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OPTOELECTRONICS D.A.T.A. BOOK®

Edition 9
9381 Types

Obsolete After November 1979
104 Manufacturers

TABLE OF CONTENTS

EDITORIAL POLICY & PROCEDURES

Purpose

This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the world in the field of OPTOELECTRONIC devices. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.

Technical Data Acquisition

D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the co-operation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products. Manufacturers listed include those with capabilities ranging from device testing and grading, to complete wafer/chip processing operations.

JEDEC Types

The electrical, optical, mechanical and environmental characteristics tabulated for the standard 1N, 2N and 4N type numbers are derived directly from the JEDEC registration releases. The particular manufacturer or manufacturers for whom such types are registered are so indicated by the use of a symbol next to their manufacturer codes in the Type No. Cross-Index. In general, the JEDEC-designated types produced by the various manufacturers, whether registered or not, do conform with the registered specifications; however, there may be exceptions, and it is recommended that the individual manufacturers be consulted.

Military Type Numbers

The electrical, optical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers Qualification Test Letters.

Substitute Types And Compatibility

This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical section, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.

Price And Availability

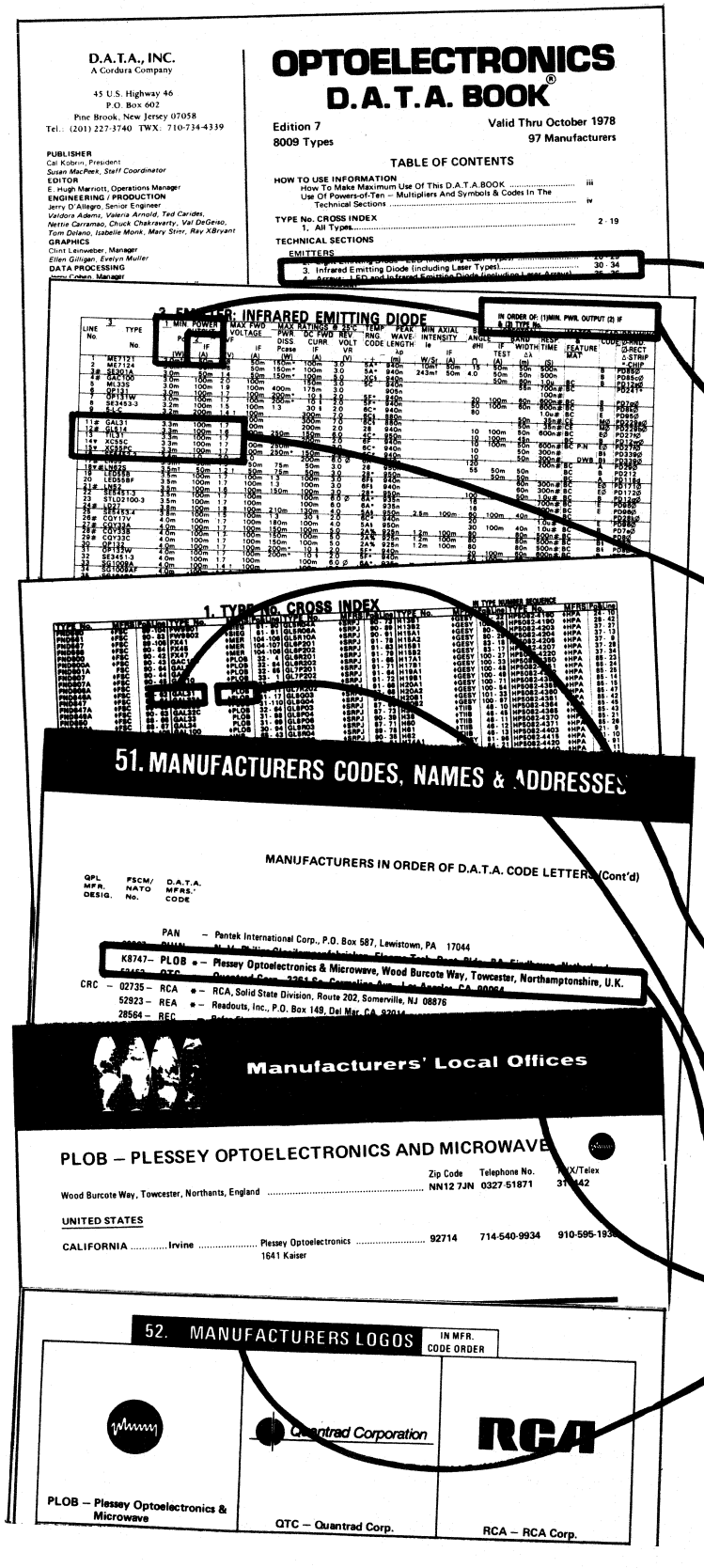
Because of the rapidly-changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.

Manufacturers' Specifications

This book includes currently-manufactured devices and devices soon-to-be available with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details.

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

Select the particular KNOWN-UNKNOWN situation that applies, and follow the instructions as indicated. Examples shown here are taken from Edition 7 of the OPTOELECTRONICS D.A.T.A.BOOK.



1. KNOWN: Electrical or Mechanical Requirements – Infrared Emitting Diode, 3.3mW Power Output, 100mA Forward Current
UNKNOWN: Suitable Type Numbers

a. Turn to the Table of Contents and select the Technical Data Section corresponding to the "known" device type; (Section 3, Infrared Emitting Diode).

b. Turn to any page in the Infrared Emitting Diode Section. Note the sequencing parameters, i.e., those characteristics for which the data are sequenced (MIN. PWR. OUTPUT first, IF second) indicated at the top right corner of the page.

c. Using the sequencing parameters, locate the type numbers that are in general agreement with your requirements. Because of the sequencing, these types will appear together; 3.3mW Po, 100mA IF types are found in this example on lines 11-15. From among these, select the one or ones most suitable.

d. To identify the manufacturers of the selected type number, follow the procedures outlined in 2.

2. KNOWN: Type Number – GAL31
UNKNOWN: Complete Manufacturer Information

a. In the Type No. Cross Index (Section 1) locate the "known" type number in this alpha-numeric sequenced section. (For example GAL31)

b. Note the 4-letter manufacturers' code(s) indicated for the "known" type. (PLOB for GAL31)

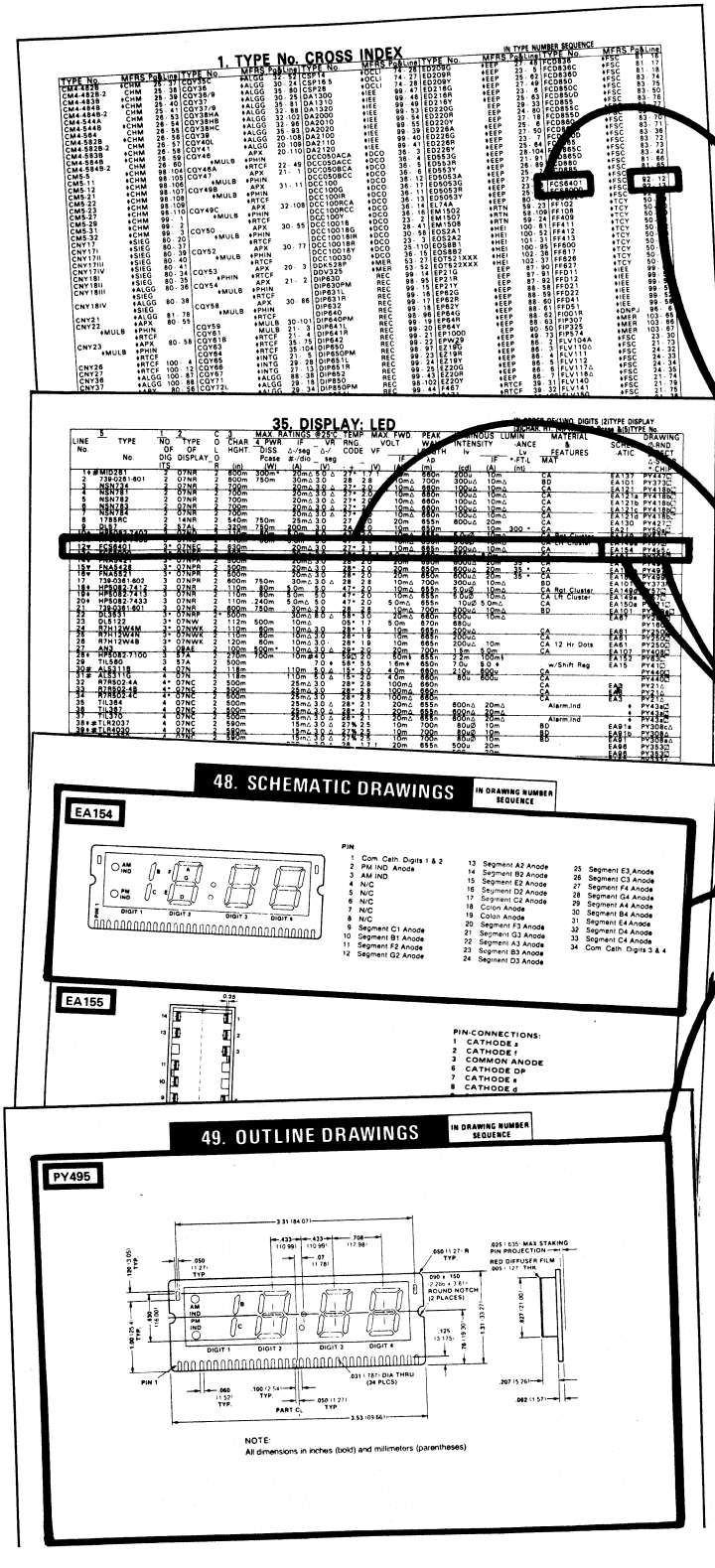
c. Turn to the Manufacturers Codes, Names and Addresses (Section 51) for complete manufacturer information. (For example: PLOB)

d. Turn to the Manufacturers Local Offices (Section 50) where full local office listings are located.

e. To locate the manufacturer's logo, turn to Section 52.

Continued on next page

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK (Cont'd)



3. KNOWN: Type Number – FCS6401
UNKNOWN: Its Electrical Characteristics and/or Schematic and Outline Drawings

a. In the Type No. Cross Index (Section 1) locate the "known" type number. (For example: FCS6401)

b. Note the one Pg. & Line number, i.e., "92-12" alongside the type number. Page 92, Line 12 indicates - Section 35, and locates FCS6401.

c. In this example the page and line number location provides full electrical characteristics for the "known" type number.

d. Note the referenced drawing numbers in the last two columns: "Schematic" (For example: EA154 for FCS6401) and "Drawing" (For example: PY495 for FCS6401)

e. Turn to the Schematic Drawings (Section 48) and Outline Drawings (Section 49) and locate the referenced drawings for your type number.

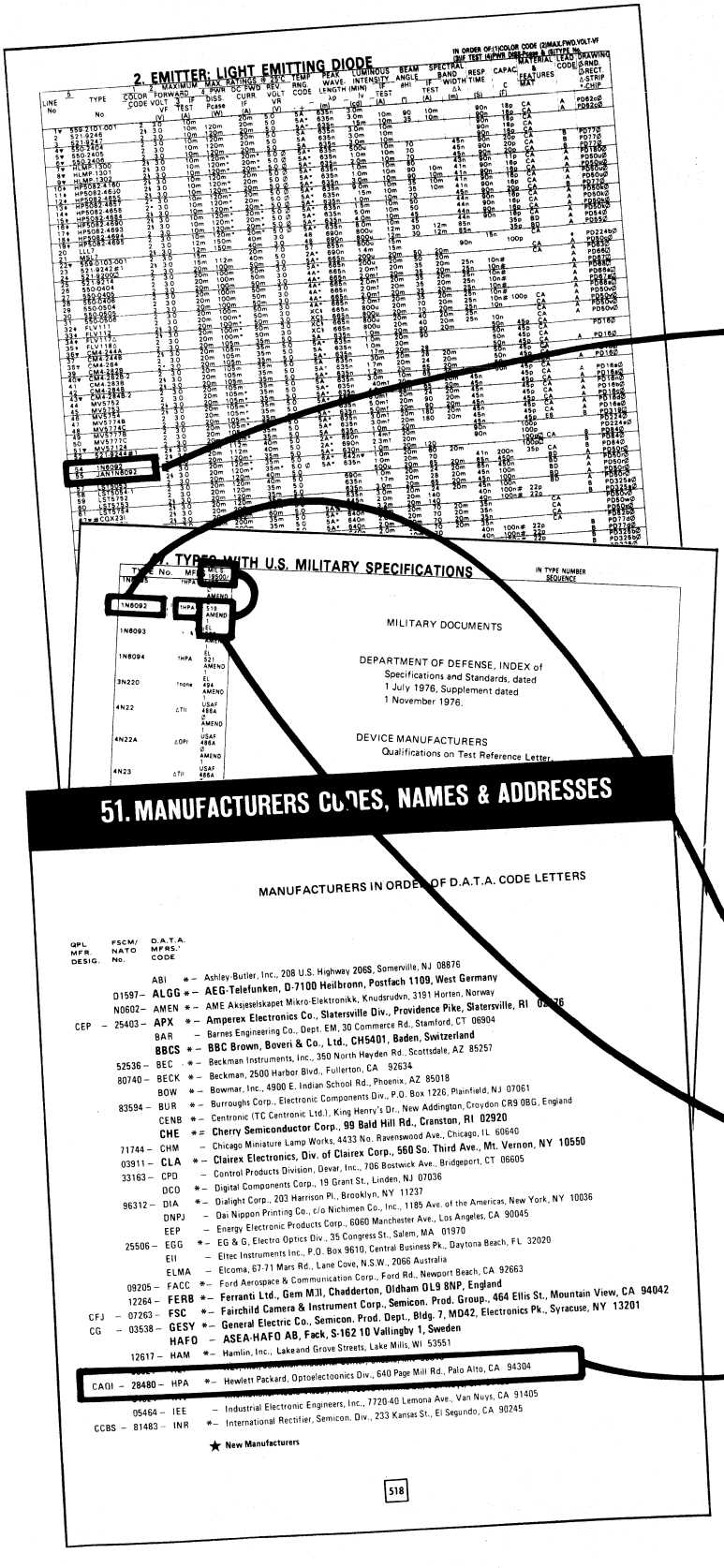
4. KNOWN: Type Number – FCS6401
UNKNOWN: Equivalent Types For Replacement

a. Locate "known" type number in Cross Index (Section 1) and follow same procedures outlined in 3.

b. Survey the type numbers with similar electrical parameters surrounding the "known" number to determine the suitable alternatives.

Continued on next page

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK (Cont'd)



5. KNOWN: Military Electrical or Mechanical Requirements -- LED, Red, 3.0V Forward Voltage at 20mA Forward Current
UNKNOWN: Suitable Type Numbers

a. Turn to the Table of Contents and select the Technical Data Section corresponding to the "known" device; (Section 2, Light Emitting Diode). To determine the general type numbers that meet the military electrical or mechanical requirements, follow the same procedures outlined in 1. From among these, select the military types by means of the identifying prefix "JAN". (For example: JAN1N6092).

b. To identify the manufacturers, follow the procedures outlined in 6.

6. KNOWN: MIlitary Type Number -- JAN1N6092
UNKNOWN: Qualified Manufacturers and/or Applicable Military Specification

a. Turn to Section 47, "Types With U.S. Military Specifications" and locate the "known" type number in this alpha-numeric sequenced section. (For example: 1N6092)

b. Note the manufacturers' code(s) and detail specification listed next to the type number. The general specification indicated on the top column headings and the detail specification next to the manufacturer's code make up the complete military specification for the "known" type number. (For example: Mfr.-HPA, MIL-S-19500/519 Amend 1 EL)

c. Use the listing of Manufacturers Codes, Names & Addresses (Section 51) to identify the manufacturer(s) and obtain complete manufacturer information. (For example: HPA)

USE OF POWERS-OF-TEN MULTIPLIERS AND SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS

PREFIXES & SYMBOLS Indicating Powers of Ten — Recommended by International Committee on Weights and Measures Adopted by National Bureau of Standards

Power	Prefix	Symbol	Power	Prefix	Symbol	Power	Prefix	Symbol
10^{12}	tera	T	10	deka	da	10^{-9}	nano	n
10^{9}	giga	G	10^{-1}	deci	d	10^{-12}	pico	p
10^{6}	mega	M	10^{-2}	centi	c	10^{-15}	femto	f
10^{3}	kilo	k	10^{-3}	milli	m	10^{-18}	atto	a
10^{2}	hecto	h	10^{-6}	micro	μ			

EXPLANATION

Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m *
10 amperes	A (amperes)	10

* May also be written as 0.5, with no multiplier

SYMBOLS & CODES

Symbols — Symbols such as #, △, and $ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

NOTE: The symbols and codes used herein are explained on the cards in back of the book.

Codes — Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A,B,C, etc.) numeric (1,2,3, etc.) or some combination of both.

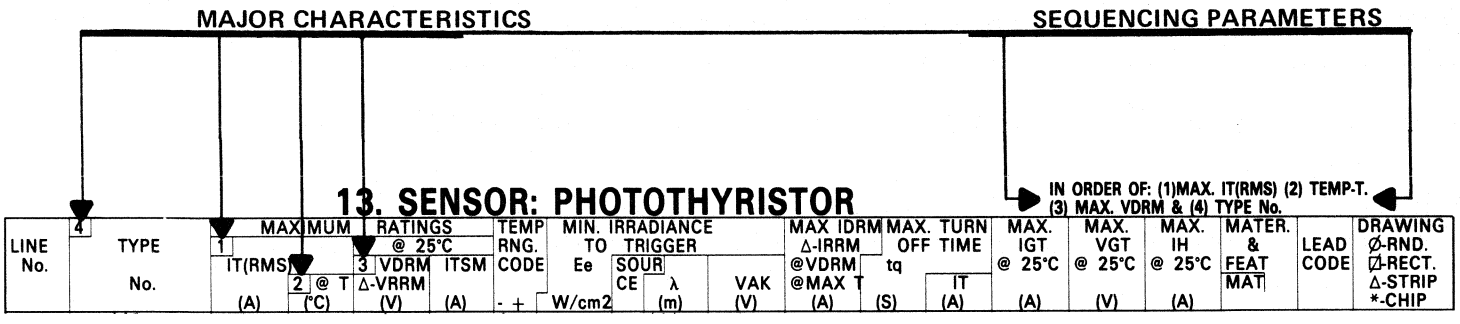
HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS INDEX

Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

	EXAMPLES
Rules: 1) Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000
2) Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	25Z150 1/4Z150 3/4M12Z 1T3
3) Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
4) Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9
5) Military prefix (JAN) is ignored in the numeric-alphabetic sequencing of type numbers. A military type number directly follows its equivalent JEDEC type number.	2N645 JAN2N645

HOW TYPE NOS. ARE ARRANGED IN THE TECHNICAL SECTION – SEQUENCING PARAMETERS

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics, or sequencing parameters, differ from one section to another, and are identified at the top corner of each page, as shown in the sample below.



The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameter. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index, as explained on the preceding page.

A simplified model of the arrangement as described is shown below.

4 Type Number	Characteristics 1 A	2 B	C	3 D
A13	100		325	
A4	100		1000	20
A9	100	A	20	25
A10	100	A	200	25
A3	100	B	40	15
A1	100	C	80	10
A8	100	C	900	15
A7	100	D	35	30
A11	110	A	60	25
A2	120	A	300	15
A5	120	B	150	20
A6	120	B	200	20
A12	120	B	475	25
	Last Seq. Par.	1st Seq. Par.	2nd Seq. Par.	(Not Seq.)	3rd Seq. Par.

Note that the absence of an entry for any sequencing parameter is regarded as a zero, and precedes any actual entries in the sequencing.

GENERAL TERMS AND DEFINITIONS

detector	A special application of light emitter and/or sensor devices where the light source may or may not be modulated in normal operation.
display	A light emitter/reflector capable of presenting numeric, alphanumeric and symbolic information.
infrared-emitting diode	A diode which emits radiant energy in the infrared region of the electromagnetic spectrum.
light-emitting diode (LED)	A diode which emits radiant energy in the visible region of the electromagnetic spectrum.
optoelectronic device	A device which responds to, emits or modifies electromagnetic radiation in the infrared, visible and/or ultraviolet regions; a device that depends on such radiation for its internal operation.
photo current	The difference between I_L (light current) and I_D (dark current) in a photosensitive device.
photodiode	A diode designed to be responsive to light.
photodiode, avalanche	A diode designed to take advantage of the avalanche multiplication of signal (photo) current.
photoconductive cell	A device designed to change its resistance as a function of light intensity.
photovoltaic cell (diode)	A photosensitive (diode) device which is designed to generate a terminal voltage in response to light.
phototransistor	A transistor designed to be responsive to light.
photodarlington	A darlington-connected transistor designed to be responsive to light.
photothyristor	A thyristor designed to be responsive to light for controlling its operation.
photocircuit	An integrated circuit which is designed to be responsive to light for controlling its specific function(s).
photocoupler (opto-isolator)	An optoelectronic device that isolates the input from the output by converting electrical energy to light and back again. Included in this volume are photocouplers with photocell, photodiode, phototransistor, photodarlington, photothyristor and photocircuit outputs.
visible light	Electromagnetic radiation characterized by wavelengths in the 0.38 to 0.78 μm region.

EXPLANATION OF CHARACTERISTICS AND RATINGS

The characteristics and ratings shown are generally for the worst case conditions. When columns do not specify Min or Max, typical conditions apply, excepted only by symbols following data entries. This allows the reader to compare and select devices whose characteristics are stated to be under comparable operating conditions. Unless otherwise noted, characteristics and ratings are measured at a temperature of 25°C.

- C.R.: contrast ratio – brightness of source minus brightness of background divided by brightness of background. Contrast ratio is a function of applied voltage in transmissive type liquid crystal displays and a function of ambient lighting in reflective type LCDs.
- E_v: illuminance; E_e: irradiance – the luminous or radiant flux density incident on a surface; quotient of flux divided by area of illuminated/ irradiated surface.
- h_F: current transfer ratio (CTR=Ic/IF) – in an LED-transistor photocoupler, it is the output transistor collector current divided by the LED forward current.
- I_D: dark current – current flow through a photosensitive device in the dark condition (off-state); representative of device leakage current.
- I_{FT}: input trigger current – emitter current necessary to trigger the coupled thyristor.
- I_L: light current – current flow through a photosensitive device in the light condition (exposed to light); representative of on-state current.
- I_v: luminous intensity; I_e: radiant intensity – the luminous or radiant flux generated per unit solid angle in a given direction.
- Lv: luminance; Le: radiance – luminous or radiant intensity in a given direction per unit of projected surface area, as viewed from that direction.
- θ HI: beam angle or half-intensity beamwidth – the angle on the optical axis within which the radiant intensity is not less than 50% of the maximum intensity.
- λ p: peak wavelength – the wavelength at which the spectral radiant intensity is a maximum.
- λ_L:to λ_H: spectral range – lowest and highest wavelength in nanometers capable of being detected by the photosensitive device.
- $\triangle\lambda$: spectral bandwidth – the wavelength interval in which the concentration of photometric/radiometric quantity is not less than 50 % of its maximum value.
- M.F.: matching factor – for arrays, the output current of a minimum channel divided by the output current of a maximum channel.
- Pcase: case power dissipation – the power dissipation resulting from the flow of all currents in a device, referenced to case temperature.
- P_D: total power dissipation – the power dissipation resulting from the flow of all currents in a device, usually assuming availability of an infinite heat sink.
- P_n, NEP: noise equivalent power – the noise equivalent power in a one-Hertz bandwidth at the detector output.
- R_{off}: dark resistance – resistance of a photconductive cell in the dark condition (off-state).
- R_{on}: light resistance – resistance of a photoconductive cell in the light condition (exposed to light).
- R_v: luminous responsivity; R_e: radiant responsivity – the rms value of the fundamental component of electrical output (voltage current) divided by the rms value of the fundamental component of the luminous or radiant flux from a specified distribution.
- S_v: luminous sensitivity; S_e: radiant sensitivity – the total value of electrical output divided by the total value of incident luminous or radiant flux from a specified distribution.
- t_R: typical response time – the general term used to describe rise times, fall times, turn-on, turn-off, decay times and any other independent specification of operational times in optoelectronic devices.

PHOTOMETRIC / RADIOMETRIC: TERMS, SYMBOLS, UNITS

PHOTOMETRIC SYSTEM

TERM		MKS			CGS			ENGLISH		
NAME	SYMBOL	NAME	SYMBOL	UNITS	NAME	SYMBOL	UNITS	NAME	SYMBOL	UNITS
Luminous Flux	Φv	Lumen	lm	lm	Lumen	lm	lm	Lumen	lm	lm
Luminous Intensity	Iv	Candela	cd	lm/sr	Candela	cd	lm/sr	Candela	cd	lm/sr
Luminance (Brightness)	Lv	Nit	nt	$lm/sr\text{-}m^2$	Stilb	sb	$lm/sr\text{-}cm^2$	Candela per $foot^2$	cd/ft^2	$lm/sr\text{-}ft^2$
	Lv	Meter-Lambert (Apostilb)	mL (asb)	π - $lm/sr\text{-}m^2$	Lambert	L	π - $lm/sr\text{-}cm^2$	Foot-Lambert	fL	π - $lm/sr\text{-}ft^2$
Illuminance (Illumination)	Ev	Lux	lx	lm/m^2	Phot	ph	lm/cm^2	Foot-Candle	fc	lm/ft^2

RADIOMETRIC SYSTEM

TERM		MKS		CGS	
NAME	SYMBOL	NAME	UNITS	NAME	UNITS
Radiant Flux	Φe	Watt	W	Watt	W
Radiant Intensity	Ie	Watt per Steradian	W/sr	Watt per Steradian	W/sr
Radiance	Le	Watt per Steradian·$meter^2$	$W/sr\text{-}m^2$	Watt per Steradian·$centimeter^2$	$W/sr\text{-}cm^2$
Irradiance	Ee	Watt per $meter^2$	W/m^2	Watt per $centimeter^2$	W/cm^2
Radiant Exitence	Me	Watt per $meter^2$	W/m^2	Watt per $centimeter^2$	W/cm^2

COMMON OPTOELECTRONIC MATERIALS

Material	Description
Cd	Cadmium
CdS	Cadmium Sulfide
CdSe	Cadmium Selenide
CdSe:CdS	Cadmium Selenide:Cadmium Sulfide
GaAs	Galium Arsenide
GaAs:Al	Galium Arsenide:Aluminum
GaAsP	Galium Arsenide Phosphide
GaAsP:N	Galium Arsenide Phosphide:Nitride
GaAs:S	Galium Arsenide:Sulfide
GaAs:Zn	Galium Arsenide:Zinc
GaP	Galium Phosphide
GaP:N	Galium Phosphide:Nitride

Material	Description
GaP:ZnO	Galium Phosphide:Zinc Oxide
GaSb	Galium Antimonide
Ge	Germanium
InAs	Indium Arsenide
InSb	Indium Antimonide
$LiTaO_3$	Lithium Tantalate
PbS	Lead Sulfide
Se	Selenium
Si	Silicon
SiC	Silicon Carbide
ZnS	Zinc Sulfide

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
18CT12	♦ABI	105 - 27
20AT40	♦ABI	107 - 79
22BH18M	♦OCLI	55 - 1
22BH18P	♦OCLI	55 - 2
22N01A	♦TSP	104-108
22N21	♦TSP	104-109
22PB18M	♦OCLI	54 - 96
22PD18M	♦OCLI	55 - 5
22PD18P	♦OCLI	55 - 6
22PH18M	♦OCLI	55 - 3
22PH18P	♦OCLI	55 - 4
23.5C01A	♦TSP	105 - 47
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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BR10250M	♦BUR	108-105	C86006E	♦RCA	39-68	CK1276	♦RTN	70-86	CL7P7HM	♦CLA	68-83	CLM3500	♦CLA	86-88
BR11470C	♦BUR	108-108	C86007E	♦RCA	40-10	CK1277	♦RTN	70-79	CL7P9L	♦CLA	68-55	CLM4006A	♦CLA	86-98
BR12250	♦BUR	108-109	C86008E	♦RCA	38-48	CK1278	♦RTN	70-54	CL9P4L	♦CLA	66-89	CLM4012A	♦CLA	86-99
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BR13251	♦BUR	108-110	CCD121HC	♦FSC	117-83	CK1281	♦RTN	69-27	CL9P5L	♦CLA	66-27	CLM6200	♦CLA	86-101
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C4101C	♦BUR	109-28	CK1112	♦RTN	86-3	CK2039	♦RTN	85-26	CL705L2	♦CLA	68-50	CM4-20%	♦CHM	25-33
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C5335-1	♦CRS	107-30	CK1113	♦RTN	86-5	CK2041	♦RTN	86-13	CL707	♦CLA	68-78	CM4-22%	♦CHM	25-35
C5335-5	♦CRS	107-31	CK1113P	♦RTN	86-6	CK2042	♦RTN	86-14	CL707H	♦CLA	68-82	CM4-23%	♦CHM	25-36
C5335-6	♦CRS	107-32	CK1114	♦RTN	85-17	CK2043	♦RTN	86-15	CL707HL	♦CLA	68-79	CM4-24	♦CHM	25-110
C6009	♦BUR	108-94	CK1115	♦RTN	85-18	CK2046	♦RTN	85-27	CL707HM	♦CLA	68-81	CM4-25	♦CHM	26-1
C30002	♦RCA	42-18	CK1116	♦RTN	85-19	CK2051	♦RTN	85-92	CL707L	♦CLA	68-75	CM4-43%	♦CHM	23-105
C30003	♦RCA	42-26	CK1117	♦RTN	85-20	CK2052	♦RTN	85-93	CL709L	♦CLA	68-52	CM4-43A	CHM	23-106
C30004	♦RCA	42-24	CK1121	♦RTN	85-80	CK2053	♦RTN	85-94	CL902	♦CLA	66-11	CM4-43B	♦CHM	24-28
C30005	♦RCA	42-36	CK1121W	♦RTN	85-21	CK2060	♦RTN	85-1	CL902L	♦CLA	66-8	CM4-73A	♦CHM	24-29
C30006	♦RCA	42-37	CK1122	♦RTN	85-81	CK2065	♦RTN	87-36	CL903	♦CLA	67-9	CM4-80B	♦CHM	25-37
C30007	♦RCA	42-46	CK1122B	♦RTN	85-82	CK2066	♦RTN	87-37	CL903A	♦CLA	67-10	CM4-81B	♦CHM	25-38
C30008	♦RCA	42-47	CK1122W	♦RTN	85-83	CK2067	♦RTN	87-38	CL903L	♦CLA	67-1	CM4-82B	♦CHM	25-39
C30009	♦RCA	42-54	CK1123	♦RTN	85-84	CK2070	♦RTN	85-28	CL903N	♦CLA	67-2	CM4-83-1	CHM	26-72
C30012	♦RCA	41-82	CK1124	♦RTN	85-85	CK2071	♦RTN	85-29	CL904	♦CLA	66-92	CM4-83-2	♦CHM	26-73
C30013	♦RCA	41-102	CK1201	♦RTN	67-59	CK2072	♦RTN	85-30	CL904L	♦CLA	66-90	CM4-83-3	♦CHM	26-74
C30038	♦RCA	42-33	CK1202	♦RTN	68-17	CK2078	♦RTN	85-95	CL904N	♦CLA	66-91	CM4-83%	♦CHM	26-75
C30041	♦RCA	42-25	CK1203	♦RTN	68-22	CK2080	♦RTN	85-31	CL905	♦CLA	66-51	CM4-84B	♦CHM	25-40
C30042	♦RCA	42-41	CK1204	♦RTN	68-100	CK2086	♦RTN	85-96	CL905HL	♦CLA	66-29	CM4-84B-0	♦CHM	26-76
C30099	♦RCA	42-5	CK1205	♦RTN	68-84	CK2095	♦RTN	85-32	CL905HLL	♦CLA	66-18	CM4-84B-1	CHM	25-41
C30116	♦RCA	38-64	CK1206	♦RTN	69-35	CK2101	♦RTN	85-33	CL905HN	♦CLA	66-30	CM4-84B-2	♦CHM	26-77
C30116F	♦RCA	38-65	CK1207	♦RTN	69-36	CK2112	♦RTN	85-34	CL905L	♦CLA	66-31	CM4-85B	♦CHM	26-78
C30119	♦RCA	38-91	CK1208	♦RTN	67-46	CK2118	♦RTN	85-35	CL905N	♦CLA	66-32	CM4-86B	♦CHM	26-79
C30121	♦RCA	93-30	CK1209	♦RTN	67-41	CK2124	♦RTN	85-36	CL907	♦CLA	66-71	CM4-244A	CHM	28-78
C30123	♦RCA	39-34	CK1210	♦RTN	67-60	CK2127	♦RTN	85-37	CL907HL	♦CLA	66-74	CM4-244B	♦CHM	28-79
C30127	♦RCA	40-91	CK1211	♦RTN	67-50	CK2129	♦RTN	87-26	CL907HN	♦CLA	66-75	CM4-264	CHM	28-80
C30130	♦RCA	41-4	CK1212	♦RTN	67-45	CK2132	♦RTN	85-97	CL907L	♦CLA	66-69	CM4-282B	♦CHM	28-81
C30133	♦RCA	38-68	CK1213	♦RTN	67-42	CK2137	♦RTN	85-98	CL907N	♦CLA	66-70	CM4-282B-2	CHM	28-82
C30801	♦RCA	45-56	CK1214	♦RTN	67-34	CK2139	♦RTN	85-99	CL909L	♦CLA	66-33	CM4-283B	♦CHM	28-83
C30802	♦RCA	45-63	CK1216	♦RTN	68-18	CK2140	♦RTN	85-38	CLA7	♦CLA	88-76	CM4-284B	♦CHM	28-84
C30805	♦RCA	45-76	CK1217	♦RTN	68-4	CK2141	♦RTN	85-39	CLA7D	♦CLA	91-30	CM4-284B-2	CHM	28-85
C30807	♦RCA	45-48	CK1218	♦RTN	68-2	CK2142	♦RTN	85-40	CLCR5590	♦CLA	60-83	CM4-344A	CHM	36-16
C30808	♦RCA	45-54	CK1219	♦RTN	67-105	CK2143	♦RTN	85-41	CLCT5320	♦CLA	59-8	CM4-344B	♦CHM	36-17
C30809	♦RCA	45-59	CK1220	♦RTN	68-36	CK2145	♦RTN	86-16	CLCT5511	♦CLA	59-9	CM4-382B	♦CHM	36-18
C30810	♦RCA	45-75	CK1221	♦RTN	67-35	CK2146	♦RTN	86-17	CLD31	CLA	73-98	CM4-382B-2	CHM	36-19
C30812	♦RCA	45-45	CK1222	♦RTN	67-36	CK2147	♦RTN	85-100	CLD41	CLA	72-96	CM4-383B	♦CHM	36-20
C30815	♦RCA	62-56	CK1223	♦RTN	67-39	CK2148	♦RTN	85-101	CLD42	CLA	73-36	CM4-384B	♦CHM	36-21
C30816	♦RCA	62-57	CK1224	♦RTN	67-51	CK2149	♦RTN	85-102	CLD56	♦CLA	73-74	CM4-384B-2	CHM	36-22
C30817	♦RCA	46-7	CK1225	♦RTN	68-76	CK2150	♦RTN	85-42	CLI2	♦CLA	88-78	CM4-444A	CHM	30-99
C30818	♦RCA	62-82	CK1226	♦RTN	67-106	CK2151	♦RTN	85-43	CLI3	♦CLA	88-79	CM4-444B	♦CHM	30-100
C30818E	♦RCA	62-51	CK1227	♦RTN	69-25	CK2153	♦RTN	85-44	CLI4	♦CLA	90-25	CM4-482B	♦CHM	30-101
C30819	♦RCA	62-83	CK1228	♦RTN	69-10	CK2154	♦RTN	85-45	CLI5	♦CLA	88-77	CM4-482B-2	CHM	30-102
C30822	♦RCA	45-58	CK1230	♦RTN	70-39	CK2155	♦RTN	85-46	CLI6	♦CLA	90-24	CM4-483B	♦CHM	30-103
C30831	♦RCA	45-49	CK1231	♦RTN	70-4	CK2157	♦RTN	85-47	CLI7	♦CLA	90-20	CM4-484B	♦CHM	30-104
C30839	♦RCA	45-43	CK1232	♦RTN	70-3	CK2160	♦RTN	86-18	CLI8	♦CLA	90-21	CM4-484B-2	CHM	30-105
C30842	♦RCA	45-61	CK1233	♦RTN	69-87	CK2161	♦RTN	86-19	CLI9	♦CLA	90-17	CM4-544A	CHM	32-101
C30843	♦RCA	117-32	CK1234	♦RTN	69-53	CK2162	♦RTN	86-20	CLI10	♦CLA	91-94	CM4-544B	♦CHM	32-102
C30844	♦RCA	117-33	CK1241	♦RTN	67-61	CK2170	♦RTN	85-48	CLI11	♦CLA	91-92	CM4-564	CHM	32-103
C30845	♦RCA	117-34	CK1242	♦RTN	68-19	CK2171	♦RTN	85-49	CLI12	♦CLA	91-90	CM4-582B	♦CHM	32-104
C30846	♦RCA	117-35	CK1243	♦RTN	68-20	CK2172	♦RTN	85-50	CLI13	♦CLA	91-88	CM4-582B-2	CHM	32-105
C30847E	♦RCA	62-52	CK1244	♦RTN	68-21	CK2173	♦RTN	85-51	CLI14	♦CLA	91-89	CM4-583B	♦CHM	32-106
C30849	♦RCA	53-4	CK1245	♦RTN	68-5	CK2177	♦RTN	86-89	CLI25	♦CLA	90-22	CM4-584B	♦CHM	32-107
C30850	♦RCA	53-5	CK1246	♦RTN	69-37	CK2178	♦RTN	86-90	CLI26	♦CLA	90-23	CM4-584B-2	CHM	32-108
C30851	♦RCA	53-6	CK1247	♦RTN	69-38	CL3P7L	♦CLA	68-74	CLI27	♦CLA	91-91	CM5-5	♦CHM	109-108
C30852	♦RCA	53-7	CK1248	♦RTN	68-73	CL5M2	♦CLA	71-2	CLI28	♦CLA	91-93	CM5-11	♦CHM	109-109
C30853	♦RCA	53-8	CK1249	♦RTN	68-3	CL5M2L	♦CLA	70-110	CLI200	♦CLA	113-98	CM5-12	♦CHM	109-110
C30854	♦RCA	53-9	CK1251	♦RTN	68-99	CL5M3	♦CLA	71-65	CLI210	♦CLA	113-52	CM5-21	♦CHM	110-1
C30872	♦RCA	46-12	CK1252	♦RTN	70-87	CL5M4	♦CLA	71-53	CLI220	♦CLA	115-1	CM5-22	♦CHM	110-2
C30884	♦RCA	46-8	CK1253	♦RTN	69-28	CL5M4L	♦CLA	71-52	CLI230	♦CLA	114-32	CM5-23	♦CHM	110-3
C30895	♦RCA	46-9	CK1254	♦RTN	70-80	CL5M5	♦CLA	71-26	CLI305	♦CLA	113-43	CM5-27	♦CHM	110-4
C30900E	♦RCA	45-55	CK1255	♦RTN	69-23	CL5M5L	♦CLA	71-19	CLI325	♦CLA	114-56	CM5-29	♦CHM	110-5
C30902E	♦RCA	46-5	CK1256	♦RTN	70-76	CL5M7	♦CLA	71-49	CLI355	♦CLA	115-2	CM5-31	♦CHM	110-6
C30904E	♦RCA	46-10	CK1257	♦RTN	69-11	CL5M9M	♦CLA	71-20	CLI375	♦CLA	113-99	CM5-32	♦CHM	110-7
C30905E	♦RCA	46-13	CK1258	♦RTN	69-54	CL5P4	♦CLA	70-84	CLI395	♦CLA	113-76	CNY17	♦SIEG	88-29
C30908E	♦RCA	46-6	CK1261	♦RTN	67-37	CL5P4L	♦CLA	70-83	CLI506	♦CLA	90-18	CNY17-1	♦LIX	88-11
C30910E	♦RCA	119-25	CK1262	♦RTN	67-38	CL5P5	♦CLA	70-64	CLI506B	♦CLA	90-19	CNY17-2	♦LIX	88-13
C30914E	♦RCA	119-26	CK1263	♦RTN	67-94	CL5P5L	♦CLA	70-63	CLM5H10A	♦CLA	85-2	CNY17-3	♦LIX	88-14
C30916E	♦RCA	46-11	CK1264	♦RTN	67-95	CL5P5M	♦CLA	70-65	CLM7H16A	♦CLA	85-3	CNY17-4	♦LIX	88-15
C30917E	♦RCA	119-27	CK1265	♦RTN	68-6	CL5P9M	♦CLA	70-66	CLM50	♦CLA	86-91	CNY17I	♦OPI	89-89
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C86003E-TS	♦RCA	119-98	CK1268	♦RTN	68-39	CL7P5	♦CLA	69-8	CLM61	♦CLA	86-94	CNY17II	♦OPI	89-90
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C86004E-TS	♦RCA	119-100	CK1273	♦RTN	70-85	CL7P5HL	♦CLA	68-53	CLM3006A	♦CLA	86-95	CNY17IIΔ	♦GESY	89-94
C86005E-RS	♦RCA	119-101	CK1274	♦RTN	70-78	CL7P5L	♦CLA	68-54	CLM3012A	♦CLA	86-96			

Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

1. TYPE No. CROSS INDEX

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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Δ-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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INRB	INRI	
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INRB	INRI	
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S0510A9PL	♦INR	75 - 79
INRB	INRI	
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S0510A10	♦INR	75 - 80
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S0510A10PL	♦INR	75 - 81
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INRB	INRI	
	INRJ	
S0510A12	♦INR	75 - 84
INRB	INRI	
	INRJ	
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INRB	INRI	
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INRB	INRI	
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INRB	INRI	
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S0510E9PL	♦INR	75 - 93
INRB	INRI	
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S0510E10PL	♦INR	75 - 95
INRB	INRI	
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INRB	INRI	
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	INRJ	
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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S0520GA6PL	♦INR INRI INRJ INRB	76 - 19
S0520GA7	♦INR INRI INRJ INRB	76 - 20
S0520GA7PL	♦INR INRI INRJ INRB	76 - 21
S0520GA8	♦INR INRI INRJ INRB	76 - 22
S0520GA8PL	♦INR INRI INRJ INRB	76 - 23
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S0520GA9PL	♦INR INRI INRJ INRB	76 - 25
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S1020GA11PL	♦INR INRI INRJ INRB	77 - 59
S1020GA12	♦INR INRI INRJ INRB	77 - 60
S1020GA12PL	♦INR INRI INRJ INRB	77 - 61
S1020GE6	♦INR INRI INRJ INRB	77 - 62
S1020GE6PL	♦INR INRI INRJ INRB	77 - 63
S1020GE7	♦INR INRI INRJ INRB	77 - 64
S1020GE7PL	♦INR INRI INRJ INRB	77 - 65
S1020GE8	♦INR INRI INRJ INRB	77 - 66
S1020GE8PL	♦INR INRI INRJ INRB	77 - 67
S1020GE9	♦INR INRI INRJ INRB	77 - 68
S1020GE9PL	♦INR INRI INRJ INRB	77 - 69
S1020GE10	♦INR INRI INRJ INRB	77 - 70
S1020GE10PL	♦INR INRI INRJ INRB	77 - 71
S1020GE11	♦INR INRI INRJ INRB	77 - 72
S1020GE11PL	♦INR INRI INRJ INRB	77 - 73
S1020GE12	♦INR INRI INRJ INRB	77 - 74
S1020GE12PL	♦INR INRI INRJ INRB	77 - 75
S2005-3	♦SAM	115 - 41
S2005-3LED	♦SAM	116 - 10
S2005-3SR	♦SAM	115 - 42
S2005-3SRLED	♦SAM	116 - 6
S2005A6	♦INR INRI INRJ INRB	77 - 76
S2005A6PL	♦INR INRI INRJ INRB	77 - 77
S2005A7	♦INR INRI INRJ INRB	77 - 78
S2005A7PL	♦INR INRI INRJ INRB	77 - 79
S2005A8	♦INR INRI INRJ INRB	77 - 80
S2005A8PL	♦INR INRI INRJ INRB	77 - 81
S2005A9	♦INR INRI INRJ INRB	77 - 82
S2005A9PL	♦INR INRI INRJ INRB	77 - 83
S2005A10	♦INR INRI INRJ INRB	77 - 84
S2005A10PL	♦INR INRI INRJ INRB	77 - 85
S2005A11	♦INR INRI INRJ INRB	77 - 86
S2005A11PL	♦INR INRI INRJ INRB	77 - 87
S2005A12	♦INR INRI INRJ INRB	77 - 88
S2005A12PL	♦INR INRI INRJ INRB	77 - 89
S2005E6	♦INR INRI INRJ INRB	77 - 90
S2005E6PL	♦INR INRI INRJ INRB	77 - 91
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(cont.)	INRB	
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S2005E7PL	♦INR	77 - 93
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S2005E8	♦INR	77 - 94
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	INRI	
	INRJ	
S2005E8PL	♦INR	77 - 95
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	INRJ	
S2005E9	♦INR	77 - 96
	INRB	
	INRI	
	INRJ	
S2005E9PL	♦INR	77 - 97
	INRB	
	INRI	
	INRJ	
S2005E10	♦INR	77 - 98
	INRB	
	INRI	
	INRJ	
S2005E10PL	♦INR	77 - 99
	INRB	
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S2005E11	♦INR	77-100
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S2005E11PL	♦INR	77-101
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S2005E12	♦INR	77-102
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S2005E12PL	♦INR	77-103
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S2005GA6	♦INR	77-104
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S2005GA6PL	♦INR	77-105
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S2005GA7	♦INR	77-106
	INRB	
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	INRJ	
S2005GA7PL	♦INR	77-107
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	INRJ	
S2005GA8	♦INR	77-108
	INRB	
	INRI	
	INRJ	
S2005GA8PL	♦INR	77-109
	INRB	
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S2005GA9	♦INR	77-110
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S2005GA9PL	♦INR	78 - 1
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S2005GA10	♦INR	78 - 2
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S2005GA10PL	♦INR	78 - 3
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S2005GA11	♦INR	78 - 4
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S2005GE9	♦INR	78 - 14
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S2005GE9PL	♦INR	78 - 15
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S2010A8PL	♦INR	78 - 27
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S2010E9PL	♦INR	78 - 43
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S2010GE9	♦INR	78 - 70
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S2010GE10	♦INR	78 - 72
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S2010GE11PL	♦INR	78 - 75
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S2010GE12	♦INR	78 - 76
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S2020A9	♦INR	78 - 84
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S2020A9PL	♦INR	78 - 85
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S2020A10	♦INR	78 - 86
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S2020A10PL	♦INR	78 - 87
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S2020A11	♦INR	78 - 88
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S2020A11PL	♦INR	78 - 89
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S2020A12	♦INR	78 - 90
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S2020A12PL	♦INR	78 - 91
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S2020E6	♦INR	78 - 92
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S2020E6PL	♦INR	78 - 93
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S2020E7	♦INR	78 - 94
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S2020E8	♦INR	78 - 96
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S2020E8PL	♦INR	78 - 97
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S2020E9	♦INR	78 - 98
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S2020E9PL	♦INR	78 - 99
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S2020E10	♦INR	78-100
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S2020E10PL	♦INR	78-101
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S2020E11	♦INR	78-102
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S2020E12	♦INR	78-104
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S2020E12PL	♦INR	78-105
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S2020GA6	♦INR	78-106
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S2020GA6PL	♦INR	78-107
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S2020GA7	♦INR	78-108
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S2020GA7PL	♦INR	78-109
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S2020GA8	♦INR	78-110
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S2020GA8PL	♦INR	79 - 1
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S2020GA9	♦INR	79 - 2
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S2020GA9PL	♦INR	79 - 3
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S2020GA10	♦INR	79 - 4
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S2020GA10PL	♦INR	79 - 5
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S2020GA11	♦INR	79 - 6
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S2020GA11PL	♦INR	79 - 7
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S2020GA12	♦INR	79 - 8
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S2020GA12PL	♦INR	79 - 9
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S2020GE6	♦INR	79 - 10
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S2020GE6PL	♦INR	79 - 11
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S2020GE7	♦INR	79 - 12
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S2020GE7PL	♦INR	79 - 13
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S2020GE8	♦INR	79 - 14
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S2020GE8PL	♦INR	79 - 15
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S2020GE9	♦INR	79 - 16
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S2020GE9PL	♦INR	79 - 17
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S2020GE10	♦INR	79 - 18
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S2020GE10PL	♦INR	79 - 19
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S2020GE11	♦INR	79 - 20
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S2020GE11PL	♦INR	79 - 21
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S2020GE12	♦INR	79 - 22
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	INRJ	
S2020GE12PL	♦INR	79 - 23
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	INRJ	
S2900E5M	♦INR	79-109
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S2900E7M	♦INR	80 - 16
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	INRJ	
S2900E9.5M	♦INR	80 - 25
	INRB	
	INRI	
	INRJ	
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S17103-F173	♦SAM	113 - 40
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S17104-F173	♦SAM	113 - 38
S17105-F172	♦SAM	113 - 41
S17105-F173	♦SAM	113 - 42
S19051	♦SAM	115 - 21
S19081	♦SAM	115 - 22
S19101	♦SAM	115 - 23
S19111	♦SAM	115 - 24
S19121	♦SAM	115 - 25
S19141	♦SAM	115 - 26
S20001	♦SAM	116 - 13
S24131	♦SAM	115 - 62
S24141	♦SAM	115 - 63
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S27111	♦SAM	115 - 48
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S27141	♦SAM	115 - 50
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S35202	♦SAM	116 - 15
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S56404	♦SAM	116 - 9
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SA609A	♦HEI	64 - 78
SA-FP1.1PbS1A		50 - 64
	♦SAI	
SA-FP1.1PbS1B		50 - 65
	♦SAI	
SA-FP1.1PbS2	♦SAI	50 - 66
SA-FP1.1PbS3	♦SAI	50 - 3
SA-FP2.2PbS1A		50 - 67
	♦SAI	
SA-FP2.2PbS2	♦SAI	50 - 68
SA-FP2.2PbS3	♦SAI	50 - 4
SA-FP3.3PbS1A		50 - 69
	♦SAI	
SA-FP3.3PbS2	♦SAI	50 - 70
SA-FP3.3PbS3	♦SAI	50 - 5
SA-FP4.4PbS1A		50 - 71
	♦SAI	
SA-FP4.4PbS2	♦SAI	50 - 72
SA-FP4.4PbS3	♦SAI	50 - 6
SA-FP5.5PbS1A		50 - 73
	♦SAI	
SA-FP5.5PbS1B		50 - 74
	♦SAI	
SA-FP5.5PbS2	♦SAI	50 - 75
SA-FP5.5PbS3	♦SAI	50 - 7
SA-FP6.6PbS1A		50 - 76
	♦SAI	
SA-FP6.6PbS2	♦SAI	50 - 77
SA-FP6.6PbS3	♦SAI	50 - 8
SA-FP8.8PbS1A		50 - 78
	♦SAI	
SA-FP8.8PbS2	♦SAI	50 - 79
SA-FP8.8PbS3	♦SAI	50 - 9
SA-FP10.10PbS1A		50 - 80
	♦SAI	
SA-FP10.10PbS2		50 - 81
	♦SAI	
SA-FP10.10PbS3		50 - 10
	♦SAI	
SA-FP11PbS1B	♦SAI	50 - 82
SA-TE1-1.1	♦SAI	52 - 85
SA-TE1-2.2	♦SAI	52 - 86
SA-TE1-3.3	♦SAI	52 - 87
SAR1-08B	♦INR	83 - 10
	INRB	INRI
		INRJ
SAR1-08BPL	♦INR	83 - 11
	INRB	INRI
		INRJ
SAR1-08PL	♦INR	83 - 12
	INRB	INRI
		INRJ
SAR1-10B	♦INR	83 - 70
	INRB	INRI
		INRJ
SAR1-10BPL	♦INR	83 - 71
	INRB	INRI
		INRJ
SAR1-10PL	♦INR	83 - 72
	INRB	INRI
		INRJ
SAR2-08B	♦INR	83 - 13
	INRB	INRI
		INRJ

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INRB	INRI	
	INRJ	
SAR2-08PL	♦INR	83 - 15
INRB	INRI	
	INRJ	
SAR2-10B	♦INR	83 - 73
INRB	INRI	
	INRJ	
SAR2-10BPL	♦INR	83 - 74
INRB	INRI	
	INRJ	
SAR2-10PL	♦INR	83 - 75
INRB	INRI	
	INRJ	
SAR3-08B	♦INR	83 - 16
INRB	INRI	
	INRJ	
SAR3-08BPL	♦INR	83 - 17
INRB	INRI	
	INRJ	
SAR3-08PL	♦INR	83 - 18
INRB	INRI	
	INRJ	
SAR3-10B	♦INR	83 - 76
INRB	INRI	
	INRJ	
SAR3-10BPL	♦INR	83 - 77
INRB	INRI	
	INRJ	
SAR3-10PL	♦INR	83 - 78
INRB	INRI	
	INRJ	
SAR4-08B	♦INR	83 - 19
INRB	INRI	
	INRJ	
SAR4-08BPL	♦INR	83 - 20
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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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△-Registered with JEDEC by this manufacturer

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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TLR307	♦TOSJ	95 - 30	VR100KB	♦VAC	72 - 48	VT301	♦VAC	68 - 62	VTA1121	♦VAC	60 - 89	VTL9A11	♦VAC	85 - 76
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TLR315	♦TOSJ	97 - 18	VRX80EB	♦VAC	72 - 50	VT303	♦VAC	68 - 69	VTA9313	♦VAC	60 - 55	VTP1112	♦VAC	53 - 76
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TLR321	♦TOSJ	100 - 97	VRX80LB	♦VAC	73-110	VT303L	♦VAC	68 - 70	VTA9322	♦VAC	60 - 61	VTP5040	♦VAC	53 - 91
TLR322	♦TOSJ	100 - 86	VRX80TB	♦VAC	72 - 52	VT304	♦VAC	68 - 71	VTA9323	♦VAC	60 - 56	VTP5041	♦VAC	53 - 59
TLR323	♦TOSJ	100 - 87	VS1LB	♦VAC	73 - 70	VT305	♦VAC	68 - 72	VTB1012	♦VAC	53 - 44	VTP5050	♦VAC	53 - 92
TLR324	♦TOSJ	101 - 16	VS2LB	♦VAC	73 - 84	VT311	♦VAC	68-103	VTB1013	♦VAC	53 - 30	VTP5051	♦VAC	53 - 63
TLR325	♦TOSJ	101 - 17	VS3LB	♦VAC	74 - 3	VT311L	♦VAC	68-104	VTB1112	♦VAC	53 - 45	VTP6060	♦VAC	53-109
TLR326	♦TOSJ	101 - 18	VS4LB	♦VAC	74 - 15	VT312	♦VAC	69 - 1	VTB1113	♦VAC	53 - 31	VTP6061	♦VAC	53 - 77
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TXEF402M006	♦TII	119 - 91	VT103L	♦VAC	69-106	VT503L	♦VAC	71 - 48	VTL3A21	♦VAC	86 - 32	VTS3011	♦VAC	79 - 55
	TIIB		VT104	♦VAC	69-107	VT511	♦VAC	71 - 63	VTL3A22	♦VAC	86 - 33	VTS3012	♦VAC	79 - 58
TXEF402M010	♦TII	119 - 92	VT111	♦VAC	70 - 40	VT511H	♦VAC	71 - 66	VTL3A23	♦VAC	86 - 34	VTS3013	♦VAC	79 - 63
	TIIB		VT111H	♦VAC	70 - 41	VT511L	♦VAC	71 - 64	VTL3A24	♦VAC	86 - 35	VTS3014	♦VAC	79 - 69
TXEF402M020	♦TII	119 - 93	VT112	♦VAC	70 - 44	VT512L	♦VAC	71 - 67	VTL3A25	♦VAC	86 - 36	VTS3018	♦VAC	79 - 78
	TIIB		VT112L	♦VAC	70 - 45	VT521	♦VAC	71 - 1	VTL3A26	♦VAC	86 - 37	VTS3020	♦VAC	79 - 81
TXEF402M030	♦TII	119 - 94	VT113	♦VAC	70 - 46	VT521H	♦VAC	71 - 3	VTL3A27	♦VAC	86 - 38	VTS3020N	♦VAC	79 - 82
	TIIB		VT113L	♦VAC	70 - 47	VT522	♦VAC	71 - 4	VTL3A31	♦VAC	86 - 39	VTS3022	♦VAC	79 - 85
TXEF402M040	♦TII	119 - 95	VT121	♦VAC	70 - 42	VT522L	♦VAC	71 - 5	VTL3A31/2	♦VAC	86 - 40	VTS3024	♦VAC	79 - 91
	TIIB		VT121H	♦VAC	70 - 43	VT523L	♦VAC	71 - 6	VTL3A32	♦VAC	86 - 41	VTS3026	♦VAC	79 - 95
TXEF402M050	♦TII	119 - 96	VT122	♦VAC	70 - 48	VT533	♦VAC	71 - 22	VTL3A32/2	♦VAC	86 - 42	VTS3028	♦VAC	80 - 12
	TIIB		VT122L	♦VAC	70 - 49	VT533L	♦VAC	71 - 23	VTL3A33	♦VAC	86 - 43	VTS3050	♦VAC	80 - 22
TXES37	♦TII	41 - 59	VT123	♦VAC	70 - 50	VT541	♦VAC	71 - 24	VTL3A33/2	♦VAC	86 - 44	VTS3060	♦VAC	81 - 4
	TIIB		VT123L	♦VAC	70 - 51	VT541H	♦VAC	71 - 25	VTL3A34	♦VAC	86 - 45	VTS3061	♦VAC	81 - 20
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	TIIB		VT133L	♦VAC	69 - 58	VT701E	♦VAC	70 - 72	VTL3A36	♦VAC	86 - 49	VTS3065	♦VAC	81 - 63
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TXES476C100	♦TII	38 - 69	VT201	♦VAC	66 - 59	VT732E	♦VAC	70 - 68	VTL3A42/2	♦VAC	86 - 56	VTS3074	♦VAC	73 - 20
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UDT600	♦UDT	62 - 30	VT203H	♦VAC	66 - 63	VT773	♦VAC	70 - 89	VTL3A44/2	♦VAC	86 - 60	VTS3080	♦VAC	75 - 18
US322-3	♦SAM	115 - 97	VT204	♦VAC	66 - 64	VT801	♦VAC	69 - 43	VTL3A45	♦VAC	86 - 61	VTS3081	♦VAC	74 - 95
US322-3-0	♦SAM	115 - 98	VT204L	♦VAC	66 - 65	VT804	♦VAC	69 - 44	VTL3A45/2	♦VAC	86 - 62	VTS3082	♦VAC	74 - 76
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UV100B	♦EGG	53 - 17	VT213L	♦VAC	67 - 7	VT841L	♦VAC	69 - 48	VTL3B29	♦VAC	86 - 70	VTS5076	♦VAC	72 - 90
UV215B	♦EGG	53 - 18	VT214	♦VAC	67 - 13	VT871	♦VAC	69 - 45	VTL3B38	♦VAC	86 - 71	VTS5078	♦VAC	72 - 99
UV250B	♦EGG	53 - 15	VT214L	♦VAC	67 - 14	VT871/2	♦VAC	69 - 46	VTL3B38/2	♦VAC	86 - 72	VTS5086	♦VAC	73 - 55
UV444B	♦EGG	53 - 21	VT221	♦VAC	67 - 8	VT901	♦VAC	67 - 74	VTL3B39	♦VAC	86 - 73	VTS5088	♦VAC	73 - 82
UV800B	♦EGG	53 - 23	VT222	♦VAC	66 - 9	VT902	♦VAC	67 - 75	VTL3B39/2	♦VAC	86 - 74	VTS6079	♦VAC	73 - 33
V131P	♦ALGG	43 - 90	VT222H	♦VAC	66 - 10	VT903H	♦VAC	67 - 76	VTL3B48	♦VAC	86 - 75	VTS6089	♦VAC	74 - 38
V168P	♦ALGG	25 - 11	VT223	♦VAC	66 - 12	VT904	♦VAC	67 - 77	VTL3B48/2	♦VAC	86 - 76	VTS7070A	♦VAC	73-103
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V170P	♦ALGG	33 - 99	VT224	♦VAC	66 - 14	VT912	♦VAC	67 - 85	VTL3B49/2	♦VAC	86 - 78	VTT1010	♦VAC	59 - 4
VB100-1	♦INR	73 - 30	VT224L	♦VAC	66 - 15	VT912L	♦VAC	67 - 86	VTL5C1	♦VAC	86 - 79	VTT1011	♦VAC	59 - 15
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VR1LB	♦VAC	74 - 22	VT235	♦VAC	66 - 52	VTA1011	♦VAC	60 - 98	VTL5C7	♦VAC	86 - 86	VTT1110	♦VAC	59 - 29
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1. TYPE No. CROSS INDEX

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2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 MAX. RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1▼	E1500	1	1.3	100m	10m	100m			890n						10n				TO18Ø
2▼	DCC10018AIR	1	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD20Ø
3▼	DCC10018LIR	1	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD419Ø
4▼	E1510	1	2.5	1.0	3.5m	100m			940n						100n				TO18Ø
5▼	E1510F	1	2.5	1.0	3.5m	100m			940n						100n				TO18Ø
6▼	E1520	1	2.5	1.0	7.0m	100m			940n						100n				TO18Ø
7▼	E1520F	1	2.5	1.0	7.0m	100m			940n						100n				TO18Ø
8▼	LLT201R	2§			100m	50m	3.0	5A		500u	20m						CA	A	PD257aØ
9▼	LLT202RT	2Δ			100m	50m	3.0	5A		1.0m	20m						CA	A	PD257aØ
10▼	LLT203R	2§			100m	50m	3.0	5A		500u	20m						CA	A	PD28tØ
11▼	LLT204RT	2Δ			100m	50m	3.0	5A		1.0m	20m						CA	A	PD28tØ
12▼	LLT205RW	2#			100m	50m	3.0	5A		500u	20m						CA	A	PD257aØ
13▼	LLT206RC	2*			100m	50m	3.0	5A		1.0m	20m						CA	A	PD257aØ
14▼	LLT207RW	2#			100m	50m	3.0	5A		500u	20m						CA	A	PD28tØ
15▼	LLT208RC	2*			100m	50m	3.0	5A		1.0m	20m						CA	A	PD28tØ
16▼	LLT211R	2§			120m	20m	5.0	5A		500u	20m						BD	A	PD257aØ
17▼	LLT212RT	2Δ			120m	20m	5.0	5A		1.0m	20m						BD	A	PD257aØ
18▼	LLT213R	2§			120m	20m	5.0	5A		500u	20m						BD	A	PD28tØ
19▼	LLT214RT	2Δ			120m	20m	5.0	5A		1.0m	20m						BD	A	PD28tØ
20▼	LLT215RW	2#			120m	20m	5.0	5A		500u	20m						BD	A	PD257aØ
21▼	LLT216RC	2*			120m	20m	5.0	5A		1.0m	20m						BD	A	PD257aØ
22▼	LLT217RW	2#			120m	20m	5.0	5A		500u	20m						BD	A	PD28tØ
23▼	LLT218RC	2*			120m	20m	5.0	5A		1.0m	20m						BD	A	PD28tØ
24▼	E1000	2	1.2	20m		50m			660n	150u					10n			A	PD16fØ
25	1920R	2	1.6 †	35m	90m	45m	3.0	26	660n	10m†	35m						CA	A	PD289Ø
26	1922R	2	1.6 †	35m	90m	45m	3.0	26	660n	10m†	35m						CA	A	PD290Ø
27#	CQY53	2	1.7	10m	125m*%	70m	3.0	48§	690n☐	115u	10m	110		20n			CA	A	PD12eØ
28	521-9181	2§	1.7 †	20m		50m			665n	2.0m†								A	PD208Ø
29	521-9223	2	1.7 †	20m		50m			665n	2.0m†								A	PD208Ø
30▼	E1010	2	1.7	20m		50m			660n	800u					10n			A	PD16fØ
31	555-2001	2§	1.7 §	20m	80m	40m	3.0	57	650n	2.0m	20m	70		20n		20p	CA	A	PD380☐
32	555-3001	2§	1.7 §	20m	80m	40m	3.0	57	650n	2.0m	20m	70		20n		20p	CA	A	PD381☐
33#	LN15BP	2§	1.7 †	30m	60m	30m	4.0	28*	660n	700u†	20m	35	20m	20n		20p§	CA		PD211
34#	LN15WP	2§	1.7 †	30m	60m	30m	4.0	28*	660n	600u†	20m	35	20m	20n		20p§	CA		PD211
35#	LN16BP	2§	1.7 †	30m	60m	30m	4.0	28*	660n	200u†	20m	15	20m	20n		20p§		♦	PD321
36#	LN25	2*	1.7 †	30m	60m*	30m	3.0	27*	660n	1.5m	20m	35	20m	20n		20p	CA	A	PD212Ø
37#	LN25D	2§	1.7 †	30m	60m*	30m	3.0	27*	660n	1.0m	20m	70	20m	20n		20p	CA	A	PD212Ø
38	HEMT-6000	2	1.8	10m	50m*	20m	5.0	5A	700n	625u	10m	16	10m	20n	70n#	65p	CANearIR	A	PD180☐
39	NSL5050	2*	1.8 †	20m	180m		5.0	4A*	660n	1.8m	20m	50		40n	50n		CA	A	PD28bØ
40	NSL5052	2*	1.8 †	20m	180m		5.0	4A*	660n	1.3m	20m	50		40n	50n		CA Red L	A	PD28bØ
41	NSL5053	2§	1.8 †	20m	180m		5.0	4A*	660n	800u	20m	65		40n	50n		CA Red L	A	PD28bØ
42	NSL5056	2§	1.8 †	20m	180m		5.0	4A*	660n	1.3m	20m	55		40n	50n		CA Red L	A	PD28bØ
43	NSL5057	2§	1.8 †	20m	180m		5.0	4A*	660n	2.0m	20m	10		40n	50n		CA Red L	A	PD28bØ
44#	GL3AR3	2	1.9	10m	80m*	40m	4.0	27*	655n	200u	10m		10m	20n		40p	CA	A	PD279Ø
45#	LN23SCP	2	1.9 †	20m	75m	25m	4.0	16	700n	700u†	10m			100n			BD	A	PD118aØ
46#	LN23SRP	2§	1.9 †	20m	75m*	25m	4.0	17*	700n	100u	10m		10m	100n			BD	A	PD118aØ
47#	LN23SWP	2§	1.9 †	20m	75m*	25m	4.0	17*	700n	100u	10m		10m	100n			BD	A	PD118aØ
48#	GL2AR1	2	1.9	20m	80m*	40m	4.0	28*	655n	120u	20m		20m	20n		40p	CA	A	PD333Ø
49#	GL3AR1	2§	1.9	20m	80m	40m	4.0	27*	655n	500u	20m		20m	20n		40p	CA	A	PD279Ø
50#	GL3AR2	2§	1.9	20m	80m	40m	4.0	27*	655n	500u	20m		20m	20n		40p	CA	A	PD279aØ
51#	SR105C	2	1.9	30m	80m*	40m	3.0	X8§	660n	4.0m†	20m			35n		50p	CA	A	PD255Ø
52#	SR105D	2§	1.9	30m	80m*	40m	3.0	X8§	660n	4.0m†	20m			35n		50p	CA	A	PD255Ø
53#	SR105W	2	1.9	30m	80m*	40m	3.0	X8§	660n	4.0m†	20m			35n		50p	CA	A	PD255Ø
54#	GL4AR2	2	1.9	30m	100m*	50m	4.0	28*	655n	700u	30m		30m	20n		40p	CA	A	PD279bØ
55#	GL5AR1	2§	1.9	30m	100m	50m	4.0	28*	655n	1.0m	30m		30m	20n		40p	CA	A	PD280Ø
56#	GL5AR2	2§	1.9	30m	100m	50m	4.0	28*	655n	1.0m	30m		30m	20n		40p	CA	A	PD280aØ
57#	GL52AR	2	1.9	30m	100m	50m	4.0	28*	655n	1.0m	30m	80					CA	A	PD218b
58#	SR101C	2	1.9	30m	100m*	50m	3.0	X8§	660n	2.0m†	30m	30		35n		100p	CA	A	PD12tØ
59#	SR102	2	1.9	30m	100m*	50m	3.0	XA§	660n	3.0m†	30m	20		35n	5.0n	100p	CA	A	PD12uØ
60#	SR103C	2*	1.9	30m	100m*	50m	3.0	X8§	660n	3.0m†	30m			35n			CA	A	PD254Ø
61#	SR103D	2§	1.9	30m	100m*	50m	3.0	X8§	660n	3.0m†	30m			35n			CA	A	PD254Ø
62#	SR103W	2	1.9	30m	100m*	50m	3.0	X8§	660n	3.0m†	30m			35n			CA	A	PD254Ø
63#	SR104D	2§	1.9	30m	100m	50m	3.0	X8§	660n	2.0m†	30m	80		35n		100p	CA	A	PD12tØ
64#	SR104DA	2§	1.9	30m	100m	50m	3.0	38%	660n	500u	30m	80	30m	35n		100p	CA	A	PD373Ø
65	MV55	2	2.0	3.0m	6.0m*	4.0m	3.0	5A*	660n	100 Ø	3.0m			20n	1.0n	20p	CA	B	PD64Ø
66	521-9195	2§	2.0	3.0m	80m	40m	3.0	5A*	650n	200u	3.0m	40	3.0m	20n	1.0n#	20p	CA	B	PD64Ø
67	547-2001	2§	2.0	3.0m	80m	40m	3.0	57	650n	2.0m	20m	70		20n		20p	CA	A	PD378☐
68	RL55	2§	2.0	3.0m	80m	40m	3.0	5A	660n	200u	3.0m			20n		20p	CA	B	PD64Ø
69#	CQY88	2	2.0	5.0m	20m*	10m	3.0	XA§	650n	500u	5.0m	50		20n		30p	CA	B	PD120bØ
70#	AL112A	2	2.0	10m		11m		67*		1.0k$	10m						CE		PD310Ø
71#	AL112B	2	2.0	10m		11m		67*		600 $	10m						CE		PD310Ø
72#	AL112D	2	2.0	10m		11m		67*		150 $	10m						CE		PD310Ø
73#	AL112E	2	2.0	10m		11m		67*		1.0k$	10m						CE		PD310Ø
74#	AL112G	2	2.0	10m		11m		67*		350 $	10m						CE		PD310Ø
75#	AL112I	2	2.0	10m		11m		67*		250 $	10m						CE		PD310Ø
76#	AL112SZ	2	2.0	10m		11m		67*		600 $	10m						CE		PD310Ø
77#	AL112V	2	2.0	10m		11m		67*		250 $	10m						CE		PD310Ø
78#	AL307	2	2.0	10m	40m	20m	2.0	67*	660n	600u	10m	20		30n			CE		
79#	GL31AR8	2*	2.0	10m	60m	30m	4.0	28*	655n	50u	10m	120	10m	20n			CA	A	PD118bØ
80	HP5082-4100	2§	2.0	10m	100m	50m	3.0 Ø	5A*	655n	700u†	10m	45		25n	15n	100p	CA	A	PD180Ø
81	HP5082-4101	2§	2.0	10m	100m	50m	3.0 Ø	5A*	655n	500u	10m	45		25n	15n	100p	CA	A	PD180Ø
82	OPL270	2§	2.0 †	10m	150m	50m	3.0			3.0m†	10m							A	PD50qØ
83	OPL1270	2§	2.0 †	10m	150m	50m	3.0			3.0m†	10m							A	PD15cØ
84	MV50152	2*	2.0	10m	180m*	100m*	5.0	5A*	660n	600u	10m	70	10m	20n		30p	CA	B	PD47aØ
85	MV50154	2§	2.0	10m	180m*	100m*	5.0	5A*	660n	400u	10m	80	10m	20n		30p	CA	B	PD47aØ
86	NSL5027Δ	2§	2.0	10m	180m		5.0	4A*	660n	2.0m	10m		10m	40n	50n		CA	A	PD89hØ
87	RL20-03	2§	2.0	20m		100m				800u	20m							B	PD50fØ
88	RL21-03	2§	2.0	20m		100m				800u	20m							B	PD16aØ
89	RL50-03	2§	2.0	20m		40m				300u	20m							A	PD81Ø
90	RL55-5	2§	2.0	20m		40m				800u	20m							B	PD64Ø
91	RL4480	2§	2.0	20m		40m				300u	20m							A	PD82Ø
92	RL4480-1	2§	2.0	20m		40m				1.0m	20m							A	PD82Ø
93	RL4480-2	2§	2.0	20m		40m				2.0m	20m							A	PD82Ø
94	RL4480-5	2§	2.0	20m		40m				800u†	20m							A	PD82Ø
95	RL5054-5	2§	2.0	20m		100m				500u	10m							A	PD83Ø
96	RLT1-04	2*	2.0	20m		40m				300u	20m							A	PD15aØ
97♦	TIL209A	2	2.0 §	20m		40m	3.0	48	630n	500u	20m						BC	♦	PD416Ø
98♦	TIL220	2§	2.0 §	20m		50m	3.0	48	650n	800u	20m						CA	♦	PD415Ø
99♦	TIL221	2*	2.0 §	20m		50m	3.0	48	650n	1.0m	20m						CA	♦	PD415Ø
100▼#	LT1203R	2§	2.0	20m	60m	20m	3.0	48	655n	300u	20m		20m	40n			CA	A	PD390Ø
101▼#	LT2201R	2§	2.0	20m	60m	20m	3.0	28	655n	400u	20m		20m	40n			CA		PD391Ø
102▼#	LT2203R	2§	2.0	20m	60m	20m	3.0	28	655n	400u	20m		20m	40n			CA		PD391aØ
103	521-9185	2*	2.0	20m	80m	40m	3.0	5A*	650n	750 Ø	20m			20n	1.0n#	90p	CA	B	PD65Ø
104	521-9186	2§	2.0	20m	80m	40m	3.0	5A*	650n	800u†	20m			20n	1.0n#	90p	CA	B	PD65Ø
105	CM4-43%	2§	2.0	20m	80m	40m	3.0	5A*	660n	300u	20m	90	20m		50n		CA	B	PD61Ø
106	CM4-43A	2	2.0	20m	80m	40m	3.0	5A	660n	300u	20m	90	20m		50n		CA		
107	ED50-01	2§	2.0	20m	80m	40m	3.0	5A		300u	20m				1.0n#	90p	CA	A	PD81Ø
108	ED50-02	2	2.0	20m	80m	40m	3.0	5A		300u	20m				1.0n#	90p	CA	A	PD81Ø
109#	LD461	2§	2.0	20m	80m	35m	3.0	48§	665n	600u	20m	100	20m	30n	5.0n#	65p	CA	B	PD146b☐
110#	LD461A	2§	2.0	20m	80m	35m	3.0	48§	665n	400u	20m	100	20m	30n	5.0n#	65p	CA	B	PD146b☐

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	MAX. RATINGS @ 25°C 4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	MV50	2§	2.0	20m	80m*	40m	5.0	5A*	660n	1.4m†	20m	80	20m	20n	50n#	80p	CA	B	PD88Ø
2	MV54	2§	2.0	20m	80m*	40m	5.0	5A*	660n	1.0m†	20m		20m	20n	50n	80p	CA	B	PD88Ø
3	RL50	2*	2.0	20m	80m	40m	3.0	5A	650n	300u	20m				1.0n	90p	CA	A	PD81Ø
4	RL50-01	2§	2.0	20m	80m	40m	3.0	5A	650n	300u	20m				1.0n	90p	CA	A	PD81Ø
5	RL54	2§	2.0	20m	80m	40m	3.0	5A		800u†	20m				1.0n	90p	CA	A	PD81Ø
6	RL209	2§	2.0	20m	80m*	40m	3.0	5A	650n	300u	20m					90p		A	PD82Ø
7	RL209Δ	2§	2.0	20m	80m	40m	3.0	5A	650n	300u	20m					90p		A	PD82Ø
8	RL209-1	2§	2.0	20m	80m*	40m	3.0	5A	650n	1.0m	20m					90p		A	PD82Ø
9	RL209-02	2*	2.0	20m	80m	40m	3.0	5A	650n	300u	20m					90p		A	PD82Ø
10	RL209-2	2§	2.0	20m	80m*	40m	3.0	5A	650n	2.0m	20m					90p		A	PD82Ø
11	RL209-04	2*	2.0	20m	80m*	40m	3.0	5A	650n	300u	20m					90p		A	PD82Ø
12	RL209A	2§	2.0	20m	80m*	40m	3.0	5A	650n	500u	20m					90p		A	PD82Ø
13	RL4484	2§	2.0 †	20m	80m	40m	3.0	5A*	650n	800u†	20m					115p		A	PD82Ø
14	RLT1	2§	2.0	20m	80m	40m	3.0	5A	650n	300u	20m					90p		A	PD15aØ
15	RLT1-02	2*	2.0	20m	80m	40m	3.0	5A	650n	300u	20m					90p		A	PD15aØ
16#	SR106C	2*	2.0	20m	80m*	40m	3.0	X8§	660n	1.5m†	20m			35n		50p	CA	A	PD256Ø
17#	SR106D	2§	2.0	20m	80m*	40m	3.0	X8§	660n	1.5m†	20m			35n		50p	CA	A	PD256Ø
18	1N5765	2	2.0	20m	85m*	50m	4.0	5A%	630nØ	500u	20m					300p☑	CA	B	PD84Ø
19	HP5082-4420	2§	2.0	20m	90m*	50m*	4.0 Ø	5A*	655n	500u	20m	60		23n	10n	200p	CA	B	PD84Ø
20#	LN21CP	2*	2.0 †	20m	90m*	20m	4.0	17*	700n	500u	15m		10m	100n			BD	A	PD215Ø
21#	LN21RCP	2*	2.0 †	20m	90m*	20m	4.0	17*	700n	500u	15m		10m	100n			BD	A	PD215Ø
22#	LN21RP	2§	2.0 †	20m	90m*	20m	4.0	17*	700n	400u	15m		10m	100n			BD	A	PD215Ø
23#	LN21WP	2§	2.0 †	20m	90m*	20m	4.0	17*	700n	400u	15m		10m	100n			BD	A	PD215Ø
24	521-9216	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	300u	20m	60			10n		CA	B	PD77eØ
25	551-0405	2§	2.0	20m	100m	50m	3.0	5A	655n	300u†	20m	60					CA	A	PD382☑
26	5082-4420	2§	2.0	20m	100m	50m	4.0 Ø	5A	655n	500u	20m	60		25n	10n	200p	CA	B	PD84Ø
27	5082-4787	2§	2.0	20m	100m	50m	4.0 Ø	5A	655n	500u	20m	60		25n	10n	200p	CA	B	PD369Ø
28	CM4-43B	2§	2.0	20m	100m	50m	5.0	5A*	660n	300u	20m	90			50n	23p	CA		PD16kØ
29	CM4-73A	2§	2.0	20m	100m	50m	5.0	5A*	660n	800u	20m	70	20m		50n	35p	CA	A	PD33aØ
30#	CQX10	2§	2.0	20m	100m%	50m	5.0	XA§	660n	3.5m	20m	50		20n		80p§	CA	A	PD231Ø
31#	CQX25	2	2.0	20m	100m*	30m	5.0	2A%	660n	1.3m	20m	30		20n		50p	CA	B	PD120cØ
32▼#	CQX25N	2	2.0	20m	100m	50m	5.0	2A%	660n	1.3m	20m	25		20n		50p§	CA	A	PD393Ø
33#	CQX35	2	2.0	20m	100m*	30m	5.0	2A%	660n	6.0m	20m	30		20n		50p	CA	B	PD232bØ
34#	CQY24A	2	2.0	20m	100m*	50m	3.0	5A%	650n	500u	20m	70		20n		60p	CA	B	PD196aØ
35#	CQY24A-I	2§	2.0	20m	100m	50m	3.0	5A%	650n	500u	20m	70		20n		60p	CA	B	PD196aØ
36#	CQY24A-II	2§	2.0	20m	100m	50m	3.0	5A%	650n	1.0m	20m	70		20n		60p	CA	B	PD196aØ
37#	CQY24A-III	2§	2.0	20m	100m	50m	3.0	5A%	650n	1.6m	20m	70		20n		60p	CA	B	PD196aØ
38▼#	CQY24B	2	2.0	20m	100m%	50m	3.0	XA§	650n	500u	20m	55		20n		60p	CA	♦	PD406
39▼#	CQY24B-I	2	2.0	20m	100m%	50m	3.0	XA§	650n	700u	20m	55		20n		60p	CA	♦	PD406
40▼#	CQY24B-II	2	2.0	20m	100m%	50m	3.0	XA§	650n	1.0m	20m	55		20n		60p	CA	♦	PD406
41▼#	CQY24B-III	2	2.0	20m	100m%	50m	3.0	XA§	650n	1.6m	20m	55		20n		60p	CA	♦	PD406
42▼#	CQY24B-IV	2	2.0	20m	100m%	50m	3.0	XA§	650n	3.0m	20m	55		20n		60p	CA	♦	PD406
43#	CQY40L	2§	2.0	20m	100m	50m	5.0	2A%	660n	800u	20m	80		20n		80p§	BC	B	PD232Ø
44#	CQY41	2	2.0	20m	100m	50m	3.0	2A%	660n	400u	20m	40		20n		130p	CA	B	PD11Ø
45▼#	CQY41N	2	2.0	20m	100m	50m	5.0	2A§	660n	800u	20m	40		20n		50p§	CA	A	PD394Ø
46#	CQY46	2	2.0	20m	100m*	50m	3.0	4A§	650n	400u	20m	100		20n			CA		PD119Ø
47#	CQY47	2	2.0	20m	100m*	50m	3.0	4A§	650n	400u	20m	100		20n			CA		PD119Ø
48#	CQY54	2§	2.0	20m	100m*%	50m	3.0	5A§	650n	900u	20m	80		20n		60p	CA	B	PD120bØ
49#	CQY61B	2	2.0	20m	100m*	50m	3.0		650n	1.5m	20m	70					CA		
50#	CQY65	2	2.0	20m	100m*	40m	3.0	4A*	650n	1.2m	20m		20m	25n	10n		CA		PD33f
51#	CQY79	2*	2.0	20m	100m	50m	3.0	XA§	650n	400u†	5.0m	140		20n			CA	M	PD228Ø
52#	CQY85	2§	2.0	20m	100m*	50m	5.0	2A%	660n	800u	20m	90		20n		80p§	CA	B	PD13cØ
53▼#	CQY85NA	2	2.0	20m	100m	50m	5.0	2A§	660n	800u	20m	60		20n		50p§	CA	A	PD393Ø
54▼#	CQY85NB	2	2.0	20m	100m	50m	5.0	2A§	660n	2.0m	20m	60		20n		50p§	CA	A	PD393Ø
55	FLV152	2	2.0	20m	100m	50m	3.0	5C§	665n	2.0m	10m						CA	A	PD50aØ
56	HP5082-4403	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	800u	20m	70			15n	200p	CA	B	PD13dØ
57	HP5082-4415	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	800u	20m	70			15n	200p	CA	B	PD80aØ
58	HP5082-4440	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	300u	20m	70			15n	200p	CA	B	PD13dØ
59	HP5082-4444	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	300u	20m	70			15n	200p	CA	B	PD80aØ
60	HP5082-4480	2§	2.0	20m	100m*	50m	3.0 Ø	5A*	655n	300u	20m	130			15n	200p	CA	B	PD77aØ
61	HP5082-4483	2§	2.0	20m	100m*	50m	3.0 Ø	5A*	655n	300u	20m	130			15n	200p	CA	B	PD77aØ
62	HP5082-4484	2§	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	800u†	20m	130			10n	100p	CA	B	PD77Ø
63	HP5082-4486	2*	2.0	20m	100m*	50m	3.0 Ø	5A*	655n	300u	20m	40			15n	200p	CA	B	PD77aØ
64	HP5082-4487	2*	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	800u†	20m	120			10n	100p	CA	B	PD13bØ
65	HP5082-4488	2*	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	800u†	20m	120			10n	100p	CA	B	PD13bØ
66	HP5082-4494	2§	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	800u	20m	130			10n	100p	CA	B	PD77Ø
67	HP5082-4790	2§	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	800u	20m	60		19n	15n	100p	CA	A	PD50kØ
68	HP5082-4791	2§	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	1.6m	20m	60		19n	15n	100p	CA	A	PD50kØ
69	HP5082-4850	2§	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	800u†	20m	100			10n	100p	CA	A	PD62Ø
70	HP5082-4855	2§	2.0	20m	100m*	50m*	3.0 Ø	5A*	655n	800u	20m	100			10n	100p	CA	A	PD62Ø
71	HP5082-4880	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	500u	20m	70			10n	200p		B	PD13Ø
72	HP5082-4881	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	1.0m	20m	70			10n	200p		B	PD13Ø
73	HP5082-4882	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	1.6m	20m	70			10n	200p		B	PD13Ø
74	HP5082-4883	2*	2.0	20m	100m	50m	3.0 Ø	5A*	655n	500u	20m	50			10n	200p		B	PD13Ø
75	HP5082-4884	2*	2.0	20m	100m	50m	3.0 Ø	5A*	655n	1.0m	20m	50			10n	200p		B	PD13Ø
76	HP5082-4885	2*	2.0	20m	100m	50m	3.0 Ø	5A*	655n	1.6m	20m	50			10n	200p		B	PD13Ø
77	HP5082-4886	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	500u	20m	60			10n	200p		B	PD13Ø
78	HP5082-4887	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	1.0m	20m	60			10n	200p		B	PD13Ø
79	HP5082-4888	2§	2.0	20m	100m	50m	3.0 Ø	5A*	655n	1.6m	20m	60			10n	200p			PD13
80▼#	LT101R	2§	2.0	20m	100m*	20m*	3.0	48	655n	500u	20m		20m	40n			CA	A	PD389Ø
81▼#	LT106RC	2*	2.0	20m	100m*	20m*	3.0	48	655n	800u	20m		20m	40n			CA	A	PD389aØ
82▼#	LT201R	2§	2.0	20m	100m*	20m*	3.0	48	655n	500u	20m		20m	40n			CA	A	PD292Ø
83▼#	LT202RT	2Δ	2.0	20m	100m*	20m*	3.0	48	655n	1.0m	20m		20m	40n			CA	A	PD292Ø
84▼#	LT203R	2§	2.0	20m	100m*	20m*	3.0	48	655n	500u	20m		20m	40n			CA	A	PD28sØ
85▼#	LT204RT	2Δ	2.0	20m	100m*	20m*	3.0	48	655n	1.0m	20m		20m	40n			CA	A	PD28sØ
86▼#	LT205RW	2#	2.0	20m	100m*	20m*	3.0	48	655n	500u	20m		20m	40n			CA	A	PD292Ø
87▼#	LT206RC	2*	2.0	20m	100m*	20m*	3.0	48	655n	1.0m	20m		20m	40n			CA	A	PD292Ø
88▼#	LT207RW	2#	2.0	20m	100m*	20m*	3.0	48	655n	500u	20m		20m	40n			CA	A	PD28sØ
89▼#	LT208RC	2*	2.0	20m	100m*	20m*	3.0	48	655n	1.0m	20m		20m	40n			CA	A	PD28sØ
90▼#	LT3201R	2§	2.0	20m	100m	20m	3.0	48	655n	400u	20m		20m	40n			CA		PD262a☑
91▼#	LT3203R	2§	2.0	20m	100m	20m	3.0	48	655n	400u	20m		20m	40n			CA		PD262b☑
92▼#	LT4201R	2§	2.0	20m	100m	20m	3.0	48	655n	800u	20m		20m	40n			CA		PD16wØ
93▼#	LT4202RT	2Δ	2.0	20m	100m	20m	3.0	48	655n	1.5m	20m		20m	40n			CA		PD16wØ
94▼#	LT4203R	2§	2.0	20m	100m	20m	3.0	48	655n	800u	20m		20m	40n			CA		PD16xØ
95▼#	LT4204RT	2Δ	2.0	20m	100m	20m	3.0	48	655n	1.5m	20m		20m	40n			CA		PD16xØ
96▼#	LT4205RW	2#	2.0	20m	100m	20m	3.0	48	655n	800u	20m		20m	40n			CA		PD16wØ
97▼#	LT4206RC	2*	2.0	20m	100m	20m	3.0	48	655n	1.5m	20m		20m	40n			CA		PD16wØ
98▼#	LT4207RW	2#	2.0	20m	100m	20m	3.0	48	655n	800u	20m		20m	40n			CA		PD16xØ
99▼#	LT4208RC	2*	2.0	20m	100m	20m	3.0	48	655n	1.5m	20m		20m	40n			CA		PD16xØ
100#	MIL31	2§	2.0	20m	100m*	70m	5.0	4A	660n	500u	20m	45	20m	40n		30p§	CA	A	PD257Ø
101#	MIL32	2*	2.0	20m	100m*	70m	5.0	4A	660n	500u	20m	40	20m	40n		30p§	CA	A	PD257Ø
102♦#	MIL38	2Δ	2.0	20m	100m*	70m	5.0	4A	660n	500u	20m	40	20m	40n		30p§	CA	A	PD257Ø
103#	MIL39	2	2.0	20m	100m*	70m	5.0	4A	660n	500u	20m	45	20m	40n		30p§	CA	A	PD257Ø
104#	MIL317	2§	2.0	20m	100m*	70m	5.0	4A	660n	2.0m	20m	45	20m	40n		30p§	CA	A	PD257Ø
105#	MIL327	2*	2.0	20m	100m*	70m	5.0	4A	660n	2.0m	20m	40	20m	40n		30p§	CA	A	PD257Ø
106♦#	MIL387	2Δ	2.0	20m	100m*	70m	5.0	4A	660n	2.0m	20m	40	20m	40n		30p§	CA	A	PD257Ø
107#	MIL397	2	2.0	20m	100m*	70m	5.0	4A	660n	2.0m	20m	45	20m	40n		30p§	CA	A	PD257Ø
108	MV5074B	2	2.0	20m	100m*	50m	5.0	5A*	660n	2.0m†	20m	70		20n		23p	CA	A	PD16rØ
109	MV5074C	2	2.0	20m	100m*	50m	5.0	5A*	660n	2.0m†	20m	70		20n		23p	CA	A	PD16sØ
110	MV5075B	2	2.0	20m	100m*	50m	5.0	5A*	660n	1.0m†	20m	90		20n		23p	CA	A	PD16rØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND WIDTH IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	MV5075C	2	2.0	20m	100m*	50m	5.0	5A*	660n	1.0m†	20m	90		20n		23p	CA	A	PD16sØ
2	MV5077B	2	2.0	20m	100m*	50m	5.0	5A*	660n	1.7m†	20m	110		20n		23p	CA	A	PD16tØ
3	MV5077C	2	2.0	20m	100m*	50m	5.0	5A*	660n	1.7m†	20m	110		20n		23p	CA	A	PD16uØ
4▼	NSL5072A	2△	2.0	20m	100m	50m	5.0	5A	660n	150u	20m	60	20m	40n	50n	75p	CA	A	PD403Ø
5▼	NSL5076A	2§	2.0	20m	100m	50m	5.0	5A	660n	150u	20m	60	20m	40n	50n	75p	CA	A	PD403aØ
6▼	NSL5077A	2§	2.0	20m	100m	50m	5.0	5A	660n	150u	20m	50	20m	40n	50n	75p	CA	A	PD403bØ
7	NSL5080	2*	2.0	20m	100m	1.0 §	3.0	4A*	660n	300u	20m	50	20m		50n		CA	B	PD77bØ
8	NSL5081	2§	2.0	20m	100m	1.0 §	3.0	4A*	660n	300u	20m	60	20m		50n		CA	B	PD77bØ
9	NSL5082	2*	2.0	20m	100m	1.0 §	3.0	4A*	660n	300u	20m	50	20m		50n		CA Red L	B	PD77bØ
10	NSL5086	2§	2.0	20m	100m	1.0 §	3.0	4A*	660n	300u	20m	60	20m		50n		CA Red L	B	PD77bØ
11#	V168P	2§	2.0	20m	100m%	50m	5.0	XA§	660n	2.0m	20m	80		20n		80p§	CA	B	PD232Ø
12	XC1170	2§	2.0	20m	100m*	50m	5.0	5A*	655n	500u	20m	70		40n	15n	200p	EA	B	PD18Ø
13	XC2090	2§	2.0	20m	100m*	50m	5.0	5A*	655n	600u	20m	70		40n	15n	200p	EA	B	PD16Ø
14	XC4850-5VR	2§	2.0	20m	100m*	20m	5.0	5A*	655n	400u		80		40n	15n	200p	EA	A	PD340Ø
15	XC5054-1	2§	2.0	20m	100m*	50m	5.0	5A*	655n	1.0m	10m	30		40n	15n	200p	EA	A	PD18aØ
16	XC5054-2	2§	2.0	20m	100m*	50m	5.0	5A*	655n	2.0m	10m	30		40n	15n	200p	EA	A	PD18aØ
17	XC5210	2§	2.0	20m	100m*	50m	5.0	5A*	655n	600u	20m	70		40n	15n	200p	EA	B	PD17Ø
18	XC5260	2§	2.0	20m	100m*	50m	5.0	5A*	655n	600u	20m	70		40n	15n	200p	EA	B	PD17Ø
19	XC5560	2§	2.0	20m	100m*	50m	5.0	5A*	655n	600u	20m	30		40n	15n	200p	EA	A	PD18aØ
20	521-9165☑	2§	2.0	20m	120m	50m	3.0	5A*	665n	2.0m†	20m	100	20m	50n	10n#		CA	A	PD50cØ
21	521-9166☑	2§	2.0	20m	120m	50m	3.0	5A*	665n	2.0m†	20m	100	20m	50n	10n#		CA	A	PD50cØ
22	521-9180	2§	2.0	20m	120m	50m	3.0	5A*	665n	2.0m†	20m	100	20m	50n	10n#		CA	A	PD15dØ
23	521-9190	2	2.0	20m	120m	50m	3.0	5A*	665n	800u	20m	100	20m	50n	10n#		CA	A	PD50cØ
24	521-9212	2§	2.0	20m	120m	50m	3.0 Ø	5A*	665n	800u	20m	100		50n				A	PD52dØ
25	549-0101	2§	2.0	20m	120m	50m	3.0	4A	655n	2.0m†	20m	70					CA	A	PD379Ø
26	FLV110△	2§	2.0	20m	120m*	50m	3.0	5C§	665n	800u	20m	70	20m	25n			CA	A	PD50vØ
27	FLV140	2§	2.0	20m	120m*	50m	3.0	5C§	665n	800u	20m	35	20m	25n			CA	A	PD50wØ
28	FLV150	2§	2.0	20m	120m*	50m	3.0	5C§	665n	800u	20m	70	20m	25n			CA	A	PD50wØ
29	FLV160	2§	2.0	20m	120m*	50m	3.0	5C§	665n	800u	20m	70	20m	25n			CA	A	PD52bØ
30	MV5094	2	2.0	20m	140m*	70m		5A*	660n	800u	20m							§	PD92Ø
31	JAN1N5765	2	2.0	20m	150m*	50m		6A§	665n	500u	20m					300p☑		B	PD84Ø
32▼#	CQX28	2	2.0	20m	150m	50m	5.0	5A%	660n	800u	20m	50		20n		80p§	CA	A	PD395Ø
33	CM4-20%	2*	2.0	20m	180m	100m	5.0	5A*	660n	600u	20m	90	20m		50n	35p	CA	A	PD28eØ
34	CM4-21	2§	2.0	20m	180m	100m	5.0	5A*	660n	400u	20m	90	20m		50n	35p	CA	A	PD28eØ
35	CM4-22%	2*	2.0	20m	180m	100m	5.0	5A*	660n	600u	20m	90	20m		50n	35p	CA	A	PD28eØ
36	CM4-23%	2§	2.0	20m	180m	100m	5.0	5A*	660n	100u	20m	180	20m		50n	35p	CA	A	PD28fØ
37	CM4-80B	2*	2.0	20m	180m	100m	5.0	5A*	660n	400u	20m	70	20m		50n	30p	CA	A	PD33dØ
38	CM4-81B	2§	2.0	20m	180m	100m	5.0	5A*	660n	300u	20m	80	20m		50n	30p	CA	A	PD33dØ
39	CM4-82B	2*	2.0	20m	180m	100m	5.0	5A*	660n	400u	20m	70	20m		50n	30p	CA	A	PD33dØ
40	CM4-84B	2§	2.0	20m	180m	100m	5.0	5A*	660n	800u	20m	80	20m		50n	30p	CA	A	PD33dØ
41	CM4-84B-1	2	2.0	20m	180m	100m	5.0	5A	660n	1.0m	20m	80	20m		50n		CA		
42	ED553R	2	2.0	20m	180m*	100m*	3.0	58§	665n	450u	30m	90		28n	5.0n#	80p	CA	A	PD28dØ
43#	MIL51	2§	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	65	20m	40n	50n	30p§	CA	A	PD258Ø
44#	MIL52	2*	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	50	20m	40n	50n	30p§	CA	A	PD258Ø
45♦#	MIL58	2△	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	50	20m	40n		30p§	CA	A	PD258Ø
46#	MIL59	2	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	65	20m	40n		30p§	CA	A	PD258Ø
47#	MIL517	2§	2.0	20m	180m*	70m	5.0	4A	660n	2.0m	20m	65	20m	40n		30p§	CA	A	PD258Ø
48#	MIL527	2*	2.0	20m	180m*	70m	5.0	4A	660n	2.0m	20m	50	20m	40n		30p§	CA	A	PD258Ø
49♦#	MIL587	2△	2.0	20m	180m*	70m	5.0	4A	660n	2.0m	20m	50	20m	40n		30p§	CA	A	PD258Ø
50#	MIL597	2	2.0	20m	180m*	70m	5.0	4A	660n	2.0m	20m	65	20m	40n		30p§	CA	A	PD258Ø
51#	MILB51	2§	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	40	20m	40n		30p§	CA	B	PD16jØ
52#	MILB52	2*	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	20	20m	40n		30p§	CA	B	PD16jØ
53♦#	MILB58	2△	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	20	20m	40n		30p§	CA	B	PD16jØ
54#	MILB59	2§	2.0	20m	180m*	70m	5.0	4A	660n	500u	20m	40	20m	40n		30p§	CA	B	PD16jØ
55▼#	MILB517	2§	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	40	20m	40n		30p§	CA		PD16z
56▼#	MILB527	2*	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	20	20m	40n		30p§	CA		PD16z
57▼#	MILB587	2△	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	20	20m	40n		30p§	CA		PD16z
58▼#	MILB597	2#	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	40	20m	40n		30p§	CA		PD16z
59#	MILS51	2§	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	65	20m	40n		30p§	CA	A	PD258aØ
60#	MILS52	2*	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	50	20m	40n		30p§	CA	A	PD258aØ
61♦#	MILS58	2△	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	50	20m	40n		30p§	CA	A	PD258aØ
62♦#	MILS59	2	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	65	20m	40n		30p§	CA	A	PD258aØ
63▼#	MILS517	2§	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	65	20m	40n		30p§	CA		PD258aØ
64▼#	MILS527	2*	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	50	20m	40n		30p§	CA		PD258aØ
65▼#	MILS587	2△	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	50	20m	40n		30p§	CA		PD258a
66▼#	MILS597	2#	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	65	20m	40n		30p§	CA		PD258a
67#	MILSB51	2§	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	40	20m	40n		30p§	CA	A	PD50nØ
68#	MILSB52	2*	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	20	20m	40n		30p§	CA	A	PD50nØ
69♦#	MILSB58	2△	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	20	20m	40n		30p§	CA	A	PD50nØ
70♦#	MILSB59	2	2.0	20m	180m*	70m	5.0 Ø	4A	660n	500u	20m	40	20m	40n		30p§	CA	A	PD50nØ
71▼#	MILSB517	2§	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	40	20m	40n		30p§	CA		PD50z
72▼#	MILSB527	2*	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	20	20m	40n		30p§	CA		PD50z
73▼#	MILSB587	2△	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	20	20m	40n		30p§	CA		PD50z
74▼#	MILSB597	2#	2.0	20m	180m*	70m	5.0 Ø	4A	660n	2.0m	20m	40	20m	40n		30p§	CA		PD50z
75	MV5020△	2*	2.0	20m	180m*	100m	5.0	5A*	660n	2.0m	20m	90	20m	20n	50n#	35p	CA	A	PD89Ø
76	MV5021	2§	2.0	20m	180m*	100m	5.0	5A*	660n	1.6m†	20m	90	20m	20n	50n#	35p	CA	A	PD89Ø
77	MV5022△	2	2.0	20m	180m*	100m	5.0	5A*	660n	1.6 †	20m	90	20m	20n	50n#	35p	CA	A	PD89Ø
78	MV5023△	2§	2.0	20m	180m*	100m	5.0	5A*	660n	1.6 †	20m	90	20m	20n	50n#	35p	CA	A	PD89Ø
79	MV5024△	2§	2.0	20m	180m*	100m	5.0	5A*	660n	3.0m†	20m	60	20m	20n	50n#	35p	CA	A	PD89aØ
80	MV5025△	2§	2.0	20m	180m*	100m	5.0	5A*	660n	400u†	20m	180	20m	20n	50n#	35p	CA	A	PD89aØ
81	MV5026△	2§	2.0	20m	180m*	100m	5.0	5A*	660n	600u†	20m	90	20m	20n	50n#	35p	CA	A	PD89aØ
82	NSL5020△	2*	2.0	20m	180m		5.0	4A*	660n	500u	20m	40	20m	40n	50n		CA	A	PD89fØ
83	NSL5022△	2*	2.0	20m	180m		5.0	4A*	660n	500u	20m	40	20m	40n	50n		CA Red L	A	PD89fØ
84	NSL5023△	2§	2.0	20m	180m		5.0	4A*	660n	500u	20m	50	20m	40n	50n		CA Red L	A	PD89fØ
85	NSL5024△	2§	2.0	20m	180m		5.0	4A*	660n	500u	20m	22	20m	40n	50n		CA Red L	A	PD89gØ
86	NSL5026△	2§	2.0	20m	180m		5.0	4A*	660n	500u	20m	30	20m	40n	50n		CA Red L	A	PD89gØ
87	NSL5040	2*	2.0	20m	180m	70m	5.0	4A*	660n	500u	20m	60	20m	40n	50n#	75p	CA	A	PD283Ø
88	NSL5041	2§	2.0	20m	180m	70m	5.0	4A*	660n	500u	20m	50	20m	40n	50n#	75p	CA	A	PD283aØ
89	NSL5042	2*	2.0	20m	180m	70m	5.0	4A*	660n	500u	20m	60	20m	40n	50n#	75p	CA	A	PD283Ø
90	NSL5043	2§	2.0	20m	180m	70m	5.0	4A*	660n	500u	20m	60	20m	40n	50n#	75p	CA	A	PD283Ø
91	NSL5046	2§	2.0	20m	180m	70m	5.0	4A*	660n	500u	20m	50	20m	40n	50n#	75p	CA	A	PD283aØ
92	NSL5058	2§	2.0	20m	180m	70m	5.0	4A*	660n	500u	20m	50	20m	40n	50n#	75p	CA	A	PD284Ø
93▼#	CQX31#1	2	2.0	20m	200m	50m	5.0	5A%	660n	800u	20m	50		20n		80p§	CA	A	PD395Ø
94▼#	CQX32#1	2	2.0	20m	200m	50m	5.0	5A%	660n	800u	20m	50		20n		80p§	CA	A	PD395Ø
95	MV5491#1	2$	2.0	20m	200m*	70m		5A	660n	1.5m	20m	60		20n			EB		PD89aØ
96	RL20	2§	2.0	20m	200m	100m	3.0	5A*	650n	800u	20m	56		40n	1.0n	115p	CA	A	PD83Ø
97	RL21	2§	2.0	20m	200m	100m	3.0	5A*	650n	800u	20m			40n	1.0n	115p	CA	A	PD83Ø
98	RL4403△	2§	2.0	20m	200m	100m	3.0	5A*	650n	800u	20m			40n		115p	CA	B	PD138Ø
99	RL4415	2	2.0	20m	200m	100m	3.0	5A*	650n	800u	20m			40n		115p	CA	B	PD175Ø
100	RL4850	2	2.0 †	20m	200m	100m	3.0	5A*	650n	800u†	20m					115p		B	PD138aØ
101#	LD30A	2§	2.0	20m	210m	100m	3.0	5A§	665n	300u	20m	70	20m	30n	5.0n#	60p	CA	B	PD77dØ
102#	LD30C	2*	2.0	20m	210m	100m	3.0	5A§	665n	300u	20m	50	20m	30n	5.0n#	60p	CA	B	PD77dØ
103#	LD30I	2§	2.0	20m	210m	100m	3.0	5A§	665n	1.0m	20m	70	20m	30n	5.0n#	60p	CA	B	PD77dØ
104#	LD30II	2§	2.0	20m	210m	100m	3.0	5A§	665n	2.0m	20m	70	20m	30n	5.0n#	60p	CA	B	PD77dØ
105#	LD41A	2	2.0	20m	210m	100m	3.0	5A§	665n	300u	20m	50	20m	30n	5.0n#	60p	CA	B	PD28hØ
106#	LD41I	2	2.0	20m	210m	100m	3.0	5A§	665n	1.0m	20m	50	20m	30n	5.0n#	60p	CA	B	PD28hØ
107#	LD41II	2	2.0	20m	210m	100m	3.0	5A§	665n	2.0m	20m	50	20m	30n	5.0n#	60p	CA	B	PD28hØ
108#	LD50I	2	2.0	20m	210m	100m	3.0	5A§	665n	2.0m	20m	24	20m	30n	5.0n#	60p	CA	B	PD28hØ
109#	LD50II	2	2.0	20m	210m	100m	3.0	5A§	665n	4.0m	20m	24	20m	30n	5.0n#	60p	CA	B	PD28hØ
110	CM4-24	2§	2.0	20m	180	100m	5.0	5A*	660n	900u	20m	60			50n	35p	CA		PD28eØ

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	MAX. RATINGS @ 25°C 4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	CM4-25	2§	2.0	20m	180	100m	5.0	5A*	660n	400u	20m	90			50n	35p	CA		PD28eØ
2#	LN22	2	2.0	25m	50m*	25m	3.0	2A*	670n	3.0kØ	20m	40	20m	20n		20p	CA	A	PD124Ø
3#	LN23	2	2.0	25m	50m*	25m	3.0	2A*	670n	1.5kØ	20m	60	20m	20n		20p	CA	A	PD124Ø
4#	LN26D	2	2.0	30m	60m	30m	3.0	28	660n	1.2m†	20m	15	20m	20n		20p	CA	A	PD222
5#	LN27CP	2*	2.0 †	30m	100m*	35m	4.0	17*	700n	500u	15m		10m	100n			BD	A	PD126Ø
6#	LN27RCP	2*	2.0 †	30m	100m*	35m	4.0	17*	700n	500u	15m		10m	100n			BD	A	PD126Ø
7#	LN27RP	2§	2.0 †	30m	100m*	35m	4.0	17*	700n	300u	15m		10m	100n			BD	A	PD126Ø
8#	LN27WP	2§	2.0 †	30m	100m*	35m	4.0	17*	700n	300u	15m		10m	100n			BD	A	PD126Ø
9	6080-002-304	2	2.0	40m			5.0			8.0m	40m	140	40m						PD226Ø
10	6080-900-304	2	2.0	40m			5.0			3.2m	40m	140	40m						PD226Ø
11	6340-002-505R	2	2.0	40m			5.0			13m	40m	140	40m				Lug		PD227Ø
12	6340-302-505R	2	2.0	40m			5.0			13m	40m	140	40m				Wire		PD227Ø
13	RL4484Δ	2§	2.0	50m	80m	40m	3.0	5A	650n	800u	20m			40n		115p	CA	A	PD82Ø
14#	CQY46A	2	2.0	50m	100m	50m	3.0		650n	800u	20m	100						B	PD196Ø
15	MV10B	2*	2.0	50m	175m*	70m	3.0	5A*	660n	800u†	10m	90		20n	50n	135p	CA	A	PD12cØ
16	RL2Δ	2§	2.0	50m	200m	100m	3.0	5A	650n	1.5m†	50m			40n		115p	CA	A	PD50eØ
17	RL2-02Δ	2*	2.0	50m	200m	100m	3.0	5A	650n	1.5m†	50m			40n		115p	CA	A	PD50eØ
18	RL20-02	2*	2.0	50m	200m	100m	3.0	5A	650n	1.2m†	20m			40n		115p	CA	A	PD50fØ
19	RL21-02	2*	2.0	50m	200m	100m	3.0	5A	650n	800u†	20m			40n		115p	CA	A	PD83Ø
20	RL2000Δ	2§	2.0	50m	200m	100m	3.0	5A	650n	2.0m	20m			40n		115p		A	PD83Ø
21	RL5054-1Δ	2§	2.0	50m	200m	100m	3.0	5A	650n	1.0m	10m			40n		35p		A	PD83Ø
22	RL5054-2Δ	2§	2.0	50m	200m	100m	3.0	5A	650n	2.0m	10m			40n		35p		A	PD83Ø
23#	LN21	2	2.0	65m	130m*	65m	3.0	2A*	670n	6.0kØ	50m	55	50m	20n		20p	CA	A	PD62aØ
24#	LN21W	2	2.0	65m	130m*	65m	3.0	2A*	670n	6.0kØ	50m	55	50m	20n		20p	CA	A	PD62aØ
25▼	E1020	2	2.0	100m		100m			660n	50m					10n	100p			TO18Ø
26	LLL3	2	2.1 †	12m	100m	30m	3.0			1.0m†	12m							A	PD54Ø
27	MSL5	2	2.1 †	12m	100m	30m	3.0			2.0m†	12m							A	PD213Ø
28	OP004-30	2§	2.1 †	15m	225m	80m	4.0			800u†	15m								
29	OP004-60	2§	2.1 †	15m	225m	80m	4.0			2.0m†	15m								
30	ORL6	2§	2.1 †	15m	225m	80m	3.0			2.0m†	15m								
31#	LN25CP	2	2.1 †	20m	70m	25m	4.0	28	700n	4.0m†	15m			100n			BD	A	PD212Ø
32#	LN25RCP	2*	2.1 †	20m	70m*	25m	4.0	28*	700n	500u	15m	35	20m	100n			BD	A	PD212Ø
33#	LN25RP	2§	2.1 †	20m	70m*	25m	4.0	28*	700n	400u	15m	70	20m	100n			BD	A	PD212Ø
34#	LN26RP	2§	2.1 †	20m	70m*	25m	4.0	28*	700n	400u	15m	15	20m	100n			BD	A	PD222☑
35#	LN28RP	2§	2.1 †	20m	70m	25m	4.0	28*	700n	1.5m†	15m		20m	100n				A	PD322
36#	LN29RP	2	2.1 †	20m	70m	25m	4.0	28	700n	1.0m†	15m			100n			BD	A	PD322aØ
37#	LN210RP	2§	2.1 †	20m	70m	25m	4.0	28*	700n	400u†	15m		20m	100n				A	PD323
38#	LN211RP	2	2.1 †	20m	70m	25m	4.0	28	700n	300u†	15m			100n			BD	A	PD361a☑
39#	LN211WP	2	2.1 †	20m	70m	25m	4.0	28	700n	400u†	15m			100n			BD	A	PD361a☑
40#	LN212RP	2	2.1 †	20m	70m	25m	4.0	28	700n	400u†	15m			100n			BD	A	PD362☑
41#	LN213RP	2	2.1 †	20m	70m	25m	4.0	28	700n	400u†	15m			100n			BD	A	PD361
42▼	AND700R	2Δ	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD392Ø
43▼	AND703R	2*	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD392Ø
44▼	AND704R	2§	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD392Ø
45▼	AND706R	2#	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD392Ø
46▼	AND710R	2Δ	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD28rØ
47▼	AND713R	2*	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD28rØ
48▼	AND714R	2§	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD28rØ
49▼	AND716R	2#	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD28rØ
50▼	AND720R	2Δ	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257cØ
51▼	AND723R	2*	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257cØ
52▼	AND724R	2§	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257cØ
53▼	AND726R	2#	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257cØ
54▼	AND740R	2Δ	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257bØ
55▼	AND743R	2*	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257bØ
56▼	AND744R	2§	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257bØ
57▼	AND746R	2#	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA		PD257bØ
58▼	AND750R	2Δ	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD16yØ
59▼	AND753R	2*	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD16yØ
60▼	AND754R	2§	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD16yØ
61▼	AND756R	2#	2.1	20m	120m*	20m	5.0	48	650n	800u†	20m		20m	20n			CA	A	PD16yØ
62	1920P	2	2.1	25m	80m	30m	3.0	26	700n	10m†	25m						BD	A	PD289Ø
63	1922P	2	2.1 †	25m	80m	30m	3.0	26	700n	10m†	25m						BD	A	PD290Ø
64	MV5054-1Δ	2§	2.2	10m	125m	100m	5.0	5A*	660n	1.0m	10m	24			50n#	35p	CA	A	PD90Ø
65	MV5054-2Δ	2§	2.2	10m	125m	100m	5.0	5A*	660n	2.0m	10m	24			50n#	35p	CA	A	PD90Ø
66	MV5054-3Δ	2§	2.2	10m	125m	100m	5.0	5A*	660n	3.0m	10m	24			50n#	35p	CA	A	PD90Ø
67	MV5050	2*	2.2	20m	125m	100m	5.0	5A*	670n	2.0m†	20m	50	20m	20n	50n#	30p	CA	A	PD16aØ
68	MV5051	2§	2.2	20m	125m	100m	5.0	5A*	670n	1.6m†	20m	72	20m	20n	50n#	30p	CA	A	PD16aØ
69	MV5052	2	2.2	20m	125m	100m	5.0	5A*	670n	2.0m†	20m	72	20m	20n	50n#	30p	CA	A	PD16aØ
70	MV5053Δ	2§	2.2	20m	125m	100m	5.0	5A*	670n	1.6m†	20m	80	20m	20n	50n#	30p	CA	A	PD16aØ
71	OPL1209	2§	2.2 †	20m	150m	50m	3.0			1.0m†	20m							A	PD15cØ
72	CM4-83-1	2	2.2	20m	180m	100m	5.0	5A	660n	1.0m	10m	24	20m		50n		CA		
73	CM4-83-2	2§	2.2	20m	180m	100m	5.0	5A*	660n	2.0m	10m	24			50n	35p	CA	A	PD90Ø
74	CM4-83-3	2§	2.2	20m	180m	100m	5.0	5A*	660n	3.0m	10m	24			50n	35p	CA	A	PD90Ø
75	CM4-83%	2§	2.2	20m	180m	100m	5.0	5A*	660n	1.0m	10m	24	20m		50n	35p	CA	B	PD90Ø
76	CM4-84B-0	2§	2.2	20m	180m	100m	5.0	5A*	660n	300u	20m	80			50n	30p	CA	A	PD16Ø
77	CM4-84B-2	2§	2.2	20m	180m	100m	5.0	5A*	660n	200u	20m	110			50n	30p	CA	A	PD16Ø
78	CM4-85B	2§	2.2	20m	180m	100m	5.0	5A*	660n	200u	20m	110			50n	30p	CA	A	PD16Ø
79	CM4-86B	2§	2.2	20m	180m	100m	5.0	5A*	660n	100u	20m	150			50n	30p	CA	A	PD16Ø
80	MV5055Δ	2§	2.2	20m	180m*	100m	5.0	5A*	670n	600u†	20m	150	20m	20n	50n#	30p	CA	A	PD16aØ
81	MV5056Δ	2§	2.2	20m	180m*	100m	5.0	5A*	670n	800u†	20m	110	20m	20n	50n#	30p	CA	A	PD16aØ
82	OPL209A	2§	2.2 †	20m	200m	70m	3.0			1.0m†	20m							A	PD50qØ
83#	GL2PR1	2	2.3	5.0m	23m*	10m	5.0	28*	695n	90u	5.0m		5.0m	100n		80p	BD	A	PD333Ø
84#	GL3PR1	2§	2.3	5.0m	23m	10m	5.0	27*	695n	500u	5.0m		5.0m	100n		80p	BD	A	PD279Ø
85#	GL3PR2	2§	2.3	5.0m	23m	10m	5.0	27*	695n	500u	5.0m		5.0m	100n		80p	BD	A	PD279aØ
86#	GL3PR3	2	2.3	5.0m	23m*	10m	5.0	27*	695n	200u	5.0m		5.0m	100n		80p	BD	A	PD279Ø
87#	GL4PR2	2	2.3	5.0m	23m*	10m	5.0	28*	695n	300u	5.0m		5.0m	100n		80p	BD	A	PD279bØ
88#	GL5PR1	2§	2.3	5.0m	23m	10m	5.0	28*	695n	500u	5.0m		5.0m	100n		80p	BD	A	PD280Ø
89#	GL5PR2	2§	2.3	5.0m	23m	10m	5.0	28*	695n	500u	5.0m		5.0m	100n		80p	BD	A	PD280aØ
90#	GL5PR5	2	2.3	5.0m	23m*	10m	5.0	28*	695n	1.1m	5.0m		5.0m	100n		80p	BD	A	PD280aØ
91#	GL5PR6	2	2.3	5.0m	23m*	10m	5.0	28*	695n	1.5m	5.0m		5.0m	100n		80p	BD	A	PD280aØ
92#	GL9PR2	2	2.3	5.0m	23m*	10m	5.0	28*	695n	150u	5.0m		5.0m	100n		80p	BD	A	PD334☑
93#	GL9PR3	2	2.3	5.0m	23m*	10m	5.0	28*	695n	150u	5.0m		5.0m	100n		80p	BD	A	PD335
94#	GL9PR4	2	2.3	5.0m	23m*	10m	5.0	28*	695n	150u	5.0m		5.0m	100n		80p	BD	A	PD336☑
95#	GL30PR8	2*	2.3	5.0m	23m	10m	5.0	28*	695n	150u	5.0m	120	5.0m	100n			BD	A	PD118bØ
96#	GL30PR	2	2.3	5.0m	23m	10m	5.0	28*	695n	150u	5.0m	140	5.0m	100n			BD	A	PD118bØ
97#	GL52RG#1	2	2.3	10m	35m	15m	5.0	28*	695n	500u	10m	60	10m	100n			BD	M	PD220Ø
98	DCC10018	2	2.3	10m	80m*	30m	3.0	58*	690n	1.0kØ	10m	180	10m	50n	50n#	80p	BC	A	PD20Ø
99▼	DCC10018AR	2	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD20Ø
100▼	DCC10018LR	2	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD419Ø
101	XC02	2	2.4	10m	90m*	40m	5.0	58*	697n			45		95n	500n#		BD	A	PD16Ø
102	ED209R	2	2.4	10m	100m*	50m*	5.0	5A§	695n	600u	10m	75				50p	BD	A	PD16Ø
103	ED216R	2	2.4	10m	100m*	50m*	5.0	5A§	695n	600u	10m	65				50p	BD	A	PD17Ø
104	ED226R	2	2.4	10m	100m*	50m*	5.0	5A§	695n	600u	10m	80				50p	BD	A	PD19Ø
105	ED5053R	2	2.4	10m	100m*	50m*	5.0	5A§	695n	400u	10m	80				50p	BD	A	PD18aØ
106	XC110RWC	2	2.4	10m	100m*	40m	5.0	58*	697n					95n	500n		BD	A	PD18Ø
107	XC554RWC	2	2.4	10m	100m*	40m	5.0	58*	697n			24		95n	500n#			A	PD18aØ
108	NSL5020%	2	2.4	10m	120m	50m	5.0	5A	697n	250u	10m	65					BD	A	PD17Ø
109	NSL5022%	2	2.4	10m	120m	50m	5.0	5A	697n	250u	10m	65					BD	A	PD17Ø
110	NSL5023%	2	2.4	10m	120m	50m	5.0	5A	697n	250u	10m	80					BD	A	PD17Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	NSL5024%	2	2.4	10m	120m	50m	5.0	5A	697n	250u	10m	80					BD	A	PD17Ø
2	NSL5026%	2	2.4	10m	120m	50m	5.0	5A	697n	250u	10m	80					BD	A	PD17Ø
3	NSL5027%	2	2.4	10m	120m	50m	5.0	5A	697n	2.0m	10m	14					BD	A	PD17Ø
4	XC01	2	2.4	10m	150m*	50m	5.0	4A*	697n			80		95n	500n#		BD	A	PD338Ø
5#	LD32C	2*	2.4	20m		60m			645n	2.5m	10m	50						B	PD77dØ
6#	LD121II	2*	2.4	20m		25m			645n	500u	10m	70						A	PD354☑
7#	LD121II	2*	2.4	20m		25m			645n	800u	10m	70						A	PD354☑
8	CSL300L	2§	2.4 †	25m	225m	80m				2.0mt	25m						BD	A	PD33cØ
9	CSL310L#1	2*	2.4 †	25m	225m	80m				2.0mt	25m						BD	A	PD33cØ
10#	GPL2	2	2.5	10m		25m	6.0	X6*	700n	2.4m§	10m			90n	300n#	225p	BD		PD7kØ
11#	GPL100	2	2.5	10m		50m	6.0	X7☑	650n						300n#	72p	BD	B	PD245Ø
12#	GPL101	2§	2.5	10m		50m	6.0	X7☑	650n						300n#	72p	BD	B	PD245Ø
13#	GPL102	2	2.5	10m		50m	6.0	X7☑	650n	2.3mt	10m				300n#	72p	BD	B	PD245Ø
14	HEMT-3300	2	2.5	10m	120m*	30m	5.0	5A	670n	4.4m	10m	22	10m	42n	120n#	15p	CANearIR		PD16fØ
15#	SG204D	2§	2.5	20m	100m*	50m	4.0	X8§	565n	3.0mt	20m	70		30n		60p	BD	A	PD12tØ
16▼	L39UR-R2-2111	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD398aØ
17▼	L39UR-R2-2311	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD398Ø
18▼	L45RN-R2-2111	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399aØ
19▼	L45RN-R2-2311	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399Ø
20▼	L46RN-R2-2111	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399cØ
21▼	L46RN-R2-2311	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399bØ
22▼	L58-R2-T	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD400Ø
23▼	L58-R2-W	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD400aØ
24▼	L59-R2-T	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD401Ø
25▼	L59-R2-W	2	2.5	35m	100m	35m	5.0	5A		3.0mt									PD401aØ
26	FLV104A	2	2.5	100m	200m*	100m	3.0	5C*	670n	50m	100m	4.3	100m	20n	10n#	100p	CA	B	PD47Ø
27	AND121R	2Δ	2.6	15m	60m*	15m	4.0	57*	700n	100u	10m	50	10m	100n			BD	A	PD331☑
28	AND122R	2*	2.6	15m	60m*	15m	4.0	57*	700n	100u	10m	50	10m	100n			BD	A	PD331☑
29#	TLR121	2*	2.6	15m	60m*	15m	4.0	27*	700n	100u	10m		10m	100n			BD	A	PD331☑
30	AND101RG#1	2§	2.6	20m	75m*	25m	4.0	57*	700n	300u	20m	180	20m	100n			BD	♦	PD332Ø
31	AND202R	2Δ	2.6	20m	75m*	25m	4.0	57*	700n	100u	10m	200	10m	100n			BD	A	PD330Ø
32#	TLR102	2§	2.6	20m	75m*	25m	4.0	27*	700n	100u	10m	220	10m	100n	1.0n☑		BD	A	PD118aØ
33#	TLR102KB	2§	2.6	20m	75m*	25m	4.0	27*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
34#	TLR102KW	2§	2.6	20m	75m*	25m	4.0	27*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
35#	TLR108	2*	2.6	20m	75m*	25m	4.0	27*	700n	150u	10m	220	10m	100n	1.0n☑		BD	A	PD118aØ
36#	TLR108KB	2Δ	2.6	20m	75m*	25m	4.0	27*	700n	150u	10m	200	10m	100n			BD	A	PD359Ø
37#	TLR108KW	2Δ	2.6	20m	75m*	25m	4.0	27*	700n	150u	10m	200	10m	100n			BD	A	PD359Ø
38#	TLR109	2§	2.6	20m	75m*	25m	4.0	27*	700n	100u	10m	220	10m	100n	1.0n☑		BD	A	PD118aØ
39#	TLR109KB	2#	2.6	20m	75m*	25m	4.0	27*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
40#	TLR109KW	2#	2.6	20m	75m*	25m	4.0	27*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
41#	TLR202	2*	2.6	20m	75m*	25m	4.0	27*	700n	100u	10m		10m	100n			BD	A	PD330☑
42#	TLRG101#1	2§	2.6	20m	75m*	25m	4.0	27*	700n	300u	20m	180	20m	100n			BD	♦	PD332Ø
43	XC4850R	2§	2.8	10m			3.0 Ø		635n	600u	10m	80		40n	100n	50p	EA	♦	PD340Ø
44	XC110	2§	2.8	10m	100m	40m	5.0	5A	697n	400u	10m	75				50p	BD	A	PD18Ø
45	XC110R	2§	2.8	10m	100m*	40m	5.0	5A*	697n	500u	10m	75		95n	500n	50p	BD	A	PD18Ø
46	XC111	2*	2.8	10m	100m	40m	5.0	5A	697n	400u	10m	45				50p	BD	A	PD18Ø
47	XC111R	2*	2.8	10m	100m*	40m	5.0	5A*	697n	500u	10m	45		95n	500n	50p	BD	A	PD18Ø
48	XC209R	2§	2.8	10m	100m*	40m	5.0	5A*	697n	600u	10m	75		95n	500n	50p	BD	A	PD16Ø
49	XC520R	2*	2.8	10m	100m*	40m	5.0	5A*	697n	1.0m	10m	55		95n	500n	50p	BD	A	PD17Ø
50	XC521R	2§	2.8	10m	100m*	40m	5.0	5A*	697n	500u	10m	70		95n	500n	50p	BD	A	PD17Ø
51	XC522R	2*	2.8	10m	100m*	40m	5.0	5A*	697n	1.0m	10m	55		95n	500n	50p	BD	A	PD17Ø
52	XC526R2	2§	2.8	10m	100m*	40m	5.0	5A*	697n	2.0m	10m	70		95n	500n	50p	BD	A	PD17Ø
53	XC526R	2§	2.8	10m	100m*	40m	5.0	5A*	697n	500u	10m	70		95n	500n	50p	BD	A	PD17Ø
54	XC554R9	2*	2.8	10m	100m*	40m	5.0	5A*	697n	9.0m	10m	24		95n	500n	50p	BD	A	PD18aØ
55	XC554R12	2*	2.8	10m	100m*	40m	5.0	5A*	697n	12m	10m	24		95n	500n	50p	BD	A	PD18aØ
56	XC554R	2*	2.8	10m	100m*	40m	5.0	5A*	697n	2.0m	10m	24		95n	500n	50p	BD	A	PD18aØ
57	XC556R2	2§	2.8	10m	100m*	40m	5.0	5A*	697n	2.0m	10m	30		95n	500n	50p	BD	A	PD18aØ
58	XC556R3	2§	2.8	10m	100m*	40m	5.0	5A*	697n	3.0m	10m	30		95n	500n	50p	BD	A	PD18aØ
59	XC556R	2§	2.8	10m	100m*	40m	5.0	5A*	697n	600u	10m	30		95n	500n	50p	BD	A	PD18aØ
60	XC5053-5VR	2§	2.8	10m	100m*	20m	5.0	5A*	697n	1.5m	10m	80		95n	500n	50p	BD	A	PD18aØ
61	XC5053R2	2§	2.8	10m	100m*	20m	5.0	5A*	697n	1.5m	10m	80		95n	500n	50p	BD	A	PD18aØ
62	XC5053R	2§	2.8	10m	100m*	20m	5.0	5A*	697n	400u	10m	80		95n	500n	50p	BD	A	PD18aØ
63	XC5055	2§	2.8	10m	100m	40m	5.0	5A	697n	300u	10m	120				10p	BD	A	PD18aØ
64	XC5055R	2	2.8	10m	100m*	40m	5.0	5A*	697n	300u	10m	120		95n	500n	50p	BD	A	PD18aØ
65	XC309R2	2§	2.8	10m	115m*	40m	5.0	5A*	635n	2.0m	10m	75		40n	100n	50p	EB	A	PD16Ø
66	XC309R	2§	2.8	10m	115m*	40m	5.0	5A*	635n	1.0m	10m	75		40n	100n	50p	EB	A	PD16Ø
67	XC4651R	2§	2.8	10m	115m*	40m	5.0	5A*	635n	1.0m	10m	80		40n	100n	50p	EB	A	PD340Ø
68	XC4656R3	2§	2.8	10m	115m*	40m	5.0	5A*	635n	3.0m	10m	80		40n	100n	50p	EB	A	PD340Ø
69▼	AND205R	2	2.8	20m	56m	20m	4.0	27	700n	400u	15m		15m	100n			BD	A	PD383☑
70	AND123R	2*	2.8	20m	60m*	20m	4.0	57*	700n	500u	20m	40	20m	100n			BD	A	PD279cØ
71	AND124R	2§	2.8	20m	60m*	20m	4.0	57*	700n	400u	20m	50	20m	100n			BD	A	PD279cØ
72▼#	LT1213R	2§	2.8	20m	70m	20m	5.0	48	697n	300u	20m		20m	90n			BD	A	PD390Ø
73	AND102R	2§	2.8	20m	75m*	25m	4.0	57*	700n	100u	10m	200	10m	100n			BD	A	PD118aØ
74	AND102RKB	2§	2.8	20m	75m*	25m	4.0	57*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
75	AND102RKW	2§	2.8	20m	75m*	25m	4.0	57*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
76	AND108R	2Δ	2.8	20m	75m*	25m	4.0	57*	700n	150u	10m	200	10m	100n			BD	A	PD118aØ
77	AND108RKB	2Δ	2.8	20m	75m*	25m	4.0	57*	700n	150u	10m	200	10m	100n			BD	A	PD359Ø
78	AND108RKW	2Δ	2.8	20m	75m*	25m	4.0	57*	700n	150u	10m	200	10m	100n			BD	A	PD359Ø
79	AND109R	2#	2.8	20m	75m*	25m	4.0	57*	700n	100u	10m	200	10m	100n			BD	A	PD118aØ
80	AND109RKB	2#	2.8	20m	75m*	25m	4.0	57*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
81	AND109RKW	2#	2.8	20m	75m*	25m	4.0	57*	700n	100u	10m	200	10m	100n			BD	A	PD359Ø
82▼#	LT2211R	2§	2.8	20m	75m	30m	5.0	28	697n	400u	20m		20m	90n			BD		PD391Ø
83▼#	LT2213R	2§	2.8	20m	75m	30m	5.0	28	697n	400u	20m		20m	90n			BD		PD391aØ
84	AND113R	2*	2.8	20m	90m*	20m	4.0	57*	700n	500u	15m	50	20m	100n			BD	A	PD215Ø
85	AND114R	2§	2.8	20m	90m*	20m	4.0	57*	700n	400u	15m	80	20m	100n			BD	A	PD215Ø
86	AND115R	2*	2.8	20m	90m*	20m	4.0	57*	700n	500u	15m	45	20m	100n			BD	A	PD215aØ
87	AND116R	2#	2.8	20m	90m*	20m	4.0	57*	700n	400u	15m	80	20m	100n			BD	A	PD215Ø
88	AND120R	2Δ	2.8	20m	90m*	20m	4.0	57*	700n	500u	15m	50	20m	100n			BD	A	PD215Ø
89#	TLR113	2	2.8	20m	90m*	20m	4.0	27*	700n	3.5mt	15m			100n			BD	A	PD215Ø
90#	TLR114	2	2.8	20m	90m*	20m	4.0	27*	700n	1.5mt	15m			100n			BD	A	PD215Ø
91#	TLR115	2	2.8	20m	90m*	20m	4.0	27*	700n	3.0mt	15m			100n			BD	A	PD215aØ
92#	TLR116	2	2.8	20m	90m*	20m	4.0	27*	700n	1.8mt	15m			100n			BD	A	PD215Ø
93#	TLR120	2*	2.8	20m	90m*	20m	4.0	27*	700n	4.0mt	15m			100n			BD	A	PD215Ø
94▼#	LT4221R	2§	2.8	20m	105m	20m	5.0	48	635n	2.0m	20m		20m	45n			EB		PD16wØ
95▼#	LT4222RT	2Δ	2.8	20m	105m	20m	5.0	48	635n	2.5m	20m		20m	45n			EB		PD16wØ
96▼#	LT4223R	2§	2.8	20m	105m	20m	5.0	48	635n	2.0m	20m		20m	45n			EB		PD16xØ
97▼#	LT4224RT	2Δ	2.8	20m	105m	20m	5.0	48	635n	2.5m	20m		20m	45n			EB		PD16xØ
98▼	LST4053F	2§	2.8	20m	120m	40m	5.0m	5A	690n	200u	5.0m	80	5.0m	85n			BD	A	PD404Ø
99▼#	LT111R	2§	2.8	20m	120m*	20m*	5.0	48	697n	500u	20m		20m	90n			BD	A	PD389Ø
100▼#	LT116RC	2*	2.8	20m	120m*	20m*	5.0	48	697n	800u	20m		20m	90n			BD	A	PD389aØ
101▼#	LT211R	2§	2.8	20m	120m*	20m*	5.0	48	697n	500u	20m		20m	90n			BD	A	PD292Ø
102▼#	LT212RT	2Δ	2.8	20m	120m*	20m*	5.0	48	697n	1.0m	20m		20m	90n			BD	A	PD292Ø
103▼#	LT213R	2§	2.8	20m	120m*	20m*	5.0	48	697n	500u	20m		20m	90n			BD	A	PD28sØ
104▼#	LT214RT	2Δ	2.8	20m	120m*	20m*	5.0	48	697n	1.0m	20m		20m	90n			BD	A	PD28sØ
105▼#	LT215RW	2#	2.8	20m	120m*	20m*	5.0	48	697n	500u	20m		20m	90n			BD	A	PD292Ø
106▼#	LT216RC	2*	2.8	20m	120m*	20m*	5.0	48	697n	1.0m	20m		20m	90n			BD	A	PD292Ø
107▼#	LT217RW	2#	2.8	20m	120m*	20m*	5.0	48	697n	500u	20m		20m	90n			BD	A	PD28sØ
108▼#	LT218RC	2*	2.8	20m	120m*	20m*	5.0	48	697n	1.0m	20m		20m	90n			BD	A	PD28sØ
109▼#	LT3211R	2§	2.8	20m	120m	20m	5.0	48	697n	800u	20m		20m	90n			BD		PD262a☑
110▼#	LT3213R	2§	2.8	20m	120m	20m	5.0	48	697n	800u	20m		20m	90n			BD		PD262b☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 MAX. RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1▼#	LT4211R	2§	2.8	20m	120m	20m	5.0	48	697n	800u	20m		20m	90n			BD		PD16wØ
2▼#	LT4212RT	2△	2.8	20m	120m	20m	5.0	48	697n	1.5m	20m		20m	90n			BD		PD16wØ
3▼#	LT4213R	2§	2.8	20m	120m	20m	5.0	48	697n	800u	20m		20m	90n			BD		PD16xØ
4▼#	LT4214RT	2△	2.8	20m	120m	20m	5.0	48	697n	1.5m	20m		20m	90n			BD		PD16xØ
5▼#	LT4215RW	2#	2.8	20m	120m	20m	5.0	48	697n	800u	20m		20m	90n			BD		PD16wØ
6▼#	LT4216RC	2*	2.8	20m	120m	20m	5.0	48	697n	1.5m	20m		20m	90n			BD		PD16wØ
7▼#	LT4217RW	2#	2.8	20m	120m	20m	5.0	48	697n	800u	20m		20m	90n			BD		PD16xØ
8▼#	LT4218RC	2*	2.8	20m	120m	20m	5.0	48	697n	1.5m	20m		20m	90n			BD		PD16xØ
9▼	AND101R	2§	2.8	30m	100m*	35m	3.0	27*	700n	150u	15m	220	10m	100n			BD	A	PD373aØ
10	AND103R	2*	2.8	30m	100m*	35m	4.0	57*	700n	500u	15m	50	10m	100n			BD	A	PD126Ø
11	AND103RK	2*	2.8	30m	100m*	35m	4.0	57*	700n	500u	15m	50	10m	100n			BD	A	PD328Ø
12	AND104R	2§	2.8	30m	100m*	35m	4.0	57*	700n	300u	15m	60	10m	100n			BD	A	PD126Ø
13	AND104RK	2§	2.8	30m	100m*	35m	4.0	57*	700n	300u	15m	60	10m	100n			BD	A	PD328Ø
14	AND105R	2*	2.8	30m	100m*	35m	4.0	57*	700n	500u	15m	60	10m	100n			BD	A	PD127Ø
15	AND105RK	2*	2.8	30m	100m*	35m	4.0	57*	700n	500u	15m	60	10m	100n			BD	A	PD327Ø
16	AND106R	2#	2.8	30m	100m*	35m	4.0	57*	700n	300u	15m	60	10m	100n			BD	A	PD126Ø
17	AND106RK	2#	2.8	30m	100m*	35m	4.0	57*	700n	300u	15m	60	10m	100n			BD	A	PD328Ø
18	AND107R	2*	2.8	30m	100m*	35m	4.0	57*	700n	300u	15m	75	10m	100n			BD	A	PD128Ø
19	AND107RK	2*	2.8	30m	100m*	35m	4.0	57*	700n	300u	15m	75	10m	100n			BD	A	PD329Ø
20	AND110R	2△	2.8	30m	100m*	35m	4.0	57*	700n	500u	15m	50	10m	100n			BD	A	PD126Ø
21	AND110RK	2△	2.8	30m	100m*	35m	4.0	57*	700n	500u	15m	50	10m	100n			BD	A	PD328Ø
22#	TLR101	2§	2.8	30m	100m*	35m	3.0	27*	700n	150u	15m	220	10m	100n	1.0n☑		BD	A	PD12hØ
23#	TLR103	2*	2.8	30m	100m*	35m	4.0	27*	700n	500u	15m	46	10m	100n	1.0n☑		BD	A	PD126Ø
24#	TLR104	2§	2.8	30m	100m*	35m	4.0	27*	700n	300u	15m	56	10m	100n	1.0n☑		BD	A	PD126Ø
25#	TLR105	2*	2.8	30m	100m*	35m	4.0	27*	700n	500u	15m	56	10m	100n	1.0n☑		BD	A	PD127Ø
26#	TLR106	2§	2.8	30m	100m*	35m	4.0	27*	700n	300u	15m	56	10m	100n	1.0n☑		BD	A	PD126Ø
27#	TLR107	2*	2.8	30m	100m*	35m	4.0	27*	700n	300u	15m	74	10m	100n	1.0n☑		BD	A	PD128Ø
28#	TLR110	2*	2.8	30m	100m*	35m	4.0	27*	700n	500u	15m	46	10m	100n	1.0n☑		BD	A	PD126Ø
29#	TLR103K	2*	2.8	30m	125m*	45m	4.0	27*	700n	500u	15m			100n	1.0n☑		BD	A	PD328Ø
30#	TLR104K	2§	2.8	30m	125m*	45m	4.0	27*	700n	300u	15m			100n	1.0n☑		BD	A	PD328Ø
31#	TLR105K	2*	2.8	30m	125m*	45m	4.0	27*	700n	500u	15m			100n	1.0n☑		BD	A	PD327Ø
32#	TLR106K	2§	2.8	30m	125m*	45m	4.0	27*	700n	300u	15m			100n	1.0n☑		BD	A	PD328Ø
33#	TLR107K	2*	2.8	30m	125m*	45m	4.0	27*	700n	300u	15m			100n	1.0n☑		BD	A	PD329Ø
34#	TLR110K	2*	2.8	30m	125m*	45m	4.0	27*	700n	500u	15m			100n	1.0n☑		BD	A	PD328Ø
35▼	5082-4650	2§	3.0	10m		50m	5.0	5A	635n	1.0m	10m	90					BD	♦	PD415Ø
36▼	5082-4655	2§	3.0	10m		50m	5.0	5A	635n	3.0m	10m	90					BD	♦	PD415Ø
37▼	FLV511	2	3.0	10m	100m*	35	5.0	XF	570n	1.6m	20m						BD		PD50v
38▼	FLV551	2	3.0	10m	100m*	35	5.0	XF	570n	1.6m	20m						BD		PD50x
39	521-9246	2§	3.0	10m	120m	20m	5.0	5A*	635n	3.0m	10m	90	10m		90n	18p	CA	A	PD62cØ
40	521-9247	2	3.0	10m	120m	20m	5.0	5A*	635n	15m	10m	35	10m		90n	18p	CA	A	PD62cØ
41	550-2404	2	3.0	10m	120m	30m	5.0	5A	635n	3.0m	10m				90n	18p	CA		PD66b☑
42	550-2405	2	3.0	10m	120m	30m	5.0	5A	635n	3.0m	10m				90n	18p	CA		PD67b☑
43	550-2406	2	3.0	10m	120m	30m	5.0	5A	635n	3.0m	10m				90n	18p	CA		PD68b☑
44	HLMP-1300	2§	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	500u	10m	70		45n	90n	20p	CA	B	PD77Ø
45	HLMP-1301	2§	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	1.0m	10m	70		45n	90n	20p	CA	B	PD77Ø
46	HLMP-1302	2§	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	2.0m	10m	70		45n	90n	20p	CA	B	PD77Ø
47	HP5082-4160	2§	3.0	10m	120m	20m	5.0 Ø	5A*	635n	1.0m	10m	80		43n	90n	11p	CA	A	PD180Ø
48	HP5082-4650	2§	3.0	10m	120m*	20m	5.0 Ø	5A*	635n	1.0m	10m	90	10m	41n	90n	16p	CA	A	PD50uØ
49	HP5082-4655	2§	3.0	10m	120m*	20m	5.0 Ø	5A*	635n	3.0m	10m	90	10m	41n	90n	16p	CA	A	PD50uØ
50	HP5082-4657	2*	3.0	10m	120m*	20m	5.0 Ø	5A*	635n	9.0m	10m	35	10m	41n	90n	16p	CA	A	PD50uØ
51	HP5082-4658	2*	3.0	10m	120m*	20m	5.0 Ø	5A*	635n	15m	10m	35	10m	41n	90n	16p	CA	A	PD50uØ
52	HP5082-4684	2§	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	1.0m	10m	70		45n	90n	20p	CA	B	PD77Ø
53	HP5082-4690	2§	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	1.5m	10m	50		44n	90n	16p	CA	A	PD50kØ
54	HP5082-4693	2§	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	5.0m	10m	50		44n	90n	16p	CA	A	PD50kØ
55	HP5082-4694	2	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	4.0m	10m	45		44n	90n	16p	CA	A	PD50kØ
56	HP5082-4695	2	3.0	10m	120m*	20m*	5.0 Ø	5A*	635n	8.0m	10m	45		44n	90n	16p	CA	A	PD50kØ
57▼	LST4054-1	2§	3.0	10m	120m	40m	5.0	5A	690n	1.0m	10m	65	10m	85n		35p	BD	A	PD404Ø
58	LLL7	2	3.0	12m	150m	40m	3.0	48	690n	800u	12m	30	12m	85n		35p	BD	A	PD54Ø
59	MSL7	2§	3.0	12m	150m	40m	3.0	48	690n	800u	12m	30	12m	85n		35p	BD	A	PD55Ø
60	521-9242#1	2§	3.0	15m	112m	40m	5.0	2A*	690n	1.4m	15m			90n		100p		♦	PD224bØ
61	521-9244#1	2§	3.0	15m	112m	40m	5.0	2A*	690n	1.4m†	15m			90n		100p			PD224Ø
62	521-9245#1	2§	3.0	15m	112m	40m	5.0	2A*	690n	1.7m†	15m			90n		100p			PD224aØ
63	CQX23-1	2§	3.0	20m		60m				2.0m	20m	140						A	PD28kØ
64	CQX23-2	2§	3.0	20m		60m				3.2m	20m	140						A	PD28kØ
65	LD32-1	2§	3.0	20m		60m				1.2m	10m	70						B	PD77dØ
66	LD32-2	2§	3.0	20m		60m				2.0m	10m	70						B	PD77dØ
67	LD52-1	2§	3.0	20m		60m				1.2m	10m	80						B	PD325Ø
68	LD52-2	2§	3.0	20m		60m				2.0m	10m	80						B	PD325Ø
69	LD121	2*	3.0	20m		25m				500u	10m							A	PD354
70	521-9214	2	3.0	20m	100m	50m	3.0	5A*	665n	200u	20m	50	20m				CA	A	PD63Ø
71	550-0404	2§	3.0	20m	100m	50m	3.0	4A*	655n	2.0m†	20m	70	20m	25n	10n#		CA	A	PD66☑
72	550-0405	2§	3.0	20m	100m	50m	3.0	4A*	655n	2.0m†	20m	70	20m	25n	10n#		CA	A	PD67☑
73	550-0406	2§	3.0	20m	100m	50m	3.0	4A*	655n	2.0m†	20m	70	20m	25n	10n#		CA	A	PD68☑
74	FLV111	2	3.0	20m	100m*	50m	3.0	XC§	665n	800u	20m	70	20m	25n	10n#	100p	CA	A	PD50vØ
75	FLV112	2§	3.0	20m	100m*	50m	3.0	XC§	665n	800u	20m	70	20m	25n	10n		CA	A	PD50vØ
76	FLV117△	2§	3.0	20m	100m*	50m	3.0	XC§	665n	800u	20m	40	20m	25n			CA	A	PD50vØ
77	FLV118△	2	3.0	20m	100m*	50m	3.0	XC§	665n	800u	20m	40	20m	25n	10n		CA	A	PD50vØ
78	CM4-244A	2	3.0	20m	105m	35m	5.0	5A	635n	1.0m	20m	90	20m		50n	45p	CA		
79	CM4-244B	2§	3.0	20m	105m	35m	5.0	5A*	635n	1.0m	20m	90			50n	45p	CA		PD16Ø
80	CM4-264	2	3.0	20m	105m	35m	5.0	5A	635n	1.0m	20m				50n	45p	CA		
81	CM4-282B	2*	3.0	20m	105m	35m	5.0	5A*	635n	17m	20m	28			50n	45p	CA	A	PD16Ø
82	CM4-282B-2	2	3.0	20m	105m	35m	5.0	5A	635n	30m	20m	28	20m		50n	45p	CA		
83	CM4-283B	2§	3.0	20m	105m	35m	5.0	5A*	635n	1.7m	20m	24	20m		50n	45p	CA	A	PD16Ø
84	CM4-284B	2§	3.0	20m	105m	35m	5.0	5A*	635n	1.2m	20m	65	20m		50n	45p	CA	A	PD16Ø
85	CM4-284B-2	2	3.0	20m	105m	35m	5.0	5A	635n	3.0m	10m	65	20m		50n	45p	CA		
86	MV5752	2	3.0	20m	105m*	35m	5.0	5A*	635n	40m†	20m	28	20m	45n		45p	CA	A	PD16aØ
87	MV5753	2§	3.0	20m	105m*	35m	5.0	5A*	635n	4.0m†	20m	65	20m	45n		45p	CA	A	PD16aØ
88	MV5754	2§	3.0	20m	105m*	35m	5.0	5A*	635n	8.0m†	20m	24	20m	45n		45p	CA	A	PD16nØ
89	MV5774B	2	3.0	20m	105m*	35m	5.0	5A*	635n	5.0m†	20m	90	20m	45n		45p	CA	A	PD16bØ
90	MV5774C	2	3.0	20m	105m*	35m	5.0	5A*	635n	5.0m†	20m	90	20m	45n		45p	CA	A	PD16cØ
91	MV5777B	2	3.0	20m	105m*	35m	5.0	5A*	635n	3.0m†	20m	180	20m	45n		45p	CA	A	PD16dØ
92	MV5777C	2	3.0	20m	105m*	35m	5.0	5A*	635n	3.0m†	20m	180	20m	45n		45p	CA	A	PD16eØ
93	MV57124	2	3.0	20m	105m*	35m*	5.0	5A*	635n	1.0m	20m		20m	45n		45p		B	PD319☑
94	1N6092	2	3.0	20m	120m*	35m	5.0	5A*	630n	1.0m	20m	70	20m			100p☑	CA	B	PD84Ø
95	JAN1N6092	2	3.0	20m	120m*	35m	5.0	6A*	642n▼	1.0m	20m	60	20m			100p☑		B	PD376Ø
96	521-9200☑	2	3.0	20m	120m	50m	3.0 Ø	5A*	665n	200u	20m	90	20m	25n			CA	A	PD50cØ
97	521-9240	2	3.0	20m	120m	50m	3.0 Ø	5A*	665n	500u	20m	90		25n				A	PD52aØ
98	5082-4620	2§	3.0	20m	120m	35m	5.0 Ø	5A	635n	1.0m	20m	70		40n	200n	35p	EB	B	PD84Ø
99	5082-4687	2§	3.0	20m	120m	35m	5.0 Ø	5A	635n	1.0m	20m	70		40n	200n	35p	EB	B	PD369Ø
100▼	AND700H	2△	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD392Ø
101▼	AND703H	2*	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD392Ø
102▼	AND704H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD392Ø
103▼	AND706H	2#	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD392Ø
104▼	AND708H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD392Ø
105▼	AND710H	2△	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD28rØ
106▼	AND713H	2*	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD28rØ
107▼	AND714H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD28rØ
108▼	AND716H	2#	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD28rØ
109▼	AND718H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD28rØ
110▼	AND720H	2△	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257cØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1▼	AND723H	2*	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257cØ
2▼	AND724H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257cØ
3▼	AND726H	2#	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257cØ
4▼	AND728H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257cØ
5▼	AND740H	2△	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257bØ
6▼	AND743H	2*	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257bØ
7▼	AND744H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257bØ
8▼	AND746H	2#	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257bØ
9▼	AND748H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD		PD257bØ
10▼	AND750H	2△	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD16yØ
11▼	AND753H	2*	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD16yØ
12▼	AND754H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD16yØ
13▼	AND756H	2#	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD16yØ
14▼	AND758H	2§	3.0	20m	120m*	20m	5.0	48	630n	1.5m†	20m		20m	40n			BD	A	PD16yØ
15	HP5082-4620	2§	3.0	20m	120m*	35m*	5.0 Ø	5A*	635n	1.0m	20m	70		41n	200n	35p	CA	B	PD84Ø
16▼	LST4053	2§	3.0	20m	120m	40m	5.0	5A	690n	500u	20m	80	20m	85n		35p	BD	A	PD404Ø
17▼	LST4753	2§	3.0	20m	120m	40m	5.0	5A	635n	2.5m	20m	80	20m	45n		35p	BD	A	PD404Ø
18▼	LST4754	2§	3.0	20m	120m	40m	5.0	5A	635n	3.0m	20m	65	20m	45n		35p	BD	A	PD404Ø
19♦	LST5053	2§	3.0	20m	120m	35m	5.0	5A	690n	500u	20m	80	20m	85n	450n	35p	BD	A	PD50rØ
20▼	LST5053R	2§	3.0 §	20m	120m	35m	5.0	5A	690n	1.0m†	20m	80	20m	85n		35p	BD RES		PD50rØ
21♦	LST5054-1	2§	3.0	20m	120m	35m	5.0	5A	690n	1.0m	20m	40	20m	85n	450n	35p	BD	A	PD50rØ
22▼	LST5054R	2§	3.0 §	20m	120m	35m	5.0	5A	690n	2.0m†	10m	40	20m	85n		35p	BD RES		PD50rØ
23♦	LST5752	2*	3.0	20m	120m	35m	5.0	5A	635n	17m	20m	28	20m	45n	100n	45p	BD	A	PD50rØ
24▼	LST5752R	2*	3.0 §	20m	120m	35m	5.0	5A	635n	40m†	20m	28	20m	45n		45p	BD RES		PD50rØ
25♦	LST5753	2§	3.0	20m	120m	35m	5.0	5A	635n	2.5m	20m	65	20m	45n	100n	35p	BD	A	PD50rØ
26▼	LST5753R	2§	3.0 §	20m	120m	35m	5.0	5A	635n	6.0m†	20m	65	20m	45n		35p	BD RES		PD50rØ
27♦	LST5754	2§	3.0	20m	120m	35m	5.0	5A	635n	3.0m	20m	24	20m	45n	100n	35p	BD	A	PD50rØ
28▼	LST5754R	2§	3.0 §	20m	120m	35m	5.0	5A	635n	8.0m†	20m	24	20m	45n		35p	BD RES		PD50rØ
29#	CQX23I	2§	3.0	20m	200m	60m	5.0	5A%	645n	2.0m	20m	140		40n	100n#	22p		B	PD325aØ
30#	CQX23II	2§	3.0	20m	200m	60m	5.0	5A%	645n	3.2m	20m	140		40n	100n#	22p		B	PD325aØ
31	FLV510	2§	3.0	20m	200m	35m	5.0	5A*	640n	2.0m	20m	70	20m	35n			CA		PD50vØ
32	FLV540	2§	3.0	20m	200m	35m	5.0	5A*	640n	2.0m	20m	70	20m	35n			CA		PD50wØ
33	FLV550	2§	3.0	20m	200m	35m	5.0	5A*	640n	2.0m	20m	70	20m	35n			CA		PD50xØ
34	FLV560	2§	3.0	20m	200m	35m	5.0	5A*	640n	2.0m	20m	70	20m	35n			CA		PD52bØ
35#	LD32I	2§	3.0	20m	200m	60m	5.0	5A%	645n	1.2m	10m	70		40n	100n#	22p		B	PD77dØ
36#	LD32II	2§	3.0	20m	200m	60m	5.0	5A%	645n	2.0m	10m	70		40n	100n#	22p		B	PD77dØ
37#	LD52C	2*	3.0	20m	200m	60m	5.0	5A%	645n	15m	10m	24		35n	100n#	22p		B	PD325bØ
38#	LD52CA	2*	3.0	20m	200m	60m	5.0	5A%	645n	9.0m	10m	24		35n	100n#	22p		B	PD325bØ
39#	LD52I	2§	3.0	20m	200m	60m	5.0	5A%	645n	1.2m	10m	80		35n	100n#	22p		B	PD325bØ
40#	LD52II	2§	3.0	20m	200m	60m	5.0	5A%	645n	2.0m	10m	80		35n	100n#	22p		B	PD325Ø
41	HLMP-0300	2§	3.0	25m	120m*	30m*	5.0 Ø	5A*	635n	800u	25m	100		45n	90n	17p	CA	A	PD262☑
42	HLMP-0301	2§	3.0	25m	120m*	30m*	5.0 Ø	5A*	635n	1.5m	25m	100		45n	90n	17p	CA	A	PD262☑
43	HP5082-4670	2§	3.0	25m	120m*	30m*	5.0	5A	635n	800u	15m	100		45n	90n	17p	CA	A	PD262☑
44#	AL102A	2	3.2	5.0m		10m	6.0	67*		5.0 $	5.0m						BD		PD235Ø
45▼	TIL216-1	2§	3.2	20m		50m	5.0	5A	620n	2.1m	20m	60	20m				BD	♦	PD416Ø
46♦	TIL216-2	2§	3.2	20m		50m	5.0	5A	620n	6.0m	20m	60	20m				BD	♦	PD416Ø
47▼	TIL228-1	2§	3.2	20m		50m	5.0	5A	620n	2.1m	20m	60	20m				BD	♦	PD415Ø
48▼	TIL228-2	2§	3.2	20m		50m	5.0	5A	620n	6.0m	20m	60	20m				BD	♦	PD415Ø
49▼	TIL231-1	2*	3.2	20m		50m	5.0	5A	620n	6.0m	20m	25	20m				BD	♦	PD415Ø
50▼	TIL231-2	2*	3.2	20m		50m	5.0	5A	620n	15m	20m	25	20m				BD	♦	PD415Ø
51	OSL5	2	3.2	20m	150m	50m	4.0	5A	690n	360u	20m	100	20m	85n	450n#	100p	BD	A	PD58Ø
52	547-2002	2§	3.6 §	20m	135m		3.0	57	650n	2.0m	20m	70		20n		20p	CA	A	PD378☑
53	555-2002	2§	3.6 §	20m	135m		3.0	57	650n	2.0m	20m	70		20n		20p	CA	A	PD380☑
54	555-3002	2§	3.6 §	20m	135m		3.0	57	650n	2.0m	20m	70		20n		20p	CA	A	PD381☑
55	OSL1	2	3.7	40m	150m	50m	4.0	5A	560n	1.2m	40m	100	40m	35n		50p	BD	A	PD59Ø
56	OSL1S	2	3.7	40m	150m	50m	4.0	5A	560n	1.2m	40m	100	40m	35n		50p	BD	A	PD58Ø
57	ED220R	2§	3.8	20m	225m	80m	3.0	5A	609n	2.5m	20m	60	20m				BD	A	PD56aØ
58#	AL102B	2	4.5	20m		10m	6.0	67*		40 $	20m						BD		PD235Ø
59	547-2007	2§	5.0 §	3.0m			3.0	57	650n	400u†	3.0m	80		20n		20p	CA	A	PD378☑
60	555-2007	2§	5.0 §	3.0m			6.0	57	650n	600u†	3.0m	80		20n		20p	CA	A	PD380☑
61	555-3007	2§	5.0 §	3.0m			3.0	57	650n	400u†	3.0m	70		20n		20p	CA	A	PD381☑
62	SS9102	2	5.0	3.2m		3.2m	3.0		700n			40				1.0p	BC	A	PD69☑
63	547-2003	2§	5.0 §	6.5m			3.0	57	650n	800u†	6.0m	80		20n		20p	CA	A	PD378☑
64	555-2003	2§	5.0 §	6.5m			6.0	57	650n	1.2m†	6.0m	80		20n		20p	CA	A	PD380☑
65	555-3003	2§	5.0 §	6.5m			3.0	57	650n	800u†	6.0m	70		20n		20p	CA	A	PD381☑
66	521-9222	2	5.0 †	15m		20m			655n	2.0m†								A	PD208aØ
67	551-0505	2§	5.0 §	15m		20m	7.0	5A	655n	300u†	15m	60					CA	A	PD382☑
68	550-0504	2§	5.0 §	15m	100m	20m	7.0	4A*	655n	2.0m†	15m	70	20m	25n	10n#		CA	A	PD66a☑
69	550-0505	2§	5.0 §	15m	100m	20m	7.0	4A*	655n	2.0m†	15m	70	20m	25n	10n#		CA	A	PD67a☑
70	550-0506	2§	5.0 §	15m	100m	20m	7.0	4A*	655n	2.0m†	15m	70	20m	25n	10n#		CA	A	PD68a☑
71	547-2004	2§	5.0 §	16m			3.0	57	650n	2.0m†	16m	70		20n		20p	CA	A	PD378☑
72	549-0104	2§	5.0 §	16m		20m	7.0	4A	655n	2.0m†	15m	120					CA	A	PD379Ø
73	555-2004	2§	5.0 §	16m			3.0	57	650n	2.0m†	16m	70		20n		20p	CA	A	PD380☑
74	555-3004	2§	5.0 §	16m			3.0	57	650n	2.0m†	16m	70		20n		20p	CA	A	PD381☑
75	6081-900-304	2	5.0	16m			5.0			1.3m	16m	90	16m						PD226Ø
76	521-9183	2§	5.0	20m		20m	7.0	5A*	655n	800u	20m	150			15n		CA	A	PD62Ø
77	521-9184	2*	5.0	20m		20m	7.0	5A*	655n	800u	20m	150			15n		CA	A	PD62Ø
78	521-9215	2§	5.0	20m	100m	50m	7.0	5A*	655n	300u		150			15n		CA	B	PD77eØ
79	XC209-5VR	2§	5.0 §	20m	100m*	20m	5.0	5A*	697n	600u		75		95n	500n	50p	BD	A	PD16Ø
80	6082-002-304	2	5.0	40m			5.0			8.0m	40m	140	40m						PD226Ø
81	6342-002-505R	2	5.0	40m			5.0			13m	40m	140	40m				Lug		PD227Ø
82	6342-302-505R	2	5.0	40m			5.0			13m	40m	140	40m				Wire		PD227Ø
83	HLMP-6620	2§	6.0 §	5.0m	375m*		15	57*	635n	200u	4.0m	90		45n			CA	A	PD180aØ
84	HLMP-6600	2§	6.0 §	14m	375m*		15	57*	635n	1.0m	10m	90		45n			CA	A	PD180aØ
85▼	L39UR-R6-2111	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD398aØ
86▼	L39UR-R6-2311	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD398Ø
87▼	L45RN-R6-2111	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399aØ
88▼	L45RN-R6-2311	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399Ø
89▼	L46RN-R6-2111	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399cØ
90▼	L46RN-R6-2311	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399bØ
91▼	L58-R6-W	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD400aØ
92▼	L59-R6-W	2	6.0	35m	100m	35m	5.0	5A		3.0m†									PD401aØ
93	HP5082-4468	2§	7.5 §	24m		20m	7.0	5A*	655n	300u	16m	70			15n			B	PD77Ø
94	HP5082-4860	2§	7.5 §	24m		20m	7.0	5A*	655n	300u	16m	60			15n			B	PD13Ø
95	547-2005	2§	10 §	14m			3.0	57	650n					20n		20p	CA	A	PD378☑
96	555-2005	2§	10 §	14m				57	650n								CA	A	PD380☑
97	555-3005	2§	10 §	14m				57	650n								CA	A	PD381☑
98	RLC210△	2§	11	14m	160m	14m	3.0	5A	650n	100u				40n			CA	A	PD82Ø
99	550-0604	2§	12 §	15m		20m	7.0	57	655n	800u	15m	70			15n		CA	A	PD66a☑
100	550-0605	2§	12 §	15m		20m	7.0	57	655n	800u	15m	70			15n		CA	A	PD67a☑
101	550-0606	2§	12 §	15m		20m	7.0	57	655n	800u	15m	70			15n		CA	A	PD68a☑
102	RLC200	2§	12	24m	300m	24m	3.0	5A	650n	800u				40n			CA	A	PD83Ø
103▼	L39UR-R12-2111	2	12	35m	100m	35m	5.0	5A		3.0m†									PD398aØ
104▼	L39UR-R12-2311	2	12	35m	100m	35m	5.0	5A		3.0m†									PD398Ø
105▼	L45RN-R12-2111	2	12	35m	100m	35m	5.0	5A		3.0m†									PD399aØ
106▼	L45RN-R12-2311	2	12	35m	100m	35m	5.0	5A		3.0m†									PD399Ø
107▼	L46RN-R12-2111	2	12	35m	100m	35m	5.0	5A		3.0m†									PD399cØ
108▼	L46RN-R12-2311	2	12	35m	100m	35m	5.0	5A		3.0m†									PD399bØ
109▼	L58-R12-W	2	12	35m	100m	35m	5.0	5A		3.0m†									PD400aØ
110▼	L59-R12-W	2	12	35m	100m	35m	5.0	5A		3.0m†									PD401aØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 MAX. RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	547-2006	2§	14 §	10m			3.0	57	650n	1.0m†	8.0m	70		20n		20p	CA	A	PD378☑
2	555-2006	2§	14 §	10m			3.0	57	650n	1.0m†	8.0m	70		20n		20p	CA	A	PD380☑
3	555-3006	2§	14 §	10m			3.0	57	650n	1.0m†	8.0m	70		20n		20p	CA	A	PD381☑
4	RLC201	2§	16	14m	300m	14m	3.0	5A	650n	400u				40n			CA	A	PD83Ø
5	NSL4944	2§	18 §	18m	300m		18	5A*	660n	200u	12m	55		40n			CA	A	PD28bØ
6▼	L39UR-R24-2111	2	24	35m	100m	35m	5.0	5A		3.0m†									PD398aØ
7▼	L39UR-R24-2311	2	24	35m	100m	35m	5.0	5A		3.0m†									PD398Ø
8▼	L45RN-R24-2111	2	24	35m	100m	35m	5.0	5A		3.0m†									PD399aØ
9▼	L45RN-R24-2311	2	24	35m	100m	35m	5.0	5A		3.0m†									PD399Ø
10▼	L46RN-R24-2111	2	24	35m	100m	35m	5.0	5A		3.0m†									PD399cØ
11▼	L46RN-R24-2311	2	24	35m	100m	35m	5.0	5A		3.0m†									PD399bØ
12▼	L58-R24-W	2	24	35m	100m	35m	5.0	5A		3.0m†									PD400aØ
13▼	L59-R24-W	2	24	35m	100m	35m	5.0	5A		3.0m†									PD401aØ
14▼	LLT221R	3§			105m	30m	5.0	5A		1.5m	20m						EB Red L	A	PD257aØ
15▼	LLT222RT	3△			105m	30m	5.0	5A		2.0m	20m						EB Red L	A	PD257aØ
16▼	LLT223R	3§			105m	30m	5.0	5A		1.5m	20m						EB Red L	A	PD28tØ
17▼	LLT224RT	3*			105m	30m	5.0	5A		2.0m	20m						EB Red L	A	PD28tØ
18▼	LLT271A	3§			105m	30m	5.0	5A		500u	20m						BD	A	PD257aØ
19▼	LLT272AT	3△			105m	30m	5.0	5A		1.0m	20m						BD	A	PD257aØ
20▼	LLT273A	3§			105m	30m	5.0	5A		500u	20m						BD	A	PD28tØ
21▼	LLT274AT	3△			105m	30m	5.0	5A		1.0m	20m						BD	A	PD28tØ
22▼	LLT291E	3§			105m	30m	5.0	5A		1.5m	20m						EB	A	PD257aØ
23▼	LLT292ET	3△			105m	30m	5.0	5A		2.0m	20m						EB	A	PD257aØ
24▼	LLT293E	3§			105m	30m	5.0	5A		1.5m	20m						EB	A	PD28tØ
25▼	LLT294ET	3△			105m	30m	5.0	5A		2.0m	20m						EB	A	PD28tØ
26▼	LLT295EW	3#			105m	30m	5.0	5A		1.5m	20m						EB	A	PD257aØ
27▼	LLT296EC	3*			105m	30m	5.0	5A		2.0m	20m						EB	A	PD257aØ
28▼	LLT297EW	3#			105m	30m	5.0	5A		1.5m	20m						EB	A	PD28tØ
29▼	LLT298EC	3*			105m	30m	5.0	5A		2.0m	20m						EB	A	PD28tØ
30▼	E1100	3	2.0	20m		35m			635n	17m					50n	45p		A	PD16fØ
31	OL31△	3§	2.0	20m	80m	40m	3.0	5A	620n	300u	20m		20m	40n		90p	CA	A	PD82Ø
32#	LN41YP	3§	2.0 †	20m	100m	25m	4.0	27*	590n	2.0m†	15m		20m	32n			BD	A	PD215
33	6340-001-505A	3	2.0	40m			5.0			10m	40m	140	40m				Lug		PD227Ø
34	6340-301-505A	3	2.0	40m			5.0			10m	40m	140	40m				Wire		PD227Ø
35	OL30△	3§	2.0	50m	200m	100m	3.0	5A	620n	800u	20m	84	20m	40n		115p	CA	A	PD83Ø
36	1920A	3	2.1	25m	80m	30m	3.0	26	590n	10m†	25m						BD	A	PD289Ø
37	1922A	3	2.1 †	25m	80m	30m	3.0	26	590n	10m†	25m							A	PD290Ø
38#	LN43SYP	3	2.1 †	30m	60m	25m	4.0	28	590n	600u†	20m			30n			CA	A	PD118cØ
39#	LN45YCP	3*	2.1 †	30m	70m	30m	4.0	28*	590n	1.5m†	20m	35	20m	30n		40p§	BD	A	PD212
40#	LN45YP	3§	2.1 †	30m	70m	30m	4.0	28*	590n	800u†	20m	60	20m	30n		40p§	BD	A	PD212
41#	LN46YP	3§	2.1 †	30m	80m	30m	4.0	28*	590n	500u†	20m	15	20m	30n			BD	A	PD222
42	ED226A	3	2.4	10m	100m*	50m*	5.0	5A§	600n	600u	10m	80				50p	BD	A	PD19Ø
43	ED5053A	3	2.4	10m	100m*	50m*	5.0	5A§	600n	400u	10m	80				50p	BD	A	PD18aØ
44#	SY403D	3§	2.5	20m	100m	40m	5.0	X8§	590n	2.0m†	20m	60		35n		60p	CA	A	PD254Ø
45#	SY403T	3	2.5	20m	100m	40m	5.0	X8§	590n	4.0m†	20m	26		35n		60p	CA	A	PD254Ø
46#	SY404D	3§	2.5	20m	100m	40m	5.0	X8§	590n	2.0m†	20m			35n		80p	CA	A§	PD12tØ
47#	SY404T	3	2.5	20m	100m	40m	5.0	X8§	590n	4.0m†	20m			35n		80p	CA	A§	PD12tØ
48#	SY405D	3§	2.5	20m	100m	40m	5.0	X8§	590n	2.0m†	20m	20		35n		60p	CA	A	PD285Ø
49#	SY405T	3	2.5	20m	100m	40m	5.0	X8§	590n	4.0m†	20m	16		35n		60p	CA	A	PD285Ø
50#	SY406D	3§	2.5	20m	100m	40m	5.0	X8§	590n	2.0m†	20m	42		35n		60p	CA	A	PD256Ø
51#	SY406T	3	2.5	20m	100m	40m	5.0	X8§	590n	4.0m†	20m	38		35n		60p	CA	A	PD256Ø
52▼#	CQX41NA	3	2.7	10m	100m	30m	5.0	2A§	630n	1.0m	10m	60		40n		50p§	EB	A	PD393Ø
53▼#	CQX42NA	3	2.7	10m	100m	30m	5.0	2A§	630n	1.3m	10m	25		40n		50p§	EB	A	PD393Ø
54▼#	LT1293E	3§	2.8	20m	70m	30m	5.0	48	635n	800u	20m		20m	45n			EB	A	PD390Ø
55▼#	LT2291E	3§	2.8	20m	75m	30m	5.0	28	635n	500u	20m		20m	45n			EB		PD391Ø
56▼#	LT2293E	3§	2.8	20m	75m	30m	5.0	28	635n	500u	20m		20m	45n			EB		PD391aØ
57▼#	LT191E	3§	2.8	20m	105m*	30m*	5.0	48	635n	1.0m	20m		20m	45n			EB	A	PD389Ø
58▼#	LT196EC	3*	2.8	20m	105m*	30m*	5.0	48	635n	1.5m	20m		20m	45n			EB	A	PD389aØ
59▼#	LT221R	3§	2.8	20m	105m*	30m*	5.0	48		1.5m	20m						EB	A	PD292Ø
60▼#	LT222RT	3△	2.8	20m	105m*	30m*	5.0	48		2.0m	20m						EB	A	PD292Ø
61▼#	LT223R	3§	2.8	20m	105m*	30m*	5.0	48		1.5m	20m						EB	A	PD28sØ
62▼#	LT224RT	3△	2.8	20m	105m*	30m*	5.0	48		2.0m	20m						EB	A	PD28sØ
63▼#	LT271A	3§	2.8	20m	105m*	30m*	5.0	48	600n	500u	20m						BD AMBER	A	PD292Ø
64▼#	LT272AT	3△	2.8	20m	105m*	30m*	5.0	48	600n	1.0m	20m						BD AMBER	A	PD292Ø
65▼#	LT273A	3§	2.8	20m	105m*	30m*	5.0	48	600n	500u	20m						BD AMBER	A	PD28sØ
66▼#	LT274AT	3△	2.8	20m	105m*	30m*	5.0	48	600n	1.0m	20m						BD AMBER	A	PD28sØ
67▼#	LT291E	3§	2.8	20m	105m*	30m*	5.0	48	635n	1.5m	20m		20m	45n			EB	A	PD292Ø
68▼#	LT292ET	3△	2.8	20m	105m*	30m*	5.0	48	635n	2.0m	20m		20m	45n			EB	A	PD292Ø
69▼#	LT293E	3§	2.8	20m	105m*	30m*	5.0	48	635n	1.5m	20m		20m	45n			EB	A	PD28sØ
70▼#	LT294ET	3△	2.8	20m	105m*	30m*	5.0	48	635n	2.0m	20m		20m	45n			EB	A	PD28sØ
71▼#	LT295EW	3#	2.8	20m	105m*	30m*	5.0	48	635n	1.5m	20m		20m	45n			EB	A	PD292Ø
72▼#	LT296EC	3*	2.8	20m	105m*	30m*	5.0	48	635n	2.0m	20m		20m	45n			EB	A	PD292Ø
73▼#	LT297EW	3#	2.8	20m	105m*	30m*	5.0	48	635n	1.5m	20m		20m	45n			EB	A	PD28sØ
74▼#	LT298EC	3*	2.8	20m	105m*	30m*	5.0	48	635n	2.0m	20m		20m	45n			EB	A	PD28sØ
75▼#	LT3291E	3§	2.8	20m	105m	30m	5.0	48	635n	1.2m	20m		20m	45n			EB		PD262aØ
76▼#	LT3293E	3§	2.8	20m	105m	30m	5.0	48	635n	1.2m	20m		20m	45n			EB		PD262bØ
77▼#	LT4271A	3§	2.8	20m	105m	30m	5.0	48	600n	800u	20m						BD		PD16wØ
78▼#	LT4272AT	3△	2.8	20m	105m	30m	5.0	48	600n	1.5m	20m						BD		PD16wØ
79▼#	LT4273A	3§	2.8	20m	105m	30m	5.0	48	600n	800u	20m						BD		PD16xØ
80▼#	LT4274AT	3△	2.8	20m	105m	30m	5.0	48	600n	1.5m	20m						BD		PD16xØ
81▼#	LT4291E	3§	2.8	20m	105m	30m	5.0	48	635n	2.0m	20m		20m	45n			EB		PD16wØ
82▼#	LT4292ET	3△	2.8	20m	105m	30m	5.0	48	635n	2.5m	20m		20m	45n			EB		PD16wØ
83▼#	LT4293E	3§	2.8	20m	105m	30m	5.0	48	635n	2.0m	20m		20m	45n			EB		PD16xØ
84▼#	LT4294ET	3△	2.8	20m	105m	30m	5.0	48	635n	2.5m	20m		20m	45n			EB		PD16xØ
85▼#	LT4295EW	3#	2.8	20m	105m	30m	5.0	48	635n	2.0m	20m		20m	45n			EB		PD16wØ
86▼#	LT4296EC	3*	2.8	20m	105m	30m	5.0	48	635n	2.5m	20m		20m	45n			EB		PD16wØ
87▼#	LT4297EW	3#	2.8	20m	105m	30m	5.0	48	635n	2.0m	20m		20m	45n			EB		PD16xØ
88▼#	LT4298EC	3*	2.8	20m	105m	30m	5.0	48	635n	2.5m	20m		20m	45n			EB		PD16xØ
89▼	LST4153F	3§	2.8	20m	120m	40m	5.0m	5A	635n	500u	10m	80	10m	45n			BD	A	PD404Ø
90	MV57152	3*	3.0	10m	105m*	35m*	5.0	5A*	630n	4.0m	10m	70	10m	45n		45p	CA	B	PD47aØ
91	MV57154	3§	3.0	10m	105m*	35m*	5.0	5A*	630n	2.0m	10m	80	10m	45n		45p	CA	B	PD47aØ
92▼#	MIL3431	3§	3.0	20m	60m*	35m	5.0 Ø	5A	635n	800u	20m	45	20m	35n		45p§	BD		PDØ
93▼#	MIL3432	3△	3.0	20m	60m*	35m	5.0 Ø	5A	635n	800u	20m	40	20m	35n		45p§	BD		PDØ
94▼#	MIL3438	3*	3.0	20m	60m*	35m	5.0 Ø	5A	635n	800u	20m	40	20m	35n		45p§	BD		PDØ
95▼#	MIL3439	3#	3.0	20m	60m*	35m	5.0 Ø	5A	635n	800u	20m	45	20m	35n		45p§	BD		PDØ
96▼#	CQX41NB	3	3.0	20m	100m	30m	5.0	2A§	630n	2.5m	10m	60		40n		50p§	EB	A	PD393Ø
97▼#	CQX42NB	3	3.0	20m	100m	30m	5.0	2A§	630n	4.0m	10m	25		40n		50p§	EB	A	PD393Ø
98▼#	CQX43N	3	3.0	20m	100m	30m	5.0	2A§	630n	2.1m	20m	40		40n		50p§	EB	A	PD394Ø
99	CM4-444A	3	3.0	20m	105m	35m	5.0	5A	635n	1.0m	20m	90	20m		50n	45p	CA		
100	CM4-444B	3§	3.0	20m	105m	35m	5.0	5A*	635n	1.0m	20m	90			50n	45p	CA	A	PD16kØ
101	CM4-482B	3*	3.0	20m	105m	35m	5.0	5A*	635n	17m	20m	28			50n	45p	CA	A	PD16Ø
102	CM4-482B-2	3	3.0	20m	105m	35m	5.0	5A	635n	30m	20m	28	20m		50n	45p	CA		
103	CM4-483B	3§	3.0	20m	105m	35m	5.0	5A*	635n	1.7m	20m	24	20m		50n	45p	CA	A	PD16Ø
104	CM4-484B	3§	3.0	20m	105m	35m	5.0	5A*	635n	1.2m	20m	65	20m		50n	45p	CA	A	PD16Ø
105	CM4-484B-2	3	3.0	20m	105m	35m	5.0	5A	635n	3.0m	10m	65	20m		50n	45p	CA		
106▼#	MIL5451	3§	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	65	20m	35n		45p§	BD		PDØ
107▼#	MIL5452	3*	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	50	20m	35n		45p§	BD		PDØ
108▼#	MIL5458	3△	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	50	20m	35n		45p§	BD		PDØ
109▼#	MIL5459	3#	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	65	20m	35n		45p§	BD		PDØ
110▼#	MILB5451	3§	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	40	20m	35n		45p§	BD		PDØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 PWR. DISS. Pcase (W)	MAX. RATINGS @ 25°C DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1▼#	MILB5452	3*	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	20	20m	35n		45p§	BD		PDØ
2▼#	MILB5458	3Δ	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	20	20m	35n		45p§	BD		PDØ
3▼#	MILB5459	3#	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	40	20m	35n		45p§	BD		PDØ
4▼#	MILS5451	3§	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	65	20m	35n		45p§	BD		PDØ
5▼#	MILS5452	3*	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	50	20m	35n		45p§	BD		PDØ
6▼#	MILS5458	3Δ	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	50	20m	35n		45p§	BD		PDØ
7▼#	MILS5459	3#	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	65	20m	35n		45p§	BD		PDØ
8▼#	MILSB5451	3§	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	40	20m	35n		45p§	BD		PDØ
9▼#	MILSB5452	3*	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	20	20m	35n		45p§	BD		PDØ
10▼#	MILSB5458	3Δ	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	20	20m	35n		45p§	BD		PDØ
11▼#	MILSB5459	3#	3.0	20m	105m*	35m	5.0 Ø	5A	635n	800u	20m	40	20m	35n		45p§	BD		PDØ
12	MV5152	3	3.0	20m	105m*	35m	5.0	5A*	635n	40mt	20m	28	20m	45n		45p	CA	A	PD16nØ
13	MV5153	3	3.0	20m	105m*	35m	5.0	5A*	635n	4.0mt	20m	64	20m	45n		45p	CA	A	PD16pØ
14	MV5154	3	3.0	20m	105m*	35m	5.0	5A*	635n	8.0mt	20m	24	20m	45n		45p	CA	A	PD16nØ
15	MV5174B	3	3.0	20m	105m*	35m	5.0	5A*	635n	5.0mt	20m	90	20m	45n		45p	CA	A	PD16bØ
16	MV5174C	3	3.0	20m	105m*	35m	5.0	5A*	635n	5.0mt	20m	90	20m	45n		45p	CA	A	PD16cØ
17	MV5177B	3	3.0	20m	105m*	35m	5.0	5A*	635n	3.0mt	20m	180	20m	45n		45p	CA	A	PD16dØ
18	MV5177C	3	3.0	20m	105m*	35m	5.0	5A*	635n	3.0mt	20m	180	20m	45n		45p	CA	A	PD16cØ
19▼	AND700A	3Δ	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD392Ø
20▼	AND700O	3Δ	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD392Ø
21▼	AND703A	3*	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD392Ø
22▼	AND703O	3*	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD392Ø
23▼	AND704A	3§	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD392Ø
24▼	AND704O	3§	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD392Ø
25▼	AND706A	3#	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD392Ø
26▼	AND706O	3#	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD392Ø
27▼	AND710A	3Δ	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD28rØ
28▼	AND710O	3Δ	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD28rØ
29▼	AND713A	3*	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD28rØ
30▼	AND713O	3*	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD28rØ
31▼	AND714A	3§	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD28rØ
32▼	AND714O	3§	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD28rØ
33▼	AND716A	3#	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD28rØ
34▼	AND716O	3#	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD28rØ
35▼	AND720A	3Δ	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257cØ
36▼	AND720O	3Δ	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257cØ
37▼	AND723A	3*	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257cØ
38▼	AND723O	3*	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257cØ
39▼	AND724A	3§	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257cØ
40▼	AND724O	3§	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257cØ
41▼	AND726A	3#	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257cØ
42▼	AND726O	3#	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257cØ
43▼	AND740A	3Δ	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257bØ
44▼	AND740O	3Δ	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257bØ
45▼	AND743A	3*	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257bØ
46▼	AND743O	3*	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257bØ
47▼	AND744A	3§	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257bØ
48▼	AND744O	3§	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257bØ
49▼	AND746A	3#	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD		PD257bØ
50▼	AND746O	3#	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD		PD257bØ
51▼	AND750A	3Δ	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD16vØ
52▼	AND750O	3Δ	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD16yØ
53▼	AND753A	3*	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD16yØ
54▼	AND753O	3*	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD16yØ
55▼	AND754A	3§	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD16yØ
56▼	AND754O	3§	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD16yØ
57▼	AND756A	3#	3.0	20m	120m*	20m	5.0	48	590n	1.5mt	20m		20m	40n			BD	A	PD16vØ
58▼	AND756O	3#	3.0	20m	120m*	20m	5.0	48	600n	1.5mt	20m		20m	40n			BD	A	PD16yØ
59▼	LST4153	3§	3.0	20m	120m	40m	5.0	5A	635n	2.5m	20m	80	20m	45n		40p	BD	A	PD404Ø
60▼	LST4154	3§	3.0	20m	120m	40m	5.0	5A	635n	3.0m	20m	65	20m	45n		40p	BD	A	PD404Ø
61♦	LST5152	3*	3.0	20m	120m	35m	5.0	5A	635n	17m	20m	28	20m	45n	100n	45p	BD	A	PD50rØ
62▼	LST5152R	3*	3.0 §	20m	120m	35m	5.0	5A	635n	40mt	20m	28	20m	45n		45p	BD RES		PD50rØ
63♦	LST5153	3§	3.0	20m	120m	35m	5.0	5A	635n	3.0m	20m	65	20m	45n	100n	40p	BD	A	PD50rØ
64♦	LST5153R	3§	3.0 §	20m	120m	35m	5.0	5A	635n	6.0mt	20m	65	20m	45n		40p	BD RES		PD50rØ
65♦	LST5154	3§	3.0	20m	120m	35m	5.0	5A	635n	3.0m	20m	24	20m	45n	100n	40p	BD	A	PD50rØ
66▼	LST5154R	3§	3.0 §	20m	120m	35m	5.0	5A	635n	8.0mt	20m	24	20m	45n		40p	BD RES		PD50rØ
67	6342-001-505A	3	5.0	40m			5.0			10m	40m	140	40m				Lug		PD227Ø
68	6342-301-505A	3	5.0	40m			5.0			10m	40m	140	40m				Wire		PD227Ø
69▼	LLT251Y	4§			105m	30m	5.0	5A		1.0m	20m						EB	A	PD257aØ
70▼	LLT252YT	4Δ			105m	30m	5.0	5A		2.0m	20m						EB	A	PD257aØ
71▼	LLT253Y	4§			105m	30m	5.0	5A		1.0m	20m						EB	A	PD28tØ
72▼	LLT254YT	4Δ			105m	30m	5.0	5A		2.0m	20m						EB	A	PD28tØ
73▼	LLT255YW	4#			105m	30m	5.0	5A		1.0m	20m						EB	A	PD257aØ
74▼	LLT256YC	4*			105m	30m	5.0	5A		2.0m	20m						EB	A	PD257aØ
75▼	LLT257YW	4#			105m	30m	5.0	5A		1.0m	20m						EB	A	PD28tØ
76▼	LLT258YC	4*			105m	30m	5.0	5A		2.0m	20m						EB	A	PD28tØ
77	521-9208	4	2.0 †	10m		35m			580n	2.0mt								A	PD208Ø
78	6080-004-304	4	2.0	40m			5.0			12m	40m	160	40m						PD226Ø
79	OPL272	4§	2.2 †	20m	150m	50m	3.0			2.5mt	20m							A	PD50qØ
80	OPL1212	4§	2.2 †	20m	150m	50m	3.0			1.0mt	20m							A	PD15cØ
81	OPL1272	4§	2.2 †	20m	150m	50m	3.0			2.5mt	20m							A	PD15cØ
82▼	DCC10018AY	4	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD20Ø
83▼	DCC10018LY	4	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD419Ø
84	ED209Y	4	2.4	10m	100m*	50m*	5.0	5A§	580n	600u	10m	75				50p	BD	A	PD16Ø
85	ED216Y	4	2.4	10m	100m*	50m*	5.0	5A§	580n	600u	10m	65				50p	BD	A	PD17Ø
86	ED226Y	4	2.4	10m	100m*	50m*	5.0	5A§	580n	600u	10m	80				50p	BD	A	PD19Ø
87	ED5053Y	4	2.4	10m	100m*	50m*	5.0	5A§	580n	400u	10m	80				50p	BD	A	PD18aØ
88#	LD36C	4*	2.4	20m		60m			590n	2.0m	10m	50						B	PD77dØ
89#	LD161I	4*	2.4	20m		25m			590n	400u	10m	70						A	PD354☐
90#	LD161II	4*	2.4	20m		25m			590n	600u	10m	70						A	PD354☐
91#	LD491	4§	2.4	20m		25m			590n	1.5m	10m	100						B	PD146☐
92#	LD491A	4§	2.4	20m		25m			590n	500u	10m	100						B	PD146☐
93	NSL5352	4*	2.4	20m	175m	50m	5.0	4A*	575n	500u	20m	15	20m	60n		75p	BD	A	PD50qØ
94	NSL5353	4§	2.4	20m	175m	50m	5.0	4A*	575n	500u	20m	20	20m	60n		75p	BD	A	PD50gØ
95	LLL23	4	2.4 †	25m	100m	30m	3.0			1.0mt	25m							A	PD54Ø
96	MSL25	4	2.4 †	25m	100m	30m	3.0			2.0mt	25m							A	PD213Ø
97▼	L39UR-Y2-2116	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD398aØ
98▼	L39UR-Y2-2316	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD398Ø
99▼	L45RN-Y2-2116	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399aØ
100▼	L45RN-Y2-2316	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399Ø
101▼	L46RN-Y2-2116	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399cØ
102▼	L46RN-Y2-2316	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399bØ
103▼	L58-Y2-T	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD400Ø
104▼	L58-Y2-W	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD400aØ
105▼	L59-Y2-T	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD401Ø
106▼	L59-Y2-W	4	2.5	35m	100m	35m	5.0	5A		3.0mt									PD401aØ
107	OPL212	4§	2.5 †	40m	200m	70m	3.0			1.5mt	40m							A	PD50qØ
108	OPL260	4§	2.5 †	40m	200m	70m	3.0			1.5mt	40m							A	PD50qØ
109	OPL1260	4§	2.5 †	40m	200m	70m	3.0			1.5mt	40m							A	PD15cØ
110▼	E1200	4	2.6	20m		35m			585n	16m					50n	45p		A	PD16fØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	MAX. RATINGS @ 25°C 4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°) -	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	OP004-260	4§	2.6 †	40m	225m	80m	4.0			4.5m†	40m								
2	ORL26	4§	2.6 †	40m	225m	80m	3.0			4.5m†	40m								
3	XC4850Y	4§	2.8	10m			3.0 Ø		635n	600u	10m	80		40n	100n	50p	EB	♦	PD340Ø
4	XC520Y	4*	2.8	10m	115m*	30m	5.0	5A*	585n	1.0m	10m	55		40n	100n	50p	EB	A	PD17Ø
5	XC554Y12	4*	2.8	10m	115m*	30m	5.0	5A*	585n	12m	10m	24		40n	100n	50p	EB	A	PD18aØ
6	XC554Y	4*	2.8	10m	115m*	30m	5.0	5A*	585n	2.0m	10m	24		40n	100n	50p	EB	A	PD18aØ
7	XC556Y3	4§	2.8	10m	115m*	40m	5.0	5A*	585n	3.0m	10m	30		40n	100n	50p	EB	A	PD18aØ
8	XC556Y4	4§	2.8	10m	115m*	40m	5.0	5A*	585n	4.0m	10m	30		40u	100n	50p	EB	A	PD18aØ
9	XC4850-5VY	4§	2.8	10m	115m*	20m	5.0	5A*	585n	400u		80		40n	100n	50p	EB	A	PD340Ø
10	XC5053Y2	4§	2.8	10m	115m*	30m	5.0	5A*	585n	1.5m	10m	80		40n	100n	50p	EB	A	PD18aØ
11	XC5055Y	4	2.8	10m	115m*	30m	5.0	5A*	585n	300u	10m	120		40n	100n	50p	EB	A	PD18aØ
12	AND123Y	4*	2.8	20m	70m*	25m	4.0	57*	585n	500u	20m	40	10m	35n			BD	A	PD279cØ
13	AND124Y	4§	2.8	20m	70m*	25m	4.0	57*	585n	400u	20m	50	10m	35n			BD	A	PD279cØ
14▼	AND205Y	4	2.8	20m	70m	25m	4.0	27	585n	400u	15m		15m	32n			BD	A	PD383☑
15▼#	LT1253Y	4§	2.8	20m	70m	30m	5.0	48	585n	500u	20m		20m	35n			BD	A	PD390Ø
16▼#	LT2251Y	4§	2.8	20m	75m	30m	5.0	28	585n	500u	20m		20m	35n			EB		PD391Ø
17▼#	LT2253Y	4§	2.8	20m	75m	30m	5.0	28	585n	500u	20m		20m	35n			EB		PD391aØ
18#	GL3PY1	4§	2.8	20m	85m*	30m	4.0	27*	575n	1.0m	20m		20m	45n		30p	BD	A	PD279Ø
19#	GL3PY2	4§	2.8	20m	85m*	30m	4.0	27*	575n	1.0m	20m		20m	45n		30p	BD	A	PD279aØ
20#	GL5PY1	4§	2.8	20m	85m*	30m	4.0	28*	575n	1.0m	20m		20m	45n		30p	BD	A	PD280Ø
21#	GL5PY2	4§	2.8	20m	85m*	30m	4.0	28*	575n	1.0m	20m		20m	45n		30p	BD	A	PD280aØ
22	AND113Y	4*	2.8	20m	100m*	25m	4.0	57*	590n	1.0m	15m	55	20m	35n			BD	A	PD215Ø
23	AND114Y	4§	2.8	20m	100m*	25m	4.0	57*	590n	800u	15m	85	20m	35n			BD	A	PD215Ø
24▼#	LT151Y	4§	2.8	20m	105m*	30m*	5.0	48	585n	800u	20m		20m	35n			EB	A	PD389Ø
25▼#	LT156YC	4*	2.8	20m	105m*	30m*	5.0	48	585n	1.0m	20m		20m	35n			EB	A	PD389aØ
26▼#	LT251Y	4§	2.8	20m	105m*	30m*	5.0	48	585n	1.0m	20m		20m	35n			EB	A	PD292Ø
27▼#	LT252YT	4Δ	2.8	20m	105m*	30m*	5.0	48	585n	2.0m	20m		20m	35n			EB	A	PD292Ø
28▼#	LT253Y	4§	2.8	20m	105m*	30m*	5.0	48	585n	1.0m	20m		20m	35n			EB	A	PD28sØ
29▼#	LT254YT	4Δ	2.8	20m	105m*	30m*	5.0	48	585n	2.0m	20m		20m	35n			EB	A	PD28sØ
30▼#	LT255YW	4#	2.8	20m	105m*	30m*	5.0	48	585n	1.0m	20m		20m	35n			EB	A	PD292Ø
31▼#	LT256YC	4*	2.8	20m	105m*	30m*	5.0	48	585n	2.0m	20m		20m	35n			EB	A	PD292Ø
32▼#	LT257YW	4#	2.8	20m	105m*	30m*	5.0	48	585n	1.0m	20m		20m	35n			EB	A	PD28sØ
33▼#	LT258YC	4*	2.8	20m	105m*	30m*	5.0	48	585n	2.0m	20m		20m	35n			EB	A	PD28sØ
34▼#	LT3251Y	4§	2.8	20m	105m	30m	5.0	48	585n	1.0m	20m		20m	35n			EB		PD262a☑
35▼#	LT3253Y	4§	2.8	20m	105m	30m	5.0	48	585n	1.0m	20m		20m	35n			EB		PD262b☑
36▼#	LT4251Y	4§	2.8	20m	105m	30m	5.0	48	585n	1.5m	20m		20m	35n			EB		PD16wØ
37▼#	LT4252YT	4Δ	2.8	20m	105m	30m	5.0	48	585n	2.5m	20m		20m	35n			EB		PD16wØ
38▼#	LT4253Y	4§	2.8	20m	105m	30m	5.0	48	585n	1.5m	20m		20m	35n			EB		PD16xØ
39▼#	LT4254YT	4Δ	2.8	20m	105m	30m	5.0	48	585n	2.5m	20m		20m	35n			EB		PD16xØ
40▼#	LT4255YW	4#	2.8	20m	105m	30m	5.0	48	585n	1.5m	20m		20m	35n			EB		PD16wØ
41▼#	LT4256YC	4*	2.8	20m	105m	30m	5.0	48	585n	2.5m	20m		20m	35n			EB		PD16wØ
42▼#	LT4257YW	4#	2.8	20m	105m	30m	5.0	48	585n	1.5m	20m		20m	35n			EB		PD16xØ
43▼#	LT4258YC	4*	2.8	20m	105m	30m	5.0	48	585n	2.5m	20m		20m	35n			EB		PD16xØ
44▼	LST4353F	4§	2.8	20m	120m	40m	5.0m	5A	585n	500u	10m	80	10m	35n			BD	A	PD404Ø
45▼	5082-4550	4§	3.0	10m		50m	5.0	5A	583n	1.0m	10m	90					BD	♦	PD415Ø
46▼	5082-4555	4§	3.0	10m		50m	5.0	5A	583n	2.2m	10m	90					BD	♦	PD415Ø
47#	CQY96	4§	3.0	10m	60m*	20m	3.0	5A%	580n	500u	10m	60					BD	B	PD232cØ
48#	CQY97	4§	3.0	10m	60m*	20m	3.0	5A%	580n	300u	10m	60		38n			BD	B	PD120bØ
49	YL212	4§	3.0	10m	80m	40m	3.0	5A	585n	1.0m	10m	80						A	PD82Ø
50	YL4484	4§	3.0	10m	80m	40m	3.0	5A	585n	1.6m†	10m	80						A	PD82Ø
51	521-9211	4	3.0	10m	100m	30m	3.0 Ø	5A	580n	800u	10m	60			90n		BD	B	PD77eØ
52	551-0305	4§	3.0	10m	100m	30m	3.0	5A	580n	800u†	10m	60					EB	A	PD382☑
53	MV53152	4*	3.0	10m	105m*	35m*	5.0	5A*	585n	3.0m	10m	70	10m	35n		45p	CA	B	PD47aØ
54	MV53154	4§	3.0	10m	105m*	35m*	5.0	5A*	585n	1.5m	10m	80	10m	35n		45p	CA	B	PD47aØ
55	XC110Y	4§	3.0	10m	115m	25m	5.0	5A	585n	400u	10m	75				50p	BD	A	PD18Ø
56	XC111Y	4*	3.0	10m	115m	25m	5.0	5A	585n	400u	10m	45				50p	BD	A	PD18Ø
57	XC209Y	4§	3.0	10m	115m	25m	5.0	5A	585n	600u	10m	75				50p	BD	A	PD16Ø
58	XC521Y	4§	3.0	10m	115m	25m	5.0	5A	585n	500u	10m	70				10p	CA	A	PD17Ø
59	XC522Y	4*	3.0	10m	115m	25m	5.0	5A	585n	1.0m	10m	55				50p	BD	A	PD17Ø
60	XC526Y2	4§	3.0	10m	115m	25m	5.0	5A	585n	1.5m	10m	70				50p	BD	A	PD17Ø
61	XC526Y	4§	3.0	10m	115m	25m	5.0	5A	585n	500u	10m	70				50p	BD	A	PD17Ø
62	XC554Y6	4*	3.0	10m	115m	25m	5.0	5A	585n	6.0m	10m	24				50p	BD	A	PD18aØ
63	XC556Y2	4§	3.0	10m	115m	25m	5.0	5A	585n	2.0m	10m	30				50p	BD	A	PD18aØ
64	XC556Y	4§	3.0	10m	115m	25m	5.0	5A	585n	600u	10m	30				50p	BD	A	PD18aØ
65	XC5053Y	4§	3.0	10m	115m	25m	5.0	5A	585n	400u	10m	80				50p	BD	A	PD18aØ
66	521-9248	4§	3.0	10m	120m	20m	5.0	5A*	585n	2.2m	10m	90	10m		90n	18p	CA	A	PD62cØ
67	521-9249	4	3.0	10m	120m	20m	5.0	5A*	585n	12m	10m	35	10m		90n	18p	CA	A	PD62cØ
68	550-2304	4	3.0	10m	120m	30m	5.0	5A	585n	2.2m	10m				90n#	18p	CA		PD66b☑
69	550-2305	4	3.0	10m	120m	30m	5.0	5A	585n	2.2m	10m				90n#	18p	CA		PD67b☑
70	550-2306	4	3.0	10m	120m	30m	5.0	5A	585n	2.2m	10m				90n#	18p	CA		PD68b☑
71	HLMP-1400	4§	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	500u	10m	60		38n	90n	15p	CA	B	PD77Ø
72	HLMP-1401	4§	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	1.0m	10m	60		38n	90n	15p	CA	B	PD77Ø
73	HLMP-1402	4§	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	2.5m	10m	60		38n	90n	15p	CA	B	PD77Ø
74	HP5082-4150	4§	3.0	10m	120m	20m	5.0 Ø	5A*	583n	1.0m	10m	90		39n	90n	15p	CA	A	PD180Ø
75	HP5082-4550	4§	3.0	10m	120m*	20m	5.0 Ø	5A*	583n	1.0m	10m	90	10m	27	90n	18p	CA	A	PD50uØ
76	HP5082-4555	4§	3.0	10m	120m*	20m	5.0 Ø	5A*	583n	2.2m	10m	90	10m	27	90n	18p	CA	A	PD50uØ
77	HP5082-4557	4	3.0	10m	120m*	20m	5.0 Ø	5A*	583n	6.0m	10m	35	10m	27	90n	18p	CA	A	PD50uØ
78	HP5082-4558	4	3.0	10m	120m*	20m	5.0 Ø	5A*	583n	12m	10m	35	10m	27	90n	18p	CA	A	PD50uØ
79	HP5082-4584	4§	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	1.0m	10m	60		38n	90n	15p	CA	B	PD77Ø
80	HP5082-4590	4§	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	1.5m	10m	50		37n	90n	18p	CA	A	PD50kØ
81	HP5082-4592	4§	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	4.5m	10m	50		37n	90n	18p	CA	A	PD50kØ
82	HP5082-4595	4	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	4.0m	10m	45		37n	90n	18p	CA	A	PD50kØ
83	HP5082-4597	4	3.0	10m	120m*	20m*	5.0 Ø	5A*	583n	8.0m	10m	45		37n	90n	18p	CA	A	PD50kØ
84	YL4550	4§	3.0	10m	120m	60m	3.0	5A	585n	1.0m	10m	80						A	PD50mØ
85	YL4850	4§	3.0	10m	120m	60m	5.0	5A	585n	1.6m†	10m	80						A	PD50mØ
86	CQX33-1	4§	3.0	20m		60m				1.6m	20m	140						A	PD28kØ
87	CQX33-2	4§	3.0	20m		60m				2.5m	20m	140						A	PD28kØ
88	LD36-2	4§	3.0	20m		60m				1.6m	10m							B	PD77d
89	LD56-2	4§	3.0	20m		60m				1.6m	10m	80						B	PD325Ø
90	LD161	4*	3.0	20m		25m				400u	10m							A	PD354
91♦#	MIL3331	4§	3.0	20m	60m*	35m	5.0	5A	585n	800u	20m	45	20m	35n		45p	BD	A	PD257Ø
92♦#	MIL3332	4*	3.0	20m	60m*	35m	5.0	5A	585n	800u	20m	40	20m	35n		45p	BD	A	PD257Ø
93♦#	MIL3338	4Δ	3.0	20m	60m*	35m	5.0	5A	585n	800u	20m	40	20m	35n		45p	BD	A	PD257Ø
94♦#	MIL3339	4§	3.0	20m	60m*	35m	5.0	5A	585n	800u	20m	45	20m	35n		45p	BD	A	PD257Ø
95#	LD481	4§	3.0	20m	85m	25m	3.0	38§	575n	4.0m	20m	100	20m	25n	50n#	50p	BD	B	PD146b☑
96#	LD481A	4§	3.0	20m	85m	25m	3.0	38§	575n	1.6m	20m	100	20m	25n	50n#	50p	BD	B	PD146b☑
97	550-0304	4§	3.0	20m	100m	50m	3.0	4A	580n	2.0m†	20m	70	20m	30n	10n#		EB	A	PD66☑
98	550-0305	4§	3.0	20m	100m	50m	3.0	4A	580n	2.0m†	20m	70	20m	30n	10n#		EB	A	PD67☑
99	550-0306	4§	3.0	20m	100m	50m	3.0	4A	580n	2.0m†	20m	70	20m	30n	10n#		EB	A	PD68☑
100	FLV411	4	3.0	20m	100m*	35m	5.0	XC§	570n	1.6m	20m	40	20m	40n			BD		PD50vØ
101	CM4-544A	4	3.0	20m	105m	35m	5.0	5A	585n	800u	20m	90	20m		50n	45p	CA		
102	CM4-544B	4§	3.0	20m	105m	35m	5.0	5A*	585n	800u	20m	90			50n	45p	CA	A	PD16kØ
103	CM4-564	4	3.0	20m	105m	35m	5.0	5A	585n	1.0m	20m				50n	45p	CA		
104	CM4-582B	4*	3.0	20m	105m	35m	5.0	5A*	585n	16m	20m	28			50n	45p	CA	A	PD16Ø
105	CM4-582B-2	4	3.0	20m	105m	35m	5.0	5A	585n	24m	20m	28	20m		50n	45p	CA		
106	CM4-583B	4§	3.0	20m	105m	35m	5.0	5A*	585n	3.0m	20m	24	20m		50n	45p	CA	A	PD16Ø
107	CM4-584B	4§	3.0	20m	105m	35m	5.0	5A*	585n	2.5m	20m	65	20m		50n	45p	CA	A	PD16Ø
108	CM4-584B-2	4	3.0	20m	105m	35m	5.0	5A	585n	2.2m	10m	65	20m		50n	45p	CA		
109#	MIL5351	4§	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	65	20m	35n		45p	BD	A	PD258Ø
110♦#	MIL5352	4*	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	50	20m	35n		45p	BD	A	PD258Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	MAX. RATINGS @ 25°C 4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1♦#	MIL5358	4△	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	50	20m	35n		45p	BD	A	PD258Ø
2#	MIL5359	4§	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	65	20m	35n		45p	BD	A	PD258Ø
3♦#	MILB5351	4§	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	40	20m	35n		45p	BD	B	PD16jØ
4♦#	MILB5352	4*	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	20	20m	35n		45p	BD	B	PD16jØ
5♦#	MILB5358	4△	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	20	20m	35n		45p	BD	B	PD16jØ
6♦#	MILB5359	4§	3.0	20m	105m*	35m	5.0	5A	585n	800u	20m	40	20m	35n		45p	BD	B	PD16jØ
7▼#	MILS5351	4§	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	65	20m	35n		45p§	BD		PDØ
8▼#	MILS5352	4*	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	50	20m	35n		45p§	BD		PDØ
9▼#	MILS5358	4△	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	50	20m	35n		45p§	BD		PDØ
10▼#	MILS5359	4#	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	65	20m	35n		45p§	BD		PDØ
11▼#	MILSB5351	4§	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	40	20m	35n		45p§	BD		PDØ
12▼#	MILSB5352	4*	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	20	20m	35n		45p§	BD		PDØ
13▼#	MILSB5358	4△	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	20	20m	35n		45p§	BD		PDØ
14▼#	MILSB5359	4#	3.0	20m	105m*	35m	5.0 Ø	5A	585n	800u	20m	40	20m	35n		45p§	BD		PDØ
15	MV5352	4	3.0	20m	105m*	35m	5.0	5A*	585n	45mt	20m	28	20m	35n		45p	CA	A	PD16aØ
16	MV5353	4	3.0	20m	105m*	35m	5.0	5A*	585n	6.0mt	20m	65	20m	35n		45p	CA	A	PD16aØ
17	MV5354	4§	3.0	20m	105m*	35m	5.0	5A*	585n	10mt	20m	24	20m	35n		45p	CA	A	PD16nØ
18	MV5374B	4	3.0	20m	105m*	35m	5.0	5A*	585n	4.0mt	20m	90	20m	35n		45p	CA	A	PD16bØ
19	MV5374C	4	3.0	20m	105m*	35m	5.0	5A*	585n	4.0mt	20m	90	20m	35n		45p	CA	A	PD16cØ
20	MV5377B	4	3.0	20m	105m*	35m	5.0	5A*	585n	2.0mt	20m	180	20m	35n		45p	CA	A	PD16dØ
21	MV5377C	4	3.0	20m	105m*	35m	5.0	5A*	585n	2.0mt	20m	180	20m	35n		45p	CA	A	PD16eØ
22	MV53124	4	3.0	20m	105m*	35m*	5.0	5A*	585n	1.0m	20m		20m	45n		45p		B	PD319☐
23	1N6093	4	3.0	20m	120m*	35m	5.0	5A*	580n	1.0m	20m	70	20m			100p☐	CA	B	PD84Ø
24	JAN1N6093	4	3.0	20m	120m*	35m	5.0	6A*	605n▼	1.0m	20m	60	20m			100p☐		B	PD376Ø
25	521-9174	4§	3.0	20m	120m	50m	5.0 Ø	5A*	580n	1.6m	20m	100		40n				A	PD50cØ
26	521-9176	4§	3.0	20m	120m	50m	5.0 Ø	5A*	580n	1.6m	20m	100		40n				A	PD52dØ
27	521-9254	4	3.0	20m	120m	50m	5.0 Ø	5A	580n	1.6m	20m	45		100	90n		CA	A	PD50cØ
28	549-0301	4§	3.0	20m	120m	30m	5.0	4A	585n	3.2mt	20m	70			90n		EB	A	PD379Ø
29	5082-4520	4§	3.0	20m	120m	35m	5.0 Ø	5A	583n	1.0m	20m	70		40n	200n	35p	EB	B	PD84Ø
30	5082-4587	4§	3.0	20m	120m	35m	5.0 Ø	5A	583n	1.0m	20m	70		40n	200n	35p	EB	B	PD369Ø
31▼	AND700Y	4△	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD392Ø
32▼	AND703Y	4*	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD392Ø
33▼	AND704Y	4§	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD392Ø
34▼	AND706Y	4#	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD392Ø
35▼	AND710Y	4△	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD28rØ
36▼	AND713Y	4*	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD28rØ
37▼	AND714Y	4§	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD28rØ
38▼	AND716Y	4#	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD28rØ
39▼	AND720Y	4△	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257cØ
40▼	AND723Y	4*	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257cØ
41▼	AND724Y	4§	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257cØ
42▼	AND726Y	4#	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257cØ
43▼	AND740Y	4△	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257bØ
44▼	AND743Y	4*	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257bØ
45▼	AND744Y	4§	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257bØ
46▼	AND746Y	4#	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD		PD257bØ
47▼	AND750Y	4△	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD16yØ
48▼	AND753Y	4*	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD16yØ
49▼	AND754Y	4§	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD16yØ
50▼	AND756Y	4#	3.0	20m	120m*	20m	5.0	48	580n	1.5mt	20m		20m	40n			BD	A	PD16yØ
51	FLV410	4§	3.0	20m	120m*	10m	5.0	5A*	585	1.6m	20m	50	20m	40n			BD	A	PD50vØ
52	FLV440	4§	3.0	20m	120m*	10m	5.0	5A*	585	1.6m	20m	50	20m	40n			BD	A	PD50wØ
53	FLV450	4§	3.0	20m	120m*	10m	5.0	5A*	585	1.6m	20m	50	20m	40n			BD	A	PD50xØ
54	FLV460	4§	3.0	20m	120m*	10m	5.0	5A*	585	1.6m	20m	50	20m	40n			BD	A	PD52bØ
55	HP5082-4520	4§	3.0	20m	120m*	35m*	5.0 Ø	5A*	583n	1.0m	20m	70		36n	200n	35p	CA	B	PD181Ø
56▼	LST4353	4§	3.0	20m	120m	40m	5.0	5A	585n	2.5m	20m	80	20m	35n		40p	BD	A	PD404Ø
57▼	LST4354	4§	3.0	20m	120m	40m	5.0	5A	585n	3.0m	20m	65	20m	35n		40p	BD	A	PD404Ø
58♦	LST5352	4*	3.0	20m	120m	35m	5.0	5A	585n	10m	20m	28	20m	35n	100n	45p	BD	A	PD50rØ
59▼	LST5352R	4*	3.0 §	20m	120m	35m	5.0	5A	585n	45mt	20m	28	20m	35n		45p	BD RES		PD50rØ
60♦	LST5353	4§	3.0	20m	120m	35m	5.0	5A	585n	2.5m	20m	65	20m	35n	100n	40p	BD	A	PD50rØ
61▼	LST5353R	4§	3.0 §	20m	120m	35m	5.0	5A	585n	6.0mt	20m	65	20m	35n		40p	BD RES		PD50rØ
62♦	LST5354	4§	3.0	20m	120m	35m	5.0	5A	585n	3.0m	20m	24	20m	35n	100n	40p	BD	A	PD50rØ
63▼	LST5354R	4§	3.0 §	20m	120m	35m	5.0	5A	585n	10mt	20m	24	20m	35n		40p	BD RES		PD50rØ
64	ED553Y	4	3.0	20m	180m*	60m*	3.0	58§	575n	450u	30m	90		28n	5.0n#	80p	CA	A	PD28dØ
65#	CQX33I	4§	3.0	20m	200m	60m	5.0	5A%	590n	1.6m	20m	140		35n	100n#	18p		B	PD325aØ
66#	CQX33II	4§	3.0	20m	200m	60m	5.0	5A%	590n	2.5m	20m	140		35n	100n#	18p		B	PD325aØ
67#	LD36I	4§	3.0	20m	200m	60m	5.0	5A%	590n	1.0m	10m	70		35n	100n#	18p		B	PD77dØ
68#	LD36II	4§	3.0	20m	200m	60m	5.0	5A%	590n	1.6m	10m	70		35n	100n#	18p		B	PD77dØ
69#	LD56C	4*	3.0	20m	200m	60m	5.0	5A%	590n	10m	10m	24		35n	100n#	18p		B	PD325bØ
70#	LD56CA	4*	3.0	20m	200m	60m	5.0	5A%	590n	6.0m	10m	24		35n	100n#	18p		B	PD325bØ
71#	LD56I	4§	3.0	20m	200m	60m	5.0	5A%	590n	1.0m	10m	80		35n	100n#	18p		B	PD325Ø
72#	LD56II	4§	3.0	20m	200m	60m	5.0	5A%	590n	1.6m	10m	80		35n	100n#	18p		B	PD325Ø
73#	LD35A	4§	3.0	20m	210m	60m	3.0	5A§	575n	600u	20m	70	20m	25n	50n#	45p	BD	B	PD77dØ
74#	LD35I	4§	3.0	20m	210m	60m	3.0	5A§	575n	2.5m	20m	70	20m	25n	50n#	45p	BD	B	PD77dØ
75#	LD35II	4§	3.0	20m	210m	60m	3.0	5A§	575n	4.0m	20m	70	20m	25n	50n#	45p	BD	B	PD77dØ
76#	LD55A	4	3.0	20m	210m	60m	3.0	5A§	575n	800u	20m	50	20m	25n	50n#	45p	BD	B	PD28hØ
77#	LD55I	4	3.0	20m	210m	60m	3.0	5A§	575n	3.0m	20m	50	20m	25n	50n#	45p	BD	B	PD28hØ
78#	LD55II	4	3.0	20m	210m	60m	3.0	5A§	575n	5.0m	20m	50	20m	25n	50n#	45p	BD	B	PD28hØ
79	TIL213	4	3.0	25m	100m*	30m	3.0	48%	570n	800m	25m			32n				A	PD33kØ
80	HLMP-0400	4§	3.0	25m	120m*	30m*	5.0 Ø	5A*	583n	1.0m	25m	100		38n	90n	17p	CA	A	PD262☐
81	HLMP-0401	4§	3.0	25m	120m*	30m*	5.0 Ø	5A*	583n	2.0m	25m	100		38n	90n	17p	CA	A	PD262☐
82	HP5082-4570	4§	3.0	25m	120m*	30m*	5.0	5A*	583n	1.0m	15m	100		38n	90n	17p	CA	A	PD262☐
83▼	TIL212-1	4§	3.2	20m		50m	5.0	5A	580n	800u	20m	60	20m				BD	♦	PD416Ø
84▼	TIL212-2	4§	3.2	20m		50m	5.0	5A	580n	2.1m	20m	60	20m				BD	♦	PD416Ø
85▼	TIL224-1	4§	3.2	20m		50m	5.0	5A	580n	2.1m	20m	60	20m				BD	♦	PD415Ø
86▼	TIL224-2	4§	3.2	20m		50m	5.0	5A	580n	6.0m	20m	60	20m				BD	♦	PD415Ø
87▼	TIL227-1	4*	3.2	20m		50m	5.0	5A	580n	6.0m	20m	25	20m				BD	♦	PD415Ø
88▼	TIL227-2	4*	3.2	20m		50m	5.0	5A	580n	15m	20m	25	20m				BD	♦	PD415Ø
89#	CQX12	4§	3.2	20m	100m%	50m	5.0	XA§	590n	3.5m	20m	50		40n		100p§	CA	A	PD231Ø
90#	CQX27	4	3.2	20m	100m*	30m	5.0	2A%	590n	1.3m	20m	30		40n		50p	CA	B	PD120cØ
91▼#	CQX27N	4	3.2	20m	100m	30m	5.0	2A%	590n	1.3m	20m	25		40n		50p§	CA	A	PD393Ø
92#	CQX37	4	3.2	20m	100m*	30m	5.0	2A%	590n	6.0m	20m	30		40n		50p	CA	B	PD232bØ
93#	CQY74L	4§	3.2	20m	100m	50m	5.0	2A%	590n	1.0m	20m	80		40n		100p§	CA	B	PD232Ø
94#	CQY75	4	3.2	20m	100m	50m	3.0	2A%	590n	400u	20m	40		40n			CA	B	PD11Ø
95▼#	CQY75N	4	3.2	20m	100m	30m	5.0	2A§	590n	1.0m	20m	40		40n		50p§	CA	A	PD394Ø
96#	CQY87	4§	3.2	20m	100m*	50m	5.0	2A%	590n	1.0m	20m	90		40n		100p§	CA	B	PD13cØ
97▼#	CQY87NA	4	3.2	20m	100m	30m	5.0	2A§	590n	1.0m	20m	60		40n		50p§	CA	A	PD393Ø
98▼#	CQY87NB	4	3.2	20m	100m	30m	5.0	2A§	590n	2.0m	20m	60		40n		50p§	CA	A	PD393Ø
99#	V170P	4§	3.2	20m	100m%	50m	5.0	XA§	590n	2.0m	20m	80		40n		100p§	CA	B	PD232Ø
100▼#	CQX30	4	3.2	20m	150m	50m	5.0	5A%	590n	1.0m	20m	50		40n		100p§	CA	A	PD395Ø
101▼#	CQX32#2	4	3.2	20m	200m	50m	5.0	5A%	590n	1.0m	20m	50		40n		100p§	CA	A	PD395Ø
102	YL56	4	3.5	20m	80m	25m	3.0		575n	2.0mt	20m								
103#	GPC120	4	3.5	40m			6.0		575n	1.9kØ	40m			60n	40n#	10p§	BD		*
104#	GPL120	4	3.5	40m		50m	6.0	X7☐	575n	22mt	40m				40m#	70p	BD	B	PD245Ø
105#	GPL121	4§	3.5	40m		50m	6.0	X7☐	575n	22mt	40m				40m#	70p	BD	B	PD245Ø
106#	GPL122	4	3.5	40m		50m	6.0	X7☐	575n	22mt	40m				40m#	70p	BD	B	PD245Ø
107	LLL27	4	3.6	25m	150m	40m	3.0	48	580n	800u	25m	30	25m	50n		35p	BD	A	PD54Ø
108	MSL27	4§	3.6	25m	150m	40m	3.0	48	580n	800u	25m	30	25m	50n		35p	BD	A	PD55Ø
109	OSL21	4	3.7	40m	150m	50m	4.0	5A	580n	1.2m	40m	100	40m	35n		50p	BD	A	PD59Ø
110	OSL21S	4	3.7	40m	150m	50m	4.0	5A	580n	1.2m	40m	100	40m	35n		50p	BD	A	PD58Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 MAX. RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	ED220Y	4§	3.8	20m	225m	80m	3.0	5A	580n	1.5m	20m	60	20m				BD	A	PD56aØ
2	MV53	4	4.5	50m	225m*	50m	5.0	5A*	589n	1.5mt	50m		20m	35n			BD	B	PD88Ø
3	XC209-5VG	4§	5.0 §	20m	115m*	20m	5.0	5A*	565n	600u		75		30n	100n	50p	BD	A	PD16Ø
4	6082-004-304	4	5.0	40m			5.0			12m	40m	160	40m						PD226Ø
5#	KL101A	4§	5.5	10m		10m		17*		10 $	10m						BI		PD337
6#	KL101V	4§	5.5	20m		20m		17*		15 $	20m						BI		PD337
7#	KL101B	4§	5.5	40m		40m		17*		20 $	40m						BI		PD337
8▼	L39UR-Y6-2116	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD398aØ
9▼	L39UR-Y6-2316	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD398Ø
10▼	L45RN-Y6-2116	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD399aØ
11▼	L45RN-Y6-2316	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD399Ø
12▼	L46RN-Y6-2116	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD399cØ
13▼	L46RN-Y6-2316	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD399bØ
14▼	L58-Y6-W	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD400aØ
15▼	L59-Y6-W	4	6.0	35m	100m	35m	5.0	5A		3.0mt									PD401aØ
16#	GPL5	4	6.0	250m		1.0 §	6.0	X6☑	575n	90m§	250m			50n	40n#		BD		PD243Ø
17	XC5053-5VY	4§	7.5 §	10m		20m	7.0	5A	585n	400u	10m	80						A	PD18aØ
18▼	L39UR-Y12-2116	4	12	35m	100m	35m	5.0	5A		3.0mt									PD398aØ
19▼	L39UR-Y12-2316	4	12	35m	100m	35m	5.0	5A		3.0mt									PD398Ø
20▼	L45RN-Y12-2116	4	12	35m	100m	35m	5.0	5A		3.0mt									PD399aØ
21▼	L45RN-Y12-2316	4	12	35m	100m	35m	5.0	5A		3.0mt									PD399Ø
22▼	L46RN-Y12-2116	4	12	35m	100m	35m	5.0	5A		3.0mt									PD399cØ
23▼	L46RN-Y12-2316	4	12	35m	100m	35m	5.0	5A		3.0mt									PD399bØ
24▼	L58-Y12-W	4	12	35m	100m	35m	5.0	5A		3.0mt									PD400aØ
25▼	L59-Y12-W	4	12	35m	100m	35m	5.0	5A		3.0mt									PD401aØ
26▼	L39UR-Y24-2116	4	24	35m	100m	35m	5.0	5A		3.0mt									PD398aØ
27▼	L39UR-Y24-2316	4	24	35m	100m	35m	5.0	5A		3.0mt									PD398Ø
28▼	L45RN-Y24-2116	4	24	35m	100m	35m	5.0	5A		3.0mt									PD399aØ
29▼	L45RN-Y24-2316	4	24	35m	100m	35m	5.0	5A		3.0mt									PD399Ø
30▼	L46RN-Y24-2116	4	24	35m	100m	35m	5.0	5A		3.0mt									PD399cØ
31▼	L46RN-Y24-2316	4	24	35m	100m	35m	5.0	5A		3.0mt									PD399bØ
32▼	L58-Y24-W	4	24	35m	100m	35m	5.0	5A		3.0mt									PD400aØ
33▼	L59-Y24-W	4	24	35m	100m	35m	5.0	5A		3.0mt									PD401aØ
34▼	LLT231G	5§			105m	30m	5.0	5A		500u	20m						BD	A	PD257aØ
35▼	LLT232GT	5Δ			105m	30m	5.0	5A		1.0m	20m						BD	A	PD257aØ
36▼	LLT233G	5§			105m	30m	5.0	5A		500u	20m						BD	A	PD28tØ
37▼	LLT234GT	5Δ			105m	30m	5.0	5A		1.0m	20m						BD	A	PD28tØ
38▼	LLT235GW	5#			105m	30m	5.0	5A		1.0m	20m						BD	A	PD257aØ
39▼	LLT236GC	5*			105m	30m	5.0	5A		1.5m	20m						BD	A	PD257aØ
40▼	LLT237GW	5#			105m	30m	5.0	5A		1.0m	20m						BD	A	PD28tØ
41▼	LLT238GC	5*			105m	30m	5.0	5A		1.5m	20m						BD	A	PD28tØ
42	521-9201	5	2.0 †	10m		35m			565n	2.0mt								A	PD208Ø
43#	LN33SGP	5§	2.0 †	20m	80m	30m	4.0	17*	560n	100ut	15m		20m	25n			BD	A	PD118aØ
44#	LN31GP	5§	2.0 †	20m	100m	25m	4.0	27*	560n	2.0mt	15m		20m	25n			BD	A	PD215
45	6080-005-304	5	2.0	40m			5.0			3.0m	40m	120	40m						PD226Ø
46	6340-005-505G	5	2.0	40m			5.0			5.0m	40m	130	40m				Lug		PD227Ø
47	6340-305-505G	5	2.0	40m			5.0			5.0m	40m	130	40m				Wire		PD227Ø
48#	LN31GCP	5*	2.1 †	20m	100m*	25m	4.0	17*	560n	500u	15m		20m	25n			BD	A	PD215Ø
49	1920G	5	2.1	25m	110m	40m	3.0	26	560n	10mt	25m						BD	A	PD289Ø
50	1922G	5	2.1 †	25m	110m	40m	3.0	26	560n	10mt	25m							A	PD290Ø
51#	LN37GCP	5*	2.1 †	40m	125m*	45m	4.0	17*	560n	300u	20m		20m	25n			BD	A	PD126Ø
52	OPL271	5§	2.2 †	20m	150m	50m	3.0			2.5mt	20m							A	PD50qØ
53	OPL1211	5§	2.2 †	20m	150m	50m	3.0			1.0mt	20m							A	PD15cØ
54	OPL1271	5§	2.2 †	20m	150m	50m	3.0			2.5mt	20m							A	PD15cØ
55#	LN33GP.L	5§	2.2 †	30m	80m	30m	4.0	28*	560n	700ut	20m	60	20m	30n			BD	A	PD118e
56#	LN35BP	5§	2.2 †	30m	80m	30m	4.0	28*	560n	2.5mt	20m	35	20m	30n			BD	A	PD212
57#	LN35GCP	5*	2.2 †	30m	80m	30m	4.0	28*	560n	2.0mt	20m	35	20m	30n		30p§	BD	A	PD212
58#	LN35GP	5§	2.2 †	30m	80m	30m	4.0	28*	560n	800ut	20m	70	20m	30n		30p§	BD	A	PD212
59#	LN36BP	5§	2.2 †	30m	80m	30m	4.0	28*	560n	600ut	20m	15	20m	30n			BD	A	PD222
60#	LN38GP	5§	2.2 †	30m	80m	30m	4.0	28*	560n	1.0mt	20m		20m	30n			BD	A	PD322
61#	LN39GP	5	2.2 †	30m	80m	30m	4.0	28	560n	1.5mt	20m			30n			BD	A	PD322aØ
62#	LN310GP	5§	2.2 †	30m	80m	30m	4.0	28*	560n	600ut	20m		20m	30n			BD	A	PD323
63#	LN311GP	5	2.2 †	30m	80m	30m	4.0	28	560n	600ut	20m			30n			BD	A	PD361a
64#	LN312GP	5	2.2 †	30m	80m	30m	4.0	28	560n	600ut	20m			30n			BD	A	PD362
65▼	DCC10018AG	5	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD20Ø
66▼	DCC10018LG	5	2.3	10m	80m*	30m	15	58*	690n	1.0m	10m	180		50n	50n	80p	BD	A	PD419Ø
67	ED209G	5	2.4	10m	100m*	50m*	5.0	5A§	560n	600u	10m	75				50p	BD	A	PD16Ø
68	ED216G	5	2.4	10m	100m*	50m*	5.0	5A§	560n	600u	10m	65				50p	BD	A	PD17Ø
69	ED226G	5	2.4	10m	100m*	50m*	5.0	5A§	560n	600u	10m	80				50p	BD	A	PD19Ø
70	ED5053G	5	2.4	10m	100m*	50m*	5.0	5A§	560n	400u	10m	80				50p	BD	A	PD18aØ
71#	LD171I	5*	2.4	20m		25m			560n	600u	10m	70					BD	A	PD354☑
72#	LD171II	5*	2.4	20m		25m			560n	1.0m	10m	70					BD	A	PD354☑
73	LLL13	5	2.4 †	25m	100m	30m	3.0			1.0mt	25m							A	PD54Ø
74	MSL15	5	2.4 †	25m	100m	30m	3.0			2.0mt	25m							A	PD213Ø
75	CSL310L#2	5*	2.4 †	25m	225m	80m				4.0mt	25m						BD	A	PD33cØ
76#	SG205D	5§	2.5	20m	100m	40m	5.0	X8§	565n	2.0mt	20m	20		30n		60p	CA	A	PD285Ø
77#	SG205T	5	2.5	20m	100m	40m	5.0	X8§	565n	4.0mt	20m	16		30n		60p	CA	A	PD285Ø
78▼	L39UR-G2-2112	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD398aØ
79▼	L39UR-G2-2312	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD398Ø
80▼	L45RN-G2-2112	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399aØ
81▼	L45RN-G2-2312	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399Ø
82▼	L46RN-G2-2112	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399cØ
83▼	L46RN-G2-2312	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD399bØ
84▼	L58-G2-T	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD400Ø
85▼	L58-G2-W	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD400aØ
86▼	L59-G2-T	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD401Ø
87▼	L59-G2-W	5	2.5	35m	100m	35m	5.0	5A		3.0mt									PD401aØ
88	OPL211	5§	2.5 †	40m	200m	70m	3.0			1.5mt	40m							A	PD50qØ
89	OPL250	5§	2.5 †	40m	200m	70m	3.0			1.5mt	40m							A	PD50qØ
90	OPL1250	5§	2.5 †	40m	200m	70m	3.0			1.5mt	40m							A	PD15cØ
91	LSM13	5§	2.5 †	40m	225m	80m	3.0			1.6mt	40m							A	PD50nØ
92	LSM13L	5§	2.5 †	40m	225m	80m	3.0			1.6mt	40m							A	PD50pØ
93▼	E1300	5	2.6	20m		35m			565n	5.0m					50n	45p		A	PD16fØ
94	AND121G	5Δ	2.6	20m	60m*	20m	4.0	57*	565n	500u	20m	50	20m	25n			BD	A	PD331☑
95	AND122G	5*	2.6	20m	60m*	20m	4.0	57*	565n	500u	20m	50	20m	25n			BD	A	PD331☑
96	AND101RG#2	5§	2.6	20m	75m*	25m	4.0	57*	560n	300u	20m	180	20m	25n			BD	♦	PD332Ø
97#	TLRG101#2	5§	2.6	20m	75m*	25m	4.0	27*	560n	300u	20m	180	20m	100n			BD	♦	PD332Ø
98	AND102G	5§	2.6	20m	80m*	30m	4.0	57*	560n	50u	15m	200	20m	25n			BD	A	PD118aØ
99	AND102GKB	5§	2.6	20m	80m*	30m	4.0	57*	560n	50u	15m	200	20m	25n			BD	A	PD359Ø
100	AND102GKW	5§	2.6	20m	80m*	30m	4.0	57*	560n	50u	15m	200	20m	25n			BD	A	PD359Ø
101	AND108G	5*	2.6	20m	80m*	30m	4.0	57*	560n	100u	15m	200	20m	25n			BD	A	PD118aØ
102	AND108GKB	5*	2.6	20m	80m*	30m	4.0	57*	560n	100u	15m	200	20m	25n			BD	A	PD359Ø
103	AND108GKW	5*	2.6	20m	80m*	30m	4.0	57*	560n	100u	15m	200	20m	25n			BD	A	PD359Ø
104	AND202G	5Δ	2.6	20m	80m*	30m	4.0	57*	560n	50u	15m	200	20m	25n			BD	A	PD330Ø
105#	TLG102	5§	2.6	20m	80m*	30m	4.0	27*	560n	50u	15m	220	20m	25n	1.0n☑		BD	A	PD118aØ
106#	TLG102KB	5§	2.6	20m	80m*	30m	4.0	27*	560n	50u	15m	200	20m	25n			BD	A	PD359Ø
107#	TLG102KW	5§	2.6	20m	80m*	30m	4.0	27*	560n	50u	15m	200	20m	25n			BD	A	PD359Ø
108#	TLG108	5*	2.6	20m	80m*	30m	4.0	27*	560n	100u	15m	220	20m	25n	1.0n☑		BD	A	PD118aØ
109#	TLG108KB	5*	2.6	20m	80m*	30m	4.0	27*	560n	100u	15m	200	20m	25n			BD	A	PD359Ø
110#	TLG108KW	5*	2.6	20m	80m*	30m	4.0	27*	560n	100u	15m	200	20m	25n			BD	A	PD359Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1#	TLG202	5*	2.6	20m	80m*	30m	4.0	27*	560n	50u	15m		20m	25n			BD	A	PD330☐
2#	LN32	5	2.6	30m	80m*	30m	3.0	28*	560n	1.2kØ	20m	60	20m	30n		60p	BD	A	PD124Ø
3	OP004-160	5§	2.6 †	40m	225m	80m	4.0			4.5m†	40m								
4	ORL16	5§	2.6 †	40m	225m	80m	3.0			4.5m†	40m								
5	XC4850G	5§	2.8	10m			3.0 Ø		635n	600u	10m	80		40n	100n	50p	BD	♦	PD340Ø
6	XC110G	5§	2.8	10m	115m	40m	5.0	5A	565n	400u	10m	75				50p	BD	A	PD18Ø
7	XC111G	5*	2.8	10m	115m	40m	5.0	5A	565n	400u	10m	45				50p	BD	A	PD18Ø
8	XC209G	5§	2.8	10m	115m	40m	5.0	5A	565n	600u	10m	75				50p	BD	A	PD16Ø
9	XC520G	5*	2.8	10m	115m*	40m	5.0	5A*	565n	1.0m	10m	55		30n	100n	50p	BD	A	PD17Ø
10	XC521G	5§	2.8	10m	115m	40m	5.0	5A	565n	500u	10m	70				10p	BD	A	PD17Ø
11	XC522G	5*	2.8	10m	115m	40m	5.0	5A	565n	1.0m	10m	55				50p	BD	A	PD17Ø
12	XC526G2	5§	2.8	10m	115m	40m	5.0	5A	565n	1.5m	10m	70				50p	BD	A	PD17Ø
13	XC526G	5§	2.8	10m	115m	40m	5.0	5A	565n	500u	10m	70				50p	BD	A	PD17Ø
14	XC554G6	5*	2.8	10m	115m	40m	5.0	5A	565n	6.0m	10m	24				50p	BD	A	PD18aØ
15	XC554G15	5*	2.8	10m	115m*	40m	5.0	5A*	565n	15m	10m	24		30n	100n	50p	BD	A	PD18aØ
16	XC554G24	5*	2.8	10m	115m*	40m	5.0	5A*	565n	24m	10m	24		30n	100n	50p	BD	A	PD18aØ
17	XC554G	5*	2.8	10m	115m*	40m	5.0	5A*	565n	2.0m	10m	24		30n	100n	50p	BD	A	PD18aØ
18	XC556G2	5§	2.8	10m	115m	40m	5.0	5A	565n	2.0m	10m	30				50p	BD	A	PD18aØ
19	XC556G3	5§	2.8	10m	115m*	40m	5.0	5A*	565n	3.0m	10m	30		30n	100n	50p	BD	A	PD18aØ
20	XC556G4	5§	2.8	10m	115m*	40m	5.0	5A*	565n	3.0m	10m	30		30n	100n	50p	BD	A	PD18aØ
21	XC556G	5§	2.8	10m	115m	40m	5.0	5A	565n	600u	10m	30				50p	BD	A	PD18aØ
22	XC4850-5VG	5§	2.8	10m	115m*	20m	5.0	5A*	565n	400u		80		30n	100n	50p	BD	A	PD340Ø
23	XC5053G2	5§	2.8	10m	115m*	20m	5.0	5A*	565n	1.5m	10m	80		30n	100n	50p	BD	A	PD18aØ
24	XC5053G	5§	2.8	10m	115m	40m	5.0	5A	565n	400u	10m	80				50p	BD	A	PD18aØ
25	XC5054G	5§	2.8	10m	115m	40m	5.0	5A	565n	200u	10m	30				50p	BD	A	PD18aØ
26	XC5055G	5§	2.8	10m	115m	40m	5.0	5A	565n	300u	10m	120				10p	BD	A	PD18aØ
27	AND123G	5*	2.8	20m	70m*	25m	4.0	57*	565n	300u	20m	40	10m	25n			BD	A	PD279c☐
28	AND124G	5§	2.8	20m	70m*	25m	4.0	57*	565n	100u	20m	50	10m	25n			BD	A	PD279c☐
29▼	AND205G	5	2.8	20m	70m	25m	4.0	27	565n	500u	15m		15m	25n			BD	A	PD383☐
30▼#	LT1233G	5§	2.8	20m	70m	30m	5.0	48	565n	300u	20m		20m	30n			EB	A	PD390☐
31#	GL3PG1	5§	2.8	20m	75m	30m	5.0	27*	555n	450u	20m		20m	25n		70p	BD	A	PD279Ø
32#	GL3PG2	5§	2.8	20m	75m	30m	5.0	27*	555n	450u	20m		20m	25n		70p	BD	A	PD279aØ
33#	GL3PG3	5	2.8	20m	75m*	30m	5.0	27*	555n	300u	20m		20m	25n		70p	BD	A	PD279Ø
34#	GL5PG1	5§	2.8	20m	75m	30m	5.0	28*	555n	500u	20m		20m	25n		70p	BD	A	PD280Ø
35#	GL5PG2	5§	2.8	20m	75m	30m	5.0	28*	555n	500u	20m		20m	25n		70p	BD	A	PD280aØ
36#	GL30PG8	5*	2.8	20m	75m	30m	5.0	28*	555n	500u	20m	120	5.0m	100n			BD	A	PD118bØ
37#	GL52PG	5	2.8	20m	75m	30m	5.0	28*	555n	500u	20m	80					BD	A	PD218b
38#	GL52RG#2	5	2.8	20m	75m	30m	5.0	28*	555n	500u	20m	60	20m	100n		70p	BD	M	PD220Ø
39▼#	LT2231G	5§	2.8	20m	75m	30m	5.0	28	565n	400u	20m		20m	30n			BD		PD391Ø
40▼#	LT2233G	5§	2.8	20m	75m	30m	5.0	28	565n	400u	20m		20m	30n			BD		PD391aØ
41#	GL2PG1	5	2.8	20m	85m*	30m	5.0	28*	555n	90u	20m		20m	25n		70p	BD	A	PD333Ø
42#	GL3PY3	5	2.8	20m	85m*	30m	4.0	27*	575n	400u	20m		20m	45n		30p	BD	A	PD279Ø
43#	GL4NG2	5	2.8	20m	85m*	30m	5.0	28*	565n	1.0m	20m		20m	30n		70p	BD	A	PD279bØ
44#	GL4PG2	5	2.8	20m	85m*	30m	5.0	28*	555n	500u	20m		20m	25n		70p	BD	A	PD279bØ
45#	GL4PY2	5	2.8	20m	85m*	30m	4.0	28*	575n	700u	20m		20m	45n		30p	BD	A	PD279bØ
46#	GL5NG6	5	2.8	20m	85m*	30m	5.0	28*	565n	5.0m	20m		20m	30n		70p	BD	A	PD280aØ
47#	GL5PG5	5	2.8	20m	85m*	30m	5.0	28*	555n	1.5m	20m		20m	25n		70p	BD	A	PD280aØ
48#	GL5PY5	5	2.8	20m	85m*	30m	4.0	28*	575n	1.5m	20m		20m	45n		30p	BD	A	PD280aØ
49#	GL9PG2	5	2.8	20m	85m*	30m	5.0	28*	555n	150u	20m		20m	25n		70p	BD	A	PD334☐
50#	GL9PG3	5	2.8	20m	85m*	30m	5.0	28*	555n	150u	20m		20m	25n		70p	BD	A	PD335
51#	GL9PG4	5	2.8	20m	85m*	30m	5.0	28*	555n	150u	20m		20m	25n		70p	BD	A	PD336☐
52	AND113G	5*	2.8	20m	100m*	25m	4.0	57*	565n	3.0m	15m	50	20m	25n			BD	A	PD215Ø
53	AND114G	5§	2.8	20m	100m*	25m	4.0	57*	565n	800u	15m	80	20m	25n			BD	A	PD215Ø
54	AND115G	5*	2.8	20m	100m*	25m	4.0	57*	565n	3.0m	15m	45	20m	25n			BD	A	PD215aØ
55#	SG203D	5§	2.8	20m	100m*	50m	5.0	X8§	565n	3.0m†	20m			30n		60p	BD	A	PD254Ø
56#	SG203T	5	2.8	20m	100m*	50m	5.0	X8§	565n	3.0m†	20m			30n		60p	BD	A	PD254Ø
57#	SG206D	5§	2.8	20m	100m*	40m	4.0	X8§	565n	1.5m†	20m			30n		100p☐	BD	A	PD256Ø
58#	SG206T	5*	2.8	20m	100m*	40m	4.0	X8§	565n	1.5m†	20m			30n		100p☐	BD	A	PD256Ø
59#	TLG113	5	2.8	20m	100m*	25m	4.0	27*	560n	3.5m†	15m		20m	25n			BD	A	PD215Ø
60#	TLG115	5	2.8	20m	100m*	25m	4.0	27*	560n	3.0m†	15m		20m	25n			BD	A	PD215aØ
61▼#	LT131G	5§	2.8	20m	105m*	30m*	5.0	48	565n	500u	20m		20m	30n			BD	A	PD389Ø
62▼#	LT136GC	5*	2.8	20m	105m*	30m*	5.0	48	565n	800u	20m		20m	30n			BD	A	PD389aØ
63▼#	LT231G	5§	2.8	20m	105m*	30m*	5.0	48	565n	500u	20m		20m	30n			BD	A	PD292Ø
64▼#	LT232GT	5Δ	2.8	20m	105m*	30m*	5.0	48	565n	1.0m	20m		20m	30n			BD	A	PD292Ø
65▼#	LT233G	5§	2.8	20m	105m*	30m*	5.0	48	565n	500u	20m		20m	30n			BD	A	PD28sØ
66▼#	LT234GT	5Δ	2.8	20m	105m*	30m*	5.0	48	565n	1.0m	20m		20m	30n			BD	A	PD28sØ
67▼#	LT235GW	5#	2.8	20m	105m*	30m*	5.0	48	565n	1.0m	20m		20m	30n			BD	A	PD292Ø
68▼#	LT236GC	5*	2.8	20m	105m*	30m*	5.0	48	565n	1.5m	20m		20m	30n			BD	A	PD292Ø
69▼#	LT237GW	5#	2.8	20m	105m*	30m*	5.0	48	565n	1.0m	20m		20m	30n			BD	A	PD28sØ
70▼#	LT238GC	5*	2.8	20m	105m*	30m*	5.0	48	565n	1.5m	20m		20m	30n			BD	A	PD28sØ
71▼#	LT3231G	5§	2.8	20m	105m	30m	5.0	48	565n	800u	20m		20m	30n			BD		PD262a☐
72▼#	LT3233G	5§	2.8	20m	105m	30m	5.0	48	565n	800u	20m		20m	30n			BD		PD262b☐
73▼#	LT4231G	5§	2.8	20m	105m	30m	5.0	48	565n	2.5m	20m		20m	30n			BD		PD16wØ
74▼#	LT4232GT	5Δ	2.8	20m	105m	30m	5.0	48	565n	800u	20m		20m	30n			BD		PD16wØ
75▼#	LT4233G	5§	2.8	20m	105m	30m	5.0	48	565n	500u	20m		20m	30n			BD		PD16xØ
76▼#	LT4234GT	5Δ	2.8	20m	105m	30m	5.0	48	565n	1.5m	20m		20m	30n			BD		PD16xØ
77▼#	LT4235GW	5#	2.8	20m	105m	30m	5.0	48	565n	1.5m	20m		20m	30n			BD		PD16wØ
78▼#	LT4236GC	5*	2.8	20m	105m	30m	5.0	48	565n	2.0m	20m		20m	30n			BD		PD16wØ
79▼#	LT4237GW	5#	2.8	20m	105m	30m	5.0	48	565n	1.5m	20m		20m	30n			BD		PD16xØ
80▼#	LT4238GC	5*	2.8	20m	105m	30m	5.0	48	565n	2.0m	20m		20m	30n			BD		PD16xØ
81▼	LST4253F	5§	2.8	20m	120m	40m	5.0m	5A	565n	200u	10m	80	10m	35n			BD	A	PD404Ø
82	NSL5252	5*	2.8	20m	175m	50m	5.0	4A*	565n	500u	20m	15	20m	60n		75p	BD	A	PD50gØ
83	NSL5253	5§	2.8	20m	175m	50m	5.0	4A*	565n	500u	20m	20	20m	60n		75p	BD	A	PD50gØ
84	AND103G	5*	2.8	40m	125m*	45m	4.0	57*	565n	2.0m	20m	50	20m	25n			BD	A	PD126Ø
85	AND103GK	5*	2.8	40m	125m*	45m	4.0	57*	565n	2.0m	20m	50	20m	25n			BD	A	PD328Ø
86	AND105G	5*	2.8	40m	125m*	45m	4.0	57*	565n	1.0m	20m	60	20m	25n			BD	A	PD127Ø
87	AND105GK	5*	2.8	40m	125m*	45m	4.0	57*	565n	1.0m	20m	60	20m	25n			BD	A	PD327Ø
88	AND107G	5*	2.8	40m	125m*	45m	4.0	57*	565n	2.0m	20m	75	20m	25n			BD	A	PD128Ø
89	AND107GK	5*	2.8	40m	125m*	45m	4.0	57*	565n	2.0m	20m	75	20m	25n			BD	A	PD329Ø
90#	TLG103	5*	2.8	40m	125m*	45m	4.0	27*	560n	300u	20m	46	20m	25n	1.0n☐		BD	A	PD126Ø
91#	TLG103K	5*	2.8	40m	125m*	45m	4.0	27*	560n	300u	20m	46	20m	25n	1.0n☐		BD	A	PD328Ø
92#	TLG105	5*	2.8	40m	125m*	45m	4.0	27*	560n	200u	20m	56	20m	25n	1.0n☐		BD	A	PD127Ø
93#	TLG105K	5*	2.8	40m	125m*	45m	4.0	27*	560n	200u	20m	56	20m	25n	1.0n☐		BD	A	PD327Ø
94#	TLG107	5*	2.8	40m	125m*	45m	4.0	27*	560n	300u	20m	74	20m	25n	1.0n☐		BD	A	PD128Ø
95#	TLG107K	5*	2.8	40m	125m*	45m	4.0	27*	560n	300u	20m	74	20m	25n	1.0n☐		BD	A	PD329Ø
96	LD171	5*	3.0	10m		25m				600u	10m							A	PD354
97#	CQY94	5§	3.0	10m	60m*	20m	3.0	5A%	560n	300u	10m	60		30n		35p	BD	B	PD232c☐
98#	CQY95	5§	3.0	10m	60m*	20m	3.0	5A%	560n	300u	10m	60		30n		35p	BD	B	PD120bØ
99	MV52152	5*	3.0	10m	105m*	35m*	5.0	5A*	565n	750u	10m	70	10m	35n		45p	BD	B	PD47aØ
100	MV52154	5§	3.0	10m	105m*	35m*	5.0	5A*	565n	500u	10m	80	10m	35n		45p	BD	B	PD47aØ
101	HP5082-4190	5§	3.0	10m	120m	30m	5.0 Ø	5A*	565n	800u	20m	70		29n	200n	13p	BD	A	PD180Ø
102	521-9242#2	5§	3.0	15m	112m	40m	5.0	2A*	565n	2.0m	15m			30n		100p		♦	PD224b☐
103	521-9244#2	5§	3.0	15m	112m	40m	5.0	2A*	560n	2.0m†	15m			30n		100p			PD224Ø
104	521-9245#2	5§	3.0	15m	112m	40m	5.0	2A*	560n	2.3m†	15m			30n		100p			PD224aØ
105▼	5082-4950	5§	3.0	20m		50m	5.0	5A	565n	1.0m	20m	90					BD	♦	PD415Ø
106▼	5082-4955	5§	3.0	20m		50m	5.0	5A	565n	2.2m	20m	90					BD	♦	PD415Ø
107	CQX13-1	5§	3.0	20m		60m				2.5m	20m							A	PD28kØ
108	CQX13-2	5§	3.0	20m		60m				5.0m	20m							A	PD28kØ
109	LD37-1	5§	3.0	20m		60m				2.0m	20m	70						B	PD77d
110	LD37-2	5§	3.0	20m		60m				3.2m	20m	70						B	PD77d

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF (3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 MAX. RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	SPECTRAL BAND WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	LD57-1	5§	3.0	20m		60m				2.5m	20m							B	PD325Ø
2	LD57-2	5§	3.0	20m		60m				4.0m	20m							B	PD325Ø
3♦#	MIL3231	5§	3.0	20m	60m*	35m	5.0	5A	565n	800u	20m	45	20m	35n		45p	BD	A	PD257Ø
4♦#	MIL3232	5*	3.0	20m	60m*	35m	5.0	5A	565n	800u	20m	40	20m	35n		45p	BD	A	PD257Ø
5▼#	MIL3238	5△	3.0	20m	60m*	35m	5.0 Ø	5A	565n	800u	20m	40	20m	35n		45p§	BD		PDØ
6▼#	MIL3239	5#	3.0	20m	60m*	35m	5.0 Ø	5A	565n	800u	20m	45	20m	35n		45p§	BD		PDØ
7	GL211	5§	3.0	20m	80m	40m	3.0	5A	565n	800u	20m						BD	A	PD82Ø
8	GL4484	5§	3.0	20m	80m	40m	3.0	5A	565n	1.0m†	20m						BD	A	PD82Ø
9#	LD471	5	3.0	20m	85m	25m	3.0	48§	560n	3.2m	20m	100	20m	25n	50n#	50p	BD	B	PD146b☑
10#	LD471A	5	3.0	20m	85m	25m	3.0	48§	560n	1.2m	20m	100	20m	25n	50n#	50p	BD	B	PD146b☑
11	521-9210	5§	3.0	20m	100m	30m	3.0 Ø	5A	565n	800u	20m	60			200n		BD	B	PD77eØ
12	550-0204	5§	3.0	20m	100m	40m	3.0	4A	565n	2.0m†	20m	70	20m	30n	10n#		BD	A	PD66☑
13	550-0205	5§	3.0	20m	100m	40m	3.0	4A	565n	2.0m†	20m	70	20m	30n	10n#		BD	A	PD67☑
14	550-0206	5§	3.0	20m	100m	40m	3.0	4A	565n	2.0m†	20m	70	20m	30n	10n#		BD	A	PD68☑
15	551-0205	5§	3.0	20m	100m	30m	3.0	5A	565n	800u†	20m	60					BD	A	PD382☑
16	CM4-344A	5	3.0	20m	105m	35m	5.0	5A	565n	300u	20m	90	20m		50n	45p	CA		
17	CM4-344B	5§	3.0	20m	105m	35m	5.0	5A*	565n	300u	20m	90			50n	45p	BD	A	PD16kØ
18	CM4-382B	5*	3.0	20m	105m	35m	5.0	5A*	565n	5.0m	20m	28			50n	45p	BD	A	PD16Ø
19	CM4-382B-2	5	3.0	20m	105m	35m	5.0	5A	565n	12m	20m	28	20m		50n	45p	CA		
20	CM4-383B	5§	3.0	20m	105m	35m	5.0	5A*	565n	600u	20m	24	20m		50n	45p	BD	A	PD16Ø
21	CM4-384B	5§	3.0	20m	105m	35m	5.0	5A*	565n	500u	20m	65	20m		50n	45p	BD	A	PD16Ø
22	CM4-384B-2	5	3.0	20m	105m	35m	5.0	5A	565n	2.2m	20m	65	20m		50n	45p	CA		
23#	MIL5251	5§	3.0	20m	105m*	35m	5.0	5A	565n	800u	20m	65	20m	35n		45p	BD	A	PD258Ø
24♦#	MIL5252	5*	3.0	20m	105m*	35m	5.0	5A	565n	800u	20m	50	20m	35n		45p	BD	A	PD258Ø
25▼#	MIL5258	5△	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	50	20m	35n		45p§	BD		PDØ
26▼#	MIL5259	5#	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	65	20m	35n		45p§	BD		PDØ
27♦#	MILB5251	5§	3.0	20m	105m*	35m	5.0	5A	565n	800u	20m	40	20m	35n		45p	BD	B	PD16jØ
28♦#	MILB5252	5*	3.0	20m	105m*	35m	5.0	5A	565n	800u	20m	20	20m	35n		45p	BD	B	PD16jØ
29▼#	MILB5258	5△	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	20	20m	35n		45p§	BD		PDØ
30▼#	MILB5259	5#	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	40	20m	35n		45p§	BD		PDØ
31▼#	MILS5251	5§	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	65	20m	35n		45p§	BD		PDØ
32▼#	MILS5252	5*	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	50	20m	35n		45p§	BD		PDØ
33▼#	MILS5258	5△	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	50	20m	35n		45p§	BD		PDØ
34▼#	MILS5259	5#	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	65	20m	35n		45p§	BD		PDØ
35▼#	MILSB5251	5§	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	40	20m	35n		45p§	BD		PDØ
36▼#	MILSB5252	5*	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	20	20m	35n		45p§	BD		PDØ
37▼#	MILSB5258	5△	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	20	20m	35n		45p§	BD		PDØ
38▼#	MILSB5259	5#	3.0	20m	105m*	35m	5.0 Ø	5A	565n	800u	20m	40	20m	35n		45p§	BD		PDØ
39	MV5252	5	3.0	20m	105m*	35m	5.0	5A*	565n	15m†	20m	28	20m	35n		45p	BD	A	PD16aØ
40	MV5253	5	3.0	20m	105m*	35m	5.0	5A*	565n	1.5m†	20m	65	20m	35n		45p	BD	A	PD16pØ
41	MV5254	5	3.0	20m	105m*	35m	5.0	5A*	565n	3.0m†	20m	24	20m	35n		45p	BD	A	PD16nØ
42	MV5274B	5	3.0	20m	105m*	35m	5.0	5A*	565n	1.0m†	20m	90	20m	35n		45p	BD	A	PD16bØ
43	MV5274C	5	3.0	20m	105m*	35m	5.0	5A*	565n	1.0m†	20m	90	20m	35n		45p	BD	A	PD16cØ
44	MV5277B	5	3.0	20m	105m*	35m	5.0	5A*	565n	600u†	20m	180	20m	35n		45p	BD	A	PD16dØ
45	MV5277C	5	3.0	20m	105m*	35m	5.0	5A*	565n	600u†	20m	180	20m	35n		45p	BD	A	PD16eØ
46	MV52124	5	3.0	20m	105m*	35m*	5.0	5A*	565n	1.0m	20m		20m	45n		45p		B	PD319☑
47	JAN1N6094	5	3.0	20m	120m*	30m	5.0	6A*	562n▼	800u	20m	60	20m			100p☑		B	PD376Ø
48	521-9173	5§	3.0	20m	120m	50m	5.0 Ø	5A*	565n	1.6m	20m	100		40n				A	PD50cØ
49	521-9175	5§	3.0	20m	120m	50m	5.0 Ø	5A*	565n	1.6m	20m	100		40n				A	PD52cØ
50	521-9250	5§	3.0	20m	120m	30m	5.0	5A*	565n	2.2m	20m	90	20m		200n	18p	CA	A	PD62cØ
51	521-9251	5	3.0	20m	120m	30m	5.0	5A*	565n	12m	20m	35	20m		200n	18p	CA	A	PD62cØ
52	521-9253	5	3.0	20m	120m	50m	5.0 Ø	5A	565n	1.6m	20m	45		45n	200n		CA	A	PD50cØ
53	549-0201	5§	3.0	20m	120m	40m	5.0	4A	565n	3.2m†	20m	70			90n		BD	A	PD379Ø
54	550-2204	5	3.0	20m	120m	30m	5.0	5A	565n	2.2m	20m				200n#	18p	CA		PD66b☑
55	550-2205	5	3.0	20m	120m	30m	5.0	5A	565n	2.2m	20m				200n#	18p	CA		PD67b☑
56	550-2206	5	3.0	20m	120m	30m	5.0	5A	565n	2.2m	20m				200n#	18p	CA		PD68b☑
57▼	AND700G	5△	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD392Ø
58▼	AND700P	5△	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD392Ø
59▼	AND703G	5*	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD392Ø
60▼	AND703P	5*	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD392Ø
61▼	AND704G	5§	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD392Ø
62▼	AND704P	5§	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD392Ø
63▼	AND706G	5#	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD392Ø
64▼	AND706P	5#	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD392Ø
65▼	AND710G	5△	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD28rØ
66▼	AND710P	5△	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD28rØ
67▼	AND713G	5*	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD28rØ
68▼	AND713P	5*	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD28rØ
69▼	AND714G	5§	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD28rØ
70▼	AND714P	5§	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD28rØ
71▼	AND716G	5#	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD28rØ
72▼	AND716P	5#	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD28rØ
73▼	AND720G	5△	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257cØ
74▼	AND720P	5△	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257cØ
75▼	AND723G	5*	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257cØ
76▼	AND723P	5*	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257cØ
77▼	AND724G	5§	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257cØ
78▼	AND724P	5§	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257cØ
79▼	AND726G	5#	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257cØ
80▼	AND726P	5#	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257cØ
81▼	AND740G	5△	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257bØ
82▼	AND740P	5△	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257bØ
83▼	AND743G	5*	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257bØ
84▼	AND743P	5*	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257bØ
85▼	AND744G	5§	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257bØ
86▼	AND744P	5§	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257bØ
87▼	AND746G	5#	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD		PD257bØ
88▼	AND746P	5#	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD		PD257bØ
89▼	AND750G	5△	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD16yØ
90▼	AND750P	5△	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD16yØ
91▼	AND753G	5*	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD16yØ
92▼	AND753P	5*	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD16yØ
93▼	AND754G	5§	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD16yØ
94▼	AND754P	5§	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD16yØ
95▼	AND756G	5#	3.0	20m	120m*	20m	5.0	48	565n	1.5m†	20m		20m	40n			BD	A	PD16yØ
96▼	AND756P	5#	3.0	20m	120m*	20m	5.0	48	550n	1.5m†	20m		20m	40n			BD	A	PD16yØ
97	FLV310	5§	3.0	20m	120m*	35m	5.0	5A*	565n	1.6m	20m	50	20m	35n			BD	A	PD50vØ
98	FLV311	5	3.0	20m	120m*	35m	5.0	5A*	565n	1.6m	20m	40	20m	35n			BD	A	PD50vØ
99	FLV340	5§	3.0	20m	120m*	35m	5.0	5A*	565n	1.6m	20m	50	20m	35n			BD	A	PD50wØ
100	FLV350	5§	3.0	20m	120m*	35m	5.0	5A*	565n	1.6m	20m	50	20m	35n			BD	A	PD50xØ
101	FLV360	5§	3.0	20m	120m*	35m	5.0	5A*	565n	1.6m	20m	50	20m	35n			BD	A	PD52bØ
102	GL4850	5§	3.0	20m	120m	60m	3.0	5A	565n	1.0m†	20m						BD	A	PD50mØ
103	GL4950	5§	3.0	20m	120m	60m	5.0	5A	565n	1.0m	20m						BD	A	PD50mØ
104	HLMP-1500	5§	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	500u	20m	60		22n	200n	8.0p	BD	B	PD77Ø
105	HLMP-1501	5§	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	800u	20m	60		22n	200n	8.0p	BD	B	PD77Ø
106	HLMP-1502	5§	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	2.0m	20m	60		22n	200n	8.0p	BD	B	PD77Ø
107	HP5082-4920	5§	3.0	20m	120m*	35m*	5.0 Ø	5A*	565n	800u	25m	70		27n	200n	35p	BD	B	PD181Ø
108	HP5082-4950	5§	3.0	20m	120m*	30m	5.0 Ø	5A*	565n	1.0m	20m	90	20m	18n	200n	18p	BD	A	PD50uØ
109	HP5082-4955	5§	3.0	20m	120m*	30m	5.0 Ø	5A*	565n	2.2m	20m	90	20m	18n	200n	18p	BD	A	PD50uØ
110	HP5082-4957	5	3.0	20m	120m*	30m	5.0 Ø	5A*	565n	6.0m	20m	30	20m	18n	200n	18p	BD	A	PD50uØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

2. EMITTER: LIGHT EMITTING DIODE

IN ORDER OF:(1)COLOR CODE (2)MAX.FWD.VOLT-VF
(3)IF TEST (4)PWR DISS-Pcase & (5)TYPE No.

LINE No.	5 TYPE No.	1 COLOR CODE	2 MAXIMUM FORWARD VOLT VF (V)	3 IF TEST (A)	4 PWR. DISS. Pcase (W)	MAX. RATINGS @ 25°C DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF TEST (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	WIDTH Δλ (m)	RESP. TIME (S)	CAPAC C (F)	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ⍁-RECT. Δ-STRIP *-CHIP
1	HP5082-4958	5	3.0	20m	120m*	30m	5.0 Ø	5A*	565n	12m	20m	30	20m	18n	200n	18p	BD	A	PD50uØ
2	HP5082-4984	5§	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	800u	20m	60		22n	200n	8.0p	BD	B	PD77Ø
3	HP5082-4990	5§	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	2.0m	20m	50		31n	200n	12p	BD	A	PD50kØ
4	HP5082-4992	5§	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	6.0m	20m	50		31n	200n	12p	BD	A	PD50kØ
5	HP5082-4995	5	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	3.5m	20m	40		31n	200n	12p	BD	A	PD50kØ
6	HP5082-4997	5	3.0	20m	120m*	30m*	5.0 Ø	5A*	565n	8.0m	20m	40		31n	200n	12p	BD	A	PD50kØ
7▼	LST4253	5§	3.0	20m	120m	40m	5.0	5A	565n	800u	20m	80	20m	35n		40p	BD	A	PD404Ø
8▼	LST4254	5§	3.0	20m	120m	40m	5.0	5A	565n	1.0m	20m	65	20m	35n		40p	BD	A	PD404Ø
9♦	LST5252	5*	3.0	20m	120m	35m	5.0	5A	565n	2.0m	20m	28	20m	35n	100n	45p	BD	A	PD50rØ
10▼	LST5252R	5*	3.0 §	20m	120m	35m	5.0	5A	565n	15m†	20m	28	20m	35n		45p	BD RES		PD50rØ
11♦	LST5253	5§	3.0	20m	120m	35m	5.0	5A	565n	800u	20m	65	20m	35n	100n	40p	BD	A	PD50rØ
12▼	LST5253R	5§	3.0 §	20m	120m	35m	5.0	5A	565n	1.5m†	20m	65	20m	35n		40p	BD RES		PD50rØ
13♦	LST5254	5§	3.0	20m	120m	35m	5.0	5A	565n	900u	20m	24	20m	35n	100n	40p	BD	A	PD50rØ
14▼	LST5254R	5§	3.0 §	20m	120m	35m	5.0	5A	565n	3.0m†	20m	24	20m	35n		40p	BD RES		PD50rØ
15	ED553G	5	3.0	20m	180m*	60m*	3.0	58§	560n	450u	30m	90		28n	5.0n#	80p	CA	A	PD28dØ
16#	CQX13	5§	3.0	20m	210m	60m	3.0	5A%	560n	2.5m	20m	160		25n	50n#	45p	BD	B	PD325aØ
17#	CQX13I	5	3.0	20m	210m	60m	3.0	5A%	560n	2.5m	20m	160		25n	50n#	45p	BD	A	PD28kØ
18#	CQX13II	5	3.0	20m	210m	60m	3.0	5A%	560n	5.0m	20m	160		25n	50n#	45p	BD	A	PD28kØ
19#	LD37A	5§	3.0	20m	210m	60m	3.0	5A§	560n	500u	20m	70	20m	25n	50n#	45p	BD	B	PD77dØ
20#	LD37C	5*	3.0	20m	210m	60m	3.0	5A%	560n	4.0m	20m	50		25n	50n#	45p	BD	B	PD77dØ
21#	LD37I	5§	3.0	20m	210m	60m	3.0	5A§	560n	2.0m	20m	70	20m	25n	50n#	45p	BD	B	PD77dØ
22#	LD37II	5§	3.0	20m	210m	60m	3.0	5A§	560n	3.0m	20m	70	20m	25n	50n#	45p	BD	B	PD77dØ
23#	LD57A	5	3.0	20m	210m	60m	3.0	5A%	560n	600u	20m	50	20m	25n	50n#	45p	BD	A	PD28hØ
24#	LD57C	5*	3.0	20m	210m	60m	3.0	5A%	560n	20m	10m	12	20m	25n	50n#	45p	BD	A	PD28hØ
25#	LD57CA	5	3.0	20m	210m	60m	3.0	5A%	560n	10m	10m	12		25n	50n#	45p	BD	A	PD28hØ
26#	LD57I	5	3.0	20m	210m	60m	3.0	5A%	560n	2.0m	20m	50	20m	25n	50n#	45p	BD	A	PD28hØ
27#	LD57II	5	3.0	20m	210m	60m	3.0	5A%	560n	4.0m	20m	50	20m	25n	50n#	45p	BD	A	PD28hØ
28	1N6094	5	3.0	25m	120m*	35m	5.0	5A*	560n	800u	25m	80	25m			100p⍁	BD	B	PD84Ø
29	5082-4920	5§	3.0	25m	120m	35m	5.0 Ø	5A	565n	800u	25m	70		30n	200n	35p	BD	B	PD84Ø
30	5082-4987	5§	3.0	25m	120m	35m	5.0 Ø	5A	565n	800u	25m	70		30n	200n	35p	BD	B	PD369Ø
31	HLMP-0500	5§	3.0	25m	120m*	30m*	5.0 Ø	5A*	565n	1.0m	25m	100		22n	200n	17p	BD	A	PD262⍁
32	HLMP-0501	5§	3.0	25m	120m*	30m*	5.0 Ø	5A*	565n	1.5m	25m	100		22n	200n	17p	BD	A	PD262⍁
33	HP5082-4970	5§	3.0	25m	120m*	30m*	5.0	5A*	565n	1.0m	20m	100		22n	200n	17p	BD	A	PD262⍁
34	MV5491#2	5$	3.0	30m	200m*	35m		5A	560n	500u	20m	60		30n			EB		PD89aØ
35#	LN31	5	3.0	40m	120m	40m	3.0	28	560n					30n		50p	BD	A	PD62a
36▼	TIL232-1	5§	3.2	20m		50m	5.0	5A	560n	500u	20m	60	20m				BD	♦	PD416Ø
37▼	TIL232-2	5§	3.2	20m		50m	5.0	5A	560n	1.3m	20m	60	20m				BD	♦	PD416Ø
38▼	TIL234-1	5§	3.2	20m		50m	5.0	5A	560n	800u	20m	60	20m				BD	♦	PD415Ø
39▼	TIL234-2	5§	3.2	20m		50m	5.0	5A	560n	2.1m	20m	60	20m				BD	♦	PD415Ø
40▼	TIL236-1	5*	3.2	20m		50m	5.0	5A	560n	6.0m	20m	25	20m				BD	♦	PD415Ø
41▼	TIL236-2	5*	3.2	20m		50m	5.0	5A	560n	15m	20m	25	20m				BD	♦	PD415Ø
42#	CQX11	5§	3.2	20m	100m%	50m	5.0	XA§	560n	3.5m	20m	50		40n		100p§	CA	A	PD231Ø
43#	CQX26	5	3.2	20m	100m*	30m	5.0	2A%	560n	1.3m	20m	30		40n		50p	BD	B	PD120cØ
44▼#	CQX26N	5	3.2	20m	100m	30m	5.0	2A%	560n	1.3m	20m	25		40n		50p§	BD	A	PD393Ø
45#	CQX36	5	3.2	20m	100m*	30m	5.0	2A%	560n	6.0m	20m	30		40n		50p	BD	B	PD232bØ
46#	CQY72L	5§	3.2	20m	100m	50m	5.0	2A%	560n	1.0m	20m	80		40n		100p§	BD	B	PD232Ø
47▼#	CQY73N	5	3.2	20m	100m	30m	5.0	2A§	560n	1.0m	20m	40		40n		50p§	BD	A	PD394Ø
48#	CQY86	5§	3.2	20m	100m*	50m	5.0	2A%	560n	1.0m	20m	90		40n		100p§	BD	B	PD13cØ
49▼#	CQY86NA	5	3.2	20m	100m	30m	5.0	2A§	560n	1.0m	20m	60		40n		50p§	BD	A	PD393Ø
50▼#	CQY86NB	5	3.2	20m	100m	30m	5.0	2A§	560n	2.0m	20m	60		40n		50p§	BD	A	PD393Ø
51#	V169P	5§	3.2	20m	100m%	50m	5.0	XA§	560n	2.0m	20m	80		40n		100p§	BD	B	PD232Ø
52▼#	CQX29	5	3.2	20m	150m	50m	5.0	5A%	560n	1.0m	20m	50		40n		100p§	BD	A	PD395Ø
53▼#	CQX31#2	5	3.2	20m	200m	50m	5.0	5A%	560n	1.0m	20m	50		40n		100p§	BD	A	PD395Ø
54	GL56	5	3.5	20m	80m*	25m	3.0	5A*	565n	1.0m†	20m				1.0n	20p	BD	B	PD174Ø
55#	GPC140	5	3.5	40m			6.0		565n	875 Ø	40m			40n	40n#	10p§	BD		*
56#	GPL140	5	3.5	40m					565n	7.0m†	40m						BD	A	PD33jØ
57#	GPL141	5	3.5	40m					565n	7.0m†	40m						BD	A	PD33jØ
58#	CQY66	5	3.6	20m	100m*	40m	3.0	4A*	565n	500u	20m		20m	40n			BD		PD33f
59	LLL17	5	3.6	25m	150m	40m	3.0	48	560n	800u	25m	30	25m	35n		35p	BD	A	PD54Ø
60	MSL17	5§	3.6	25m	150m	40m	3.0	48	560n	800u	25m	30	25m	35n		35p	BD	A	PD55Ø
61	OSL11	5	3.7	40m	150m	50m	4.0	5A	560n	1.2m	40m	100	40m	35n		50p	BD	A	PD59Ø
62	OSL11S	5	3.7	40m	150m	50m	4.0	5A	560n	1.2m	40m	100	40m	35n		50p	BD	A	PD58Ø
63	ED220G	5§	3.8	20m	225m	80m	3.0	5A	555n	1.5m	20m	60	20m				BD	A	PD56aØ
64#	CQY73	5	4.0	20m	100m	50m	3.0	2A%	560n	200u	20m	40		40n			BD	B	PD11Ø
65#	AL102V	5	4.5	20m		20m	6.0	67*		20 $	20m						BD		PD235Ø
66	MV52	5	4.5	50m	225m*	50m	5.0	5A*	565n	1.5m†	50m		20m	35n			BD	B	PD88Ø
67	XC5053-5VG	5§	5.0 §	10m		20m	7.0	5A	565n	400u	10m	80						A	PD18aØ
68	XC209-5VY	5§	5.0 §	20m	115m*	20m	5.0	5A*	585n	600u		75		40n	100n	50p	EB	A	PD16Ø
69	6082-005-304	5	5.0	40m			5.0			3.0m	40m	120	40m						PD226Ø
70	6342-005-505G	5	5.0	40m			5.0			5.0m	40m	130	40m				Lug		PD227Ø
71	6342-305-505G	5	5.0	40m			5.0			5.0m	40m	130	40m				Wire		PD227Ø
72	TIL211	5§	5.0 §	50m		50m	3.0	48	564n	800u	25m				300n#	100p	BD	A	PD33Ø
73▼	L39UR-G6-2112	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD398aØ
74▼	L39UR-G6-2312	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD398Ø
75▼	L45RN-G6-2112	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399aØ
76▼	L45RN-G6-2312	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399Ø
77▼	L46RN-G6-2112	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399cØ
78▼	L46RN-G6-2312	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD399bØ
79▼	L58-G6-W	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD400aØ
80▼	L59-G6-W	5	6.0	35m	100m	35m	5.0	5A		3.0m†									PD401aØ
81▼	L39UR-G12-2112	5	12	35m	100m	35m	5.0	5A		3.0m†									PD398aØ
82▼	L39UR-G12-2312	5	12	35m	100m	35m	5.0	5A		3.0m†									PD398Ø
83▼	L45RN-G12-2112	5	12	35m	100m	35m	5.0	5A		3.0m†									PD399aØ
84▼	L45RN-G12-2312	5	12	35m	100m	35m	5.0	5A		3.0m†									PD399Ø
85▼	L46RN-G12-2112	5	12	35m	100m	35m	5.0	5A		3.0m†									PD399cØ
86▼	L46RN-G12-2312	5	12	35m	100m	35m	5.0	5A		3.0m†									PD399bØ
87▼	L58-G12-W	5	12	35m	100m	35m	5.0	5A		3.0m†									PD400aØ
88▼	L59-G12-W	5	12	35m	100m	35m	5.0	5A		3.0m†									PD401aØ
89▼	L39UR-G24-2112	5	24	35m	100m	35m	5.0	5A		3.0m†									PD398aØ
90▼	L39UR-G24-2312	5	24	35m	100m	35m	5.0	5A		3.0m†									PD398Ø
91▼	L45RN-G24-2112	5	24	35m	100m	35m	5.0	5A		3.0m†									PD399aØ
92▼	L45RN-G24-2312	5	24	35m	100m	35m	5.0	5A		3.0m†									PD399Ø
93▼	L46RN-G24-2112	5	24	35m	100m	35m	5.0	5A		3.0m†									PD399cØ
94▼	L46RN-G24-2312	5	24	35m	100m	35m	5.0	5A		3.0m†									PD399bØ
95▼	L58-G24-W	5	24	35m	100m	35m	5.0	5A		3.0m†									PD400aØ
96▼	L59-G24-W	5	24	35m	100m	35m	5.0	5A		3.0m†									PD401aØ
97	ED50	10*	2.0	20m	80m	40m	3.0	5A		300u	20m				1.0n#	90p	CA	A	PD81Ø
98	ED50-03	10§	2.0	20m	80m	40m	3.0	5A		300u	20m				1.0n#	90p	CA	A	PD81Ø
99	RL209-03	10§	2.0	20m	80m*	40m	3.0	5A	650n	300u	20m					90p		A	PD82Ø

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

3. EMITTER: INFRARED EMITTING DIODE

IN ORDER OF: (1)MIN. PWR. OUTPUT (2) IF & (3) TYPE No.

LINE No.	3 TYPE No.	1 MIN. POWER OUTPUT Po (W)	2 IF (A)	MAX FWD VOLTAGE VF (V)	IF (A)	MAX RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	MIN AXIAL INTENSITY Ie W/Sr	IF (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	WIDTH Δλ (m)	RESP. TIME (S)	MATER. & FEATURE MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1#	1A48FB			1.8	100m	180m	100m	7.0	5C§	940n	400u	100m	80		60n	500n	BC	EØ	PD42hØ
2#	1A48FC			1.8	100m	180m	100m	7.0	5C§	940n	600u	100m	80		60n	500n	BC	EØ	PD42hØ
3#	1A48PB			1.7	75m	130m	75m	7.0	49§	940n	1.0m	75m	160		60n	500n	BC	EØ	PD27dØ
4#	1A48PC			1.7	75m	130m	75m	7.0	49§	940n	1.5m	75m	160		60n	500n	BC	EØ	PD27dØ
5	1N6266			1.7	100m	170m*	100m*	3.0	6F*	945n	25m	100m	20		60n☑		BC	YØ	PD171aØ
6#	CQY49C			1.5	50m	150m	100m	2.0	4A%	930n	3.0m	50m	15		50n	600n	BC	E	PD197
7♦	FPE104			1.9	100m	200m	100m	3.0	5A*	890n	3.0m	100m	4.3	100m	40n	10n	BC	B	PD47Ø
8#	HR932			2.0	300m		300m	2.0	05Ø	900n	10 *	300m			30n	10n# FO			PD345Ø
9♦#	HR952			2.0	300m		300m	3.0	4C	900n	10 *	300m			30n	20n#	BC FO	♦	PD345Ø
10♦#	HR953			2.0	300m		300m	3.0	4C	900n	20 *	300m			30n	20n#	BC FO	♦	PD345Ø
11♦#	HR954			2.0	300m		300m	3.0	4C	900n	35 *	300m			30n	20n#	BC FO	♦	PD345Ø
12#	HR982			2.5	300m		300m	2.0	05Ø	900n	10 *	300m			30n	1.0n#	FO	B	PD346Ø
13	OP140			1.7	10m		40m	2.0	48		50u$	40m							PD320☑
14	OP140A			1.7	10m		40m	2.0	48		900u$	40m							PD320☑
15	OP140B			1.7	10m		40m	2.0	48		700u$	40m							PD320☑
16	OP140C			1.7	10m		40m	2.0	48		450u$	40m							PD320☑
17	OP140D			1.7	10m		40m	2.0	48		220u$	40m							PD320☑
18	OP140E			1.7	10m		40m	2.0	48		50u$	40m							PD320☑
19	OP140SL			1.7	20m		40m	2.0	48		50u$	40m						A	PD320☑
20	OP140SLA			1.7	20m		40m	2.0	48		900u$	40m						A	PD320☑
21	OP140SLB			1.7	20m		40m	2.0	48		700u$	40m						A	PD320☑
22	OP140SLC			1.7	20m		40m	2.0	48		450u$	40m						A	PD320☑
23	OP140SLD			1.7	20m		40m	2.0	48		220u$	40m						A	PD320☑
24	OP140SLE			1.7	20m		40m	2.0	48		50u$	40m						A	PD320☑
25	OP160SL			1.6	20m		40m	2.0	48		20u$	20m						B	PD232dØ
26	OP160SLA			1.6	20m		40m	2.0	48		2.0m$	20m						B	PD232dØ
27	OP160SLB			1.6	20m		40m	2.0	48		1.4m$	20m						B	PD232dØ
28	OP160SLC			1.6	20m		40m	2.0	48		850u$	20m						B	PD232dØ
29	OP160SLD			1.6	20m		40m	2.0	48		280u$	20m						B	PD232dØ
30	TIXL474			2.0	100m		100m	2.0	5A%	903n	70u	100m		100m	28n	15n#	BC		PD29Ø
31	TIXL474A			2.0	100m		100m	2.0	5A%	903n	120u	100m		100m	28n	15n#	BC		PD29Ø
32#	CQY36	150n	20m	1.6	50m	80m	50m	5.0	2A%	925n	400u	50m	80		80n	500n#	BC	A	PD10Ø
33#	CQY37	150n	20m	1.6	50m	80m	50m	5.0	2A%	925n	2.2m	50m	25		80n	500n#	BC	A	PD11Ø
34#	CQY31	500n	100m	1.5	100m	150m	100m	4.0	2A%	910n	250u	100m	80		35n	100n#	BC	A☑	PD8Ø
35#	CQY32	500n	100m	1.5	100m	150m	100m	4.0	2A%	910n	4.5m	100m	10		35n	100n#	BC	A☑	PD7Ø
36♦#	CG7000A	700n	50m	2.3	100m		100m	3.0	05*	870n	7.0 *	50m		50m	45n	5.0n#	CE		Ø
37	SE5650	1.5u†	100m							3.8u							BF		PD96Ø
38	SE5651	1.5u†	100m							3.8u							BF		PD96Ø
39	SE5652	5.8u†	100m							3.4u							BF		PD96Ø
40	SE8652	5.8u†	100m							3.4u							BF		PD95Ø
41#	HR982F-2	15u	300m	2.5	300m		300m	2.0	05Ø	900n	10 *	300m			30n		BC FO	B	PD346Ø
42	SE1550	20u	50m							1.06u					60n	20n#	BC		PD93Ø
43	SE2550	20u	50m							1.06u					60n	20n#	BC		PD25aØ
44	SE3550	20u	50m							1.06u					60n	20n#	BC		PD95Ø
45	SE5550	20u	50m							1.06u					60n	20n#	BC		PD96Ø
46	SE6550	20u	50m							1.06u					60n	20n#	BC		PD29Ø
47	SE5751	33u†	100m							6.0u							BG		PD96Ø
48♦	C86008E	40u	200m	2.5	200m		200m	20	46☑	820n			15		60n	3.0n	CE FO	♦	PD371
49	XC03	50u	10m	2.8	10m	100m	30m	5.0	58	697n			100		95n	500n	BD	B	PD368Ø
50	XC04	50u	10m	2.8	10m	115m	40m	5.0	58	697n			100		95n	500n	BD	B	PD368Ø
51#	CQY11C	50u†	20m	1.6	30m	50m	30m	2.0	5C§	880n	1.2m	20m	6.0		40n	30n#	BC	M	PD197aØ
52	MLED92	50u	50m	1.5	50m	215m	100m	3.0	6A§	900n	660u				40n		BC PN	C	PD2Ø
53	MLED910	50u	50m	1.5	50m	350m	150m	3.0	6C§	900n	660u†	50m			40n		BC PN	A	PD9Ø
54#	CQY11B	60u	20m	1.6	30m	50m	30m	2.0	5C§	880n	64u	20m			40n	30n#	BC	M	PD42dØ
55	TXES475C100	60u	100m	2.0	100m		100m	2.0	27☑	790n			50	100m	40n	20n#	CE FO	A☑	PD375bØ
56	SE5653	62u†	100m							3.2u							BF		PD96Ø
57	SE8653	62u†	100m							3.2u							BF		PD95Ø
58	SD2231-012	70u	5.0m	1.5	100m		100m	4.0	6C*	907n			30		22n	30n*	BC FO	AØ	PD95Ø
59	TXES475C050	70u	100m	2.0	100m		100m	2.0	27☑	790n			50	100m	40n	20n#	CE FO	A☑	PD375aØ
60	IRE-160FB	80u	100m	2.2 †	100m		150m%	3.0 %	48*	820n					40n	14n#	FO	A	PD357a
61	TXES475C025	80u	100m	2.0	100m		100m	2.0	27☑	790n			50	100m	40n	20n#	CE FO	A☑	PD375Ø
62	SD2231-013	90u	5.0m	1.5	100m		100m	4.0	6C*	907n			30		22n	30n*	BC FO	AØ	PD95Ø
63#	GLE103	90u	30m	1.3	30m	80m	60m	6.0	4C*	950n			50	30m	45n		BC	A	PD263Ø
64	C30116	100u	50m	3.0	50m		50m		4C☑	1.06u						10n#	CJ	A☑	PD106Ø
65	C30116F	100u	50m	3.0	50m		50m		4C☑	1.06u						10n#	CJ Flat	A☑	PD106aØ
66	SE2450-1	100u	50m	2.0	50m		120m	2.0 Ø	6A*	930n			24			700n#	BC	A	PD25aØ
67	STLD1600-1	100u	50m	2.0	50m		100m	2.0	6A*	930n			24			700n#	BC	A	PD25aØ
68	C30133	100u	200m	2.5	200m		200m	2.0	47☑	820n			36		60n	3.0n#	CE FO	B§	PD100bØ
69	TXES476C100	130u	100m	2.0	100m		100m	2.0	27☑	790n			50	100m	40n	20n#	CE FO	A☑	PD375bØ
70#	GL504	140u	50m	1.4	50m	150m	100m	6.0	4C*	950n			20		45n	1.0u	BC	A	PD12mØ
71	TXES476C050	150u	100m	2.0	100m		100m	2.0	27☑	790n			50	100m	40n	20n#	CE FO	A☑	PD375aØ
72#	CQY50	160u	20m	1.5	50m	150m	100m	2.0	6C§	930n	180u	20m	35		40n	600n#	BC	A	PD25cØ
73	TXES476C025	160u	100m	2.0	100m		100m	2.0	27☑	790n			50	100m	40n	20n#	CE FO	A☑	PD375Ø
74♦#	HR952F	175u	300m	2.0	300m		300m	3.0	25	900n					30n	20n#	BC FO	♦	PD346Ø
75#	HR982F-1	175u	300m	2.5	300m		300m	2.0	05Ø	900n	10 *	300m			30n		BC FO	B	PD346Ø
76#	AL109A	200u	20m	1.2	20m		22m%		68*								BC		PD239☑
77	MLED90	200u	50m	1.5	50m	120m	80m	3.0	48§	900n					40n		BC PN	A	PD1aØ
78	MLED900	200u	50m	1.5	50m	120m	80m	3.0	48§	900n	2.4m†	10m			40n		BC PN	A	PD4Ø
79	MLED930	200u	50m	1.5	100m	250m	150m	3.0	6C§	900n	1.5m†	100m			40n		BC PN	A	PD7Ø
80	SE1450-1	200u	50m	2.0	50m		120m	2.0 Ø	6A*	930n			12			700n#	BC	B☑	PD93a☑
81	STLD1500-1	200u	50m	2.0	50m		100m	2.0	6A*	930n			12			700n#	BC	B	PD93Ø
82#	ZME140	200u	50m	1.5	50m	75m	50m	3.0	18*	900n			60			1.0n		F	PD37Ø
83#	AL106A	200u	100m	1.7	100m		120m*		68*								BC		PD238Ø
84#	TLN103	250u	20m	1.2	20m	75m*	40m	5.0 Ø	27*	940n				20m	50n		BC	A	PD118aØ
85	SE2450-2	270u	50m	1.5	50m		120m	6.0 Ø	6A*	930n			24			700n#	BC	A	PD25aØ
86	SE2460-1	270u	50m	2.0	50m		120m	2.0 Ø	6A*	930n			18			700n#	BC	A	PD25bØ
87	STLD1600-2	270u	50m	1.5	50m		100m	6.0	6A*	930n			24			700n#	BC	A	PD25aØ
88	STLD1700-1	270u	50m	2.0	50m		100m	2.0	6A*	930n			18			700n#	BC	A	PD25bØ
89#	ZME150	300u†	50m	1.3	50m	75m	50m	3.0		900n			15						PD40Ø
90	IRE-160FA	300u	100m	2.2 †	100m		150m%	3.0 %	48*	820n					40n	14n#	FO	A	PD357
91	C30119	300u	200m	2.5			200m	2.0	49☑	850n					50n	3.0n#	CE FO	♦	PD223
92	SE1450-2	350u	50m	1.5	50m		120m	6.0 Ø	6A*	930n			12			700n#	BC	B☑	PD93a☑
93	STLD1500-2	350u	50m	1.5	50m		100m	6.0	6A*	930n			12			700n#	BC	B	PD93Ø
94♦#	HR953F	350u	300m	2.0	300m		300m	3.0	25	900n					30n	20n#	BC FO	♦	PD346Ø
95#	CQY52	400u	20m	1.5	50m	150m	100m	2.0	6C§	930n	450u	20m	35		40n	600n#	BC	A	PD25cØ
96	MFQE100	400u	50m	1.5	50m	250m*	100m	3.0	5C§	810n	2.9m	50m	24			50n	FO	A	PD7g
97	MLED60	400u	50m	1.5	50m	120m	80m	3.0	48§	900n					40n		BC PN	A	PD1aØ
98	OP123	400u	50m	1.6	50m		100m	2.0	6C*	930n			36	50m	50n	700n#	BC	A	PD25fØ
99	SE2460-2	400u	50m	1.5	50m		120m	6.0 Ø	6A*	930n			18			700n#	BC	A	PD25bØ
100	STLD1700-2	400u	50m	1.5	50m		100m	6.0	6A*	930n			18			700n#	BC	A	PD25bØ
101	TIL23	400u	50m	1.5	50m		100m	2.0	6C	940n			35	50m	50n		BC P-N	A	PD25Ø
102#	ZME60	400u	50m	1.5	50m	75m	50m	3.0	5A*	900n			18			1.0n	BC		PD36Ø
103#	AL106B	400u	100m	1.7	100m		120m*		68*								BC		PD238Ø
104	SE6451-1	400u	300m	2.0	300m		160m	6.0 Ø	6A*	910n			120			20n#	BC	A	PD29Ø
105#	CQY58	500u†	20m	1.5	20m	75m*	50m	2.0	5A%	875n	400u	20m	10		50n	20n#	BC	B	PD120aØ
106#	GL410	500u	20m	1.4	20m	100m	65m	6.0	28*	950n				5.0m	45n		BC	B	PD281Ø
107#	MIR30	500u	20m	1.6	20m	75m*	30m	3.0	58	940n			35	20m	50n	300n#	BC	A	PD257Ø
108#	MIR50	500u	20m	1.6	20m	75m*	50m	3.0	58	940n			50	20m	50n	300n#	BC		PD258Ø
109#	MIRB50	500u	20m	1.6	20m	75m*	50m	3.0	58	940n			20	20m	50n	300n#	BC	B	PD16jØ
110▼#	MIRS50	500u	20m	1.6	20m	75m*	50m	3.0	58	940n			50	20m	50n	300n	BC		PDØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. EMITTER: INFRARED EMITTING DIODE

IN ORDER OF: (1)MIN. PWR. OUTPUT (2) IF & (3) TYPE No.

LINE No.	3 TYPE No.	1 MIN. POWER OUTPUT Po (W)	2 IF (A)	MAX FWD VOLTAGE VF (V)	IF (A)	MAX RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	MIN AXIAL INTENSITY Ie W/Sr	IF (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	WIDTH Δλ (m)	RESP. TIME (S)	MATER. & FEATURE MAT	LEAD CODE	DRAWING Ø-RND. □-RECT Δ-STRIP *-CHIP
1▼#	MIRSB50	500u	20m	1.6	20m	75m*	50m	3.0	58	940n			20	20m	50n	300n	BC		PDØ
2	OP160	500u	20m	1.6	20m		40m	2.0	48*	940n			32	20m	60n	600n#	BC	A	PD33gØ
3	OP160W	500u	20m	1.6	20m		40m	2.0	48									B	PD364Ø
4	OP167	500u	20m	1.6	20m			2.0										A	PD365□
5	TIL32	500u	20m	1.6	20m		40m	2.0	48	940n			35	20m	50n	600n#	BC P-N	A	PD33Ø
6	XC1209	500u	20m	1.6	20m	75m	50m	3.0	58*	940n					50n	300n#	BC	A	PD16Ø
7	TIES471	500u	50m	1.8	50m		150m	2.0	6A	910n			130	50m	23n		BC P-N	A	PD41Ø
8#	TLN101	500u	50m	1.3	50m	150m*	100m	5.0 Ø	3C*	940n				50m	50n		BC	A	PD12jØ
9	IRE-152#1	500u	100m	3.4 †	100m		125m§		X5	820n					35n	7.0n#	CE FO		TO18
10	IRE-152#2	500u	100m	3.4 †	100m		125m§		X5	820n					35n	7.0n#	CE FO		TO5
11	LEA500	500u	100m	1.5	50m	150m*	50m	5.0	XC§	900n						50n			
12	SE5450-1	500u	100m	2.0	100m		100m	2.0 Ø	6A*	935n			12			700n#	BC	E	PD96Ø
13	STLD2000-1	500u	100m	2.0	100m		100m	2.0	6A*	935n			12			700n#	BC	E	PD96Ø
14	SE2430-1	500u	150m	2.0	50m		120m	2.0 Ø	48*	907n			32			20n#	BC	B	PD94Ø
15▼#	HR700	500u	300m	2.0	300m		300m	2.0	27	900n			60		30n	30n#	BC FO	♦	PD414Ø
16	IRL60	550u	50m	1.5	50m	75m	50m	3.0	5A	900n			60			1.0n	BC	A	PD65Ø
17	ME60	550u	50m	1.5	50m	75m*	50m	3.0	5A*	900n	250u$	50m			50n	1.0n	BC	B	PD64Ø
18	ME61	550u	50m	1.5	50m	75m*	50m	3.0	5A*	900n	250u$	50m			50n	10n	BC		PD86Ø
19	SE2450-3	550u	50m	1.5	50m		120m	6.0 Ø	6A*	930n			24			700n#	BC	A	PD25aØ
20	STLD1600-3	550u	50m	1.5	50m		100m	6.0	6A*	930n			24			700n#	BC	A	PD25aØ
21#	AL103B	600u	50m	1.6	50m		52m%		48*								BC		PD236Ø
22	FPE106	600u†	50m	1.5	50m	150m*	100m	3.0	48§	890n	35u	50m	80		50n	10n	BC	A	PD221Ø
23#	LN71	600u†	75m	1.2 †	75m	125m*	75m*	3.0	29*	910n			6	75m	40n	40n	BC	B	PD7cØ
24#	AL106V	600u	100m	1.7	100m		120m*		68*								BC		PD238Ø
25	IRE-151	600u	200m	1.7 †	200m		200m	2.0	X5	820n					35n	8.0n#	CE FO		TO18
26♦#	HR954F	600u	300m	2.0	300m		300m	3.0	25	900n					30n	20n#	BC FO	♦	PD346Ø
27	TIES06	600u	500m	2.3	500m		500m	2.0	5C	910n			115	500m	25n		BC P-N	A	PD29Ø
28	SE1450-3	700u	50m	1.5	50m		120m	6.0 Ø	6A*	930n			12			700n#	BC	B□	PD93a□
29	STLD1500-3	700u	50m	1.5	50m		100m	6.0	6A*	930n			12			700n#	BC	B	PD93Ø
30	SD2231-001	750u	25m	1.5	100m		100m	4.0	6C*	907n			30		22n	30n*	BC FO	AØ	PD95Ø
31	TIL25	750u	50m	1.5	50m		100m	2.0	6C	940n			35	50m	50n		BC P-N	A	PD25Ø
32	SE2430-2	750u	150m	1.5	50m		120m	4.0 Ø	48*	907n			32			20n#	BC	B	PD94Ø
33	ME7161	800u	50m	1.9	50m	75m*	50m	3.0	5A*	940n			10		50n	500n	BC		PD86Ø
34	C30123	800u	200m	3.0			200m	2.0	49□	830n					40n	8.0n#	CE FO	♦	PD223
35#	CQY49B	800u	300m	1.5	50m	150m	100m	2.0	4A%	930n	300u	50m	80		50n	600n	BC	E	PD42g
36	HE500	900u	50m	1.2 †	40m	150m*	40m	5.0	35*	900n	400u	100m				50n		C	PD97□
37	TIES35	900u	50m	2.0	50m		200m	2.0	5A	910n			135	50m	30n		BC P-N	A	PD31Ø
38	SD2231-002	950u	30m	1.5	100m		100m	4.0	6C*	907n			30		22n	30n*	BC FO	AØ	PD95Ø
39	TIL26	1.0m	35m	1.9	35m		50m	2.0	48	940n			175	35m	50n		BC P-N	A	PD26Ø
40#	AL103A	1.0m	50m	1.6	50m		52m%		48*								BC		PD236Ø
41#	GAL32A	1.0m	50m	1.9	50m		100m	3.0	X7	940n	1.6m	50m				400n#	BC	A	PD28nØ
42	ME7021	1.0m	50m	1.5	50m	150m*	100m	5.0	5A*	900n	3.6m	50m	15	50m	50n	100n		A	PD89Ø
43	ME7024	1.0m	50m	1.5	50m	150m*	100m	5.0	5A*	900n	81m	50m	4.0	50m	50n	100n		A	PD89eØ
44	OP124	1.0m	50m	1.6	50m		100m	2.0	6C*	930n			36	50m	50n	700n#	BC	A	PD25fØ
45#	SE302A	1.0m	50m	1.4	50m	75m*	50m	3.0	X8§	940n				50m	60n	1.0u	BC	A	PD256Ø
46	SE2460-3	1.0m	50m	1.5	50m		120m	6.0 Ø	6A*	930n			18			700n#	BC	A	PD25bØ
47	SG1002	1.0m	50m	1.4 †	50m		50m	2.0	67□	940n			15		50n	300n#	BC	A	PD99Ø
48	STLD1700-3	1.0m	50m	1.5	50m		100m	6.0	6A*	930n			18			700n#	BC	A	PD25bØ
49	TIES36	1.0m	50m	2.0	50m		150m	2.0	5A	910n			25	50m	30n		BC P-N	A	PD32Ø
50	TIL24	1.0m	50m	1.5	50m		100m	2.0	6C	940n			35	50m	50n		BC P-N	A	PD25Ø
51	IRE-150	1.0m	100m	5.0 †	100m			3.0	X5*	820n			90	100m	35n	7.0n#	CE		TO5Ø
52	OP130	1.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			20	100m	60n	600n#	BC	B	PD7gØ
53	OP130W	1.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			50	100m	60n	600n#	BC	B	PD8kØ
54	SE3450-1	1.0m	100m	2.0	100m		100m	2.0 Ø	6A*	935n			90			700n#	BC	E	PD95Ø
55	SE3451-1	1.0m	100m	2.0	100m		100m	2.0 Ø	6A*	935n			90			700n#	BC	E	PD95Ø
56	SE5450-2	1.0m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			12			700n#	BC	E	PD96Ø
57	SE5451-1	1.0m	100m	2.0	100m		100m	2.0 Ø	6A*	935n			16			700n#	BC	E	PD96Ø
58	SE5453-1	1.0m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			20			1.0u#	BC	E	PD96Ø
59	SPX2354-001	1.0m	100m	1.5	100m			4.0 Ø	6C*	900n						40n#	FO	B§	PD350Ø
60	SPX2354-002	1.0m	100m	1.5	100m			4.0 Ø	6C*	900n						40n#	FO	A□	PD350Ø
61	STLD1800-1	1.0m	100m	2.0	100m		100m	2.0	6A*	935n			90			700n#	BC	E	PD95Ø
62	STLD1900-1	1.0m	100m	2.0	100m		100m	2.0	6A*	935n			90			700n#	BC	E	PD95Ø
63	STLD2000-2	1.0m	100m	1.7	100m		100m	6.0	6A*	935n			12			700n#	BC	E	PD96Ø
64	STLD2100-1	1.0m	100m	2.0	100m		100m	2.0	6A*	935n			16			700n#	BC	E	PD96Ø
65	XC55A	1.0m	100m	1.7	100m	250m*	150m	3.0	6C*	940n			10		50n	300n#		B§	PD339Ø
66	XC55PA	1.0m	100m	1.7	100m	250m*	150m	3.0	6C*	940n			10		50n	300n#	DWB	B§	PD339Ø
67	LCW10F	1.0m♦	150m	1.8 †	250m		350m		06*	850n			56*		2.5n	100p#	CE FO	A	PD358
68	C86006E	1.0m	300m†	2.0 †	300m†		400m	2.0	35□	820n			10		4.0n	1.0n#	CE FO	♦	PD371
69♦#	HR800	1.0m	300m	2.0	300m		300m	2.0	07	900n	400m*				30n	30n#	BC	♦	PD270Ø
70	SE6451-2	1.0m	300m	2.0	300m		160m	6.0 Ø	6A*	910n			120			20n#	BC	A	PD29Ø
71	SD2231-003	1.2m	35m	1.5	100m		100m	4.0	6C*	907n			30		22n	30n*	BC FO	AØ	PD95Ø
72♦#	LN53	1.2m†	50m	1.5	50m	75m*	50m	3.0	3A%	950n				50m	50n		BC	A	PD125
73	MFOE200	1.2m	50m	1.5	50m	250m*	100m	3.0	5C§	810n	9.0m	50m	24			250n	FO	A	PD7g
74	FPE100	1.2m†	100m	1.9	100m	150m	100m	3.0	1A*	900n	100u	100m	75	100m	50n	50n#	BC	FØ	PD48Ø
75	FPE500	1.2m†	100m	1.7	100m	250m	150m	3.0	6C*	900n	3.0m	100m	9.0	100m	50n	10n#	BC	A	PD7jØ
76	FPE510	1.2m†	100m	1.7	100m	250m	150m	3.0	6C*	900n	300u	100m	30	100m	50n	10n#	BC	AD	PD27gØ
77	SE2430-3	1.2m	150m	1.5	50m		120m	4.0 Ø	48*	907n			32			20n#	BC	B	PD94Ø
78	SE3450-2	1.3m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			90			700n#	BC	E	PD95Ø
79	SE3453-1	1.3m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			80			1.0u#	BC	E	PD95Ø
80	STLD1800-2	1.3m	100m	1.7	100m		100m	6.0	6A*	935n			90			700n#	BC	E	PD95Ø
81	SE6452-1	1.3m	1.0	2.0	1.0		200m	6.0 Ø	6A*	910n			120			20n#	BC	A	PD29Ø
82#	GL350	1.4m	40m	1.4	40m	90m	60m	3.0	2A*	950n			60	40m	45n		BC	B	PD118bØ
83	SE1450-4	1.4m	50m	1.5	50m		120m	6.0 Ø	6A*	930n			12			700n#	BC	B□	PD93a□
84	STLD1500-4	1.4m	50m	1.5	50m		100m	6.0	6A*	930n			12			700n#	BC	B	PD93Ø
85♦#	CG7010A	1.4m	100m	2.6	200m		200m	3.0	05*	870n	7.0 *	100m		100m	45n	5.0n#	CE		Ø
86#	GL513F	1.4m	100m	1.6	100m	250m	150m	6.0	4C*	950n			100	100m	45n		BC	B	PD7mØ
87	XC1554	1.5m	20m	1.6	20m	75m*	50m	3.0	58*	940n			24		50n	300n#		A	PD18aØ
88	SE2460-4	1.5m	50m	1.5	50m		120m	6.0 Ø	6A*	930n			18			700n#	BC	A	PD25bØ
89	SG1003	1.5m	50m	1.4 †	50m		50m	2.0	67□	940n			15		50n	300n#	BC	A	PD99Ø
90	STLD1700-4	1.5m	50m	1.5	50m		100m	6.0	6A*	930n			18			700n#	BC	A	PD25bØ
91#	LN70	1.5m†	75m	1.2 †	75m	125m*	75m*	3.0	29*	910n			6	75m	30n	80n	BC	B	PD7cØ
92#	1A48B	1.5m†	100m§	1.8	100m	180m	100m	7.0	5C§	940n	25m†	100m	8.0		60n	500n	BC	EØ	PD27Ø
93	CQX16	1.5m	100m	1.7	100m	1.3	100m	3.0	6F§	940n			80		60n	300n#	BC		PD7q
94	CQX17	1.5m	100m	1.7	100m	1.3	100m	3.0	6F§	940n			80		60n	300n#	BC		PD8m
95	LED56	1.5m	100m	1.7	100m	1.3	100m	3.0	6F§	940n					60n	300n#	BC	EØ	PD171Ø
96	LED56F	1.5m	100m	1.7	100m	1.3	100m	3.0	6F§	940n					60n	300n#	BC	EØ	PD172Ø
97	TIL34	1.6m	100m	1.7	100m		200m	2.0	6F	940n			10	100m	50n	600n#	BC P-N	EØ	PD27fØ
98	SE3450-3	1.7m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			90			700n#	BC	E	PD95Ø
99	STLD1800-3	1.7m	100m	1.7	100m		100m	6.0	6A*	935n			90			700n#	BC	E	PD95Ø
100#	LD261III	1.8m	50m	1.6	50m	85m	50m	4.0	48§	950n	1.2m	50m	58	50m	40n	1.0u#	BC		PD146c□
101#	CQY77I	1.8m	100m	1.7	100m	350m	230m	4.0	5A§	950n	8.0m	100m	12	100m	40n	1.0u#	BC	B	PD7fØ
102#	CQY78I	1.8m	100m	1.7	100m	350m	230m	4.0	5A§	950n	1.0m	100m	80	100m	40n	1.0u#	BC	B	PD8gØ
103	SE5453-2	1.9m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			20			1.0u#	BC	E	PD96Ø
104	OPC116	2.0m	50m	1.5 †	50m			3.0 Ø		930n							BC	B§	PD206*
105	OPC123	2.0m	50m	1.5 †	50m			3.0 Ø		930n							BC	B§	PD206*
106#	GND500	2.0m	100m			250m	150m	35	4C*	950n			10					B	PD12vØ
107	SE3451-2	2.0m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			90			700n#	BC	E	PD95Ø
108	SE3455-1	2.0m	100m	2.0	100m		100m	2.0	6C*	930n			90			700n#	BC	B	PD8bØ
109	SE5451-2	2.0m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			16			700n#	BC	E	PD96Ø
110	SE5455-1	2.0m	100m	2.0	100m		100m	2.0	6C*	930n			20			700n#	BC	B	PD7aØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. EMITTER: INFRARED EMITTING DIODE

IN ORDER OF: (1)MIN. PWR. OUTPUT (2) IF & (3) TYPE No.

LINE No.	3 TYPE No.	1 MIN. POWER OUTPUT Po (W)	2 IF (A)	MAX FWD VOLTAGE VF (V)	IF (A)	MAX RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	MIN AXIAL INTENSITY Ie W/Sr	IF (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	WIDTH Δλ (m)	RESP. TIME (S)	MATER. & FEATURE MAT	LEAD CODE	DRAWING Ø-RND. ☐-RECT Δ-STRIP *-CHIP
1	SG1009	2.0m	100m	1.4 †	100m		100m	2.0	4C☐	940n			8.0		50n	900n#	BC	A☐	PD106Ø
2	SG1009F	2.0m	100m	1.4 †	100m		100m		4C☐	940n						900n#	BC	A☐	PD106aØ
3	SG1010	2.0m	100m	1.3 †	100m		100m		4C☐	940n						900n#	BC	A☐	PD106Ø
4	SG1010F	2.0m	100m	1.3 †	100m		100m		4C☐	940n						900n#	BC	A☐	PD106aØ
5	SPX1775	2.0m	100m	1.5	100m			4.0 Ø	6C*	907n			15		22n	20n#	BC FO	A	PD351Ø
6	STLD1900-2	2.0m	100m	1.7	100m		100m	6.0	6A*	935n			90			700n#	BC	E	PD95Ø
7	STLD2100-2	2.0m	100m	1.7	100m		100m	6.0	6A*	935n			16			700n#	BC	E	PD96Ø
8	5-L-D	2.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229aØ
9	5-W-D	2.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229bØ
10	C86007E	2.0m	300m†	2.0 †	300m†		400m	2.0	35☐	820n			36		4.0n	1.0n#	CE FO	♦	PD372
11	SE6451-3	2.0m	300m	2.0	300m		160m	6.0 Ø	6A*	910n			120			20n#	BC	A	PD29Ø
12#	1A48C	2.1m†	100m§	1.8	100m	180m	100m	7.0	5C§	940n	32m†	100m	8.0		60n	500n	BC	EØ	PD27Ø
13	SE5450-3	2.2m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			12			700n#	BC	E	PD96Ø
14	STLD2000-3	2.2m	100m	1.7	100m		100m	6.0	6A*	935n			12			700n#	BC	E	PD96Ø
15	SE2430-4	2.2m	150m	1.5	50m		120m	4.0 Ø	6A*	907n			32			20n#	BC	B	PD94Ø
16	SG1004	2.4m	50m	1.4 †	50m		50m	2.0	67☐	940n			15		50n	300n#	BC	A	PD99Ø
17	SE3453-2	2.4m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			80			1.0u#	BC	E	PD95Ø
18#	CQY17IV	2.5m	100m	1.7	100m	180m	100m	4.0	5A§	950n			30	100m	40n	1.0u#	BC	B	PD7cØ
19▼	FR4000	2.5m	100m	1.9	100m		100m	7.0	48	880n					50n	18n	EA FO	A	PD396
20	SE5453-3	2.5m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			20			1.0u#	BC	E	PD96Ø
21	TIL33	2.5m	100m	1.7	100m		200m	2.0	6F	940n			80	100m	50n	600n#	BC P-N	EØ	PD27fØ
22	XC55B	2.5m	100m	1.7	100m	250m*	150m	3.0	6C*	940n			10		50n	300n#		B§	PD339Ø
23	XC55PB	2.5m	100m	1.7	100m	250m*	150m	3.0	6C*	940n			10		50n	300n#	DWB	B§	PD339Ø
24#	LD261IV	2.8m	50m	1.6	50m	85m	50m	4.0	48§	950n	2.0m	50m	58	50m	40n	1.0u#	BC		PD146c☐
25#	CQY77II	2.8m	100m	1.7	100m	350m	230m	4.0	5A§	950n	12m	100m	12	100m	40n	1.0u#	BC	B	PD7fØ
26#	CQY78II	2.8m	100m	1.7	100m	350m	230m	4.0	5A§	950n	1.6m	100m	80	100m	40n	1.0u#	BC	B	PD8gØ
27#	GAL32B	3.0m	50m	1.9	50m		100m	3.0	X7	940n	4.8m	50m				400n#	BC	A	PD28nØ
28	ME7121	3.0m†	50m	1.8	50m	150m*	100m	3.0	5A*	940n	10m†	50m	15	50m	50n	500n		B	PD85Ø
29	ME7124	3.0m†	50m	1.8	50m	150m*	100m	3.0	5A*	940n	243m†	50m	4.0	50m	50n	500n		B	PD85cØ
30#	SE301A	3.0m	50m	1.4	50m	150m*	100m	5.0	XC§	940n				50m	60n	1.0u	BC	B	PD12sØ
31#	GAC100	3.0m	100m	2.0	100m		150m	3.0	5C	940n					55n	700n#	BC		PD241*
32	OP131	3.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			20	100m	60n	600n#	BC	B	PD7gØ
33	OP131W	3.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			50	100m	60n	600n#	BC	B	PD8kØ
34	SE2231	3.0m†	100m	1.5	100m	690m	100m	4.0	6C*	907n	9.0m†		30		22n	30n*	BC FO		PT39Ø
35	SE3453-3	3.2m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			80			1.0u#	BC	E	PD95Ø
36	5-L-C	3.2m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229aØ
37	5-W-C	3.2m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229bØ
38#	GL514	3.3m	100m	1.6	100m	250m	150m	6.0	4C*	950n			10	100m	45n		BC	B	PD12wØ
39	TIL31	3.3m	100m	1.7	100m		200m	2.0	6F	940n			10	100m	50n	600n#	BC P-N	EØ	PD27fØ
40	XC55C	3.3m	100m	1.7	100m	250m*	150m	3.0	6C*	940n			10		50n	300n#		B§	PD339Ø
41	XC55PC	3.3m	100m	1.7	100m	250m*	150m	3.0	6C*	940n			10		50n	300n#	DWB	B§	PD339Ø
42	SE6452-2	3.4m	1.0	2.0	1.0		200m	6.0 Ø	6A*	910n			120			20n#	BC	A	PD29Ø
43#	LN55	3.5m†	50m	1.5	50m	75m	50m	3.0	28	950n			55	50m	50n		BC	B	PD212
44#	LN62S	3.5m†	50m	1.2 †	50m	75m	50m	3.0	28*	950n				50m	50n		BC	A	PD118d
45	LED55B	3.5m	100m	1.7	100m	1.3	100m	3.0	6F§	940n					60n	300n#	BC	EØ	PD171Ø
46	LED55BF	3.5m	100m	1.7	100m	1.3	100m	3.0	6F§	940n					60n	300n#	BC	EØ	PD172Ø
47#	LN52	3.5m	100m	1.6	100m	150m	100m	3.0	28*	950n			100	100m	50n	1.0u#	BC	B	PD12gØ
48	SE3455-2	3.5m	100m	1.7	100m		100m	2.0	6C*	930n			90			700n#	BC	B	PD8bØ
49	SE5451-3	3.5m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			16			700n#	BC	E	PD96Ø
50	SE5455-2	3.5m	100m	1.7	100m		100m	2.0	6C*	930n			20			700n#	BC	B	PD7aØ
51	STLD2100-3	3.5m	100m	1.7	100m		100m	6.0	6A*	935n			16			700n#	BC	E	PD96Ø
52♦#	HR801	3.6m	300m	2.0	300m		300m	2.0	07	900n	1.4 *				30n	30n#	BC	♦	PD270Ø
53	SE5453-4	3.8m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			20			1.0u#	BC	E	PD96Ø
54	LD261-4	4.0m	50m				60m				2.0m	50m	60					A	PD146a
55#	CQY17V	4.0m	100m	1.7	100m	180m	100m	4.0	5A§	950n			30	100m	40n	1.0u#	BC	B	PD7eØ
56#	CQY33A	4.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	1.2m	100m	80		80n	500n#	BC	B§	PD8Ø
57#	CQY33B	4.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	1.2m	100m	80		80n	500n#	BC	B§	PD8Ø
58#	CQY33C	4.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	1.2m	100m	80		80n	500n#	BC	B§	PD8Ø
59	OP132	4.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			20	100m	60n	600n#	BC	B	PD7gØ
60	OP132W	4.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			50	100m	60n	600n#	BC	B	PD8kØ
61	SE3451-3	4.0m	100m	1.7	100m		100m	6.0 Ø	6A*	935n			90			700n#	BC	E	PD95Ø
62	SG1009A	4.0m	100m	1.4 †	100m		100m	2.0	4C☐	940n			8.0		50n	900n#	BC	A☐	PD106
63	SG1009AF	4.0m	100m	1.4 †	100m		100m		4C☐	940n						900n#	BC	A☐	PD106aØ
64	SG1010A	4.0m	100m	1.3 †	100m		100m		4C☐	940n						900n#	BC	A☐	PD106Ø
65	SG1010AF	4.0m	100m	1.3 †	100m		100m		4C☐	940n						900n#	BC	A☐	PD106aØ
66	STLD1900-3	4.0m	100m	1.7	100m		100m	6.0	6A*	935n			90			700n#	BC	E	PD95Ø
67	5-E-D	4.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229Ø
68	5-H-D	4.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229cØ
69	5-O-D	4.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					500n	35n#	CE	MØ	PD229dØ
70#	CQY77III	4.5m	100m	1.7	100m	350m	230m	4.0	5A§	950n	20m	100m	12	100m	40n	1.0u#	BC	B	PD7fØ
71#	CQY78III	4.5m	100m	1.7	100m	350m	230m	4.0	5A§	950n	2.5m	100m	80	100m	40n	1.0u#	BC	B	PD8gØ
72	5-L-B	4.5m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229aØ
73	5-W-B	4.5m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229bØ
74	SE3453-4	4.8m	100m	1.5	100m	1.3	30 §	2.0	6C*	940n			80			1.0u#	BC	E	PD95Ø
75	SE3455-3	4.8m	100m	1.7	100m		100m	2.0	6C*	930n			90			700n#	BC	B	PD8bØ
76	SE5455-3	4.8m	100m	1.7	100m		100m	2.0	6C*	930n			20			700n#	BC	B	PD7aØ
77	SLC5005♦	5.0m		1.8 †	400m		400m	3.0	06*	845n▼			40*			150n#	CE FO	B	PD360Ø
78#	1A104	5.0m†	100m	1.8	100m	180m	100m	7.0	49§	940n			20		60n	500n	BC	E	PD27Ø
79▼	C86000E♦	5.0m	100m	2.0 †	100m		200m	2.0	35☐	820n			40	100m	2.0n	1.0n	CE	♦	PD324
80#	CQY35A	5.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	20m	100m	10		80n	500n#	BC	B§	PD7Ø
81#	CQY35B	5.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	20m	100m	10		80n	500n#	BC	B§	PD8Ø
82#	CQY35C	5.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	20m	100m	10		80n	500n#	BC	B§	PD8Ø
83#	CQY89	5.0m	100m	1.6	100m	215m	130m	5.0	5A%	930n	7.0m	100m	30	100m	50n		BC	B	PD232cØ
84♦	FPE520	5.0m†	100m	1.7	100m	250m*	250m*	3.0	6F*	940n	5.0m	100m	18	100m	50n	500n#	BC	A	PD7jØ
85	FPE530	5.0m†	100m	1.7	100m	250m*	250m*	3.0	6F*	940n	5.0m	100m	60	100m	50n	500n#	BC	AD	PD27gØ
86	IRE-11♦	5.0m	100m	1.4	100m			25	6A*	940n							BC		
87	IRE-160	5.0m	100m	2.2 †	100m		150m%	3.0 %	48*	820n					40n	14n#	FO	A	PD356
88	OP133	5.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			20	100m	60n	600n#	BC	B	PD7gØ
89	OP133W	5.0m	100m	1.7	100m	200m*	10 §	2.0	5F*	940n			50	100m	60n	600n#	BC	B	PD8kØ
90	LCW5♦	5.0m♦	150m	1.8 †	250m		350m		06*	850n			56*		2.5n	100p#	CE	T	PD115Ø
91	C30127♦	5.0m	300m	2.0	300m		400m		35☐	820n			5.0		4.0n	1.0n#	CE FO	B	PD102Ø
92▼	E2000♦	5.0m	300m	2.0 †						820n					2.5n	500p		A	PD115Ø
93	CQX14	5.4m	100m	1.7	100m	1.3	100m	3.0	6F§	940n			15		60n	300n#	BC		PD7q
94	CQX15	5.4m	100m	1.7	100m	1.3	100m	3.0	6F§	940n			15		60n	300n#	BC		PD8m
95	LED55C	5.4m	100m	1.7	100m	1.3	100m	3.0	6F§	940n					60n	300n#	BC	EØ	PD171Ø
96	LED55CF	5.4m	100m	1.7	100m	1.3	100m	3.0	6F§	940n					60n	300n#	BC	EØ	PD172Ø
97	SE3455-4	5.4m	100m	1.7	100m		100m	2.0	6C*	930n			90			700n#	BC	B	PD8bØ
98	SE5455-4	5.4m	100m	1.7	100m		100m	2.0	6C*	930n			20			700n#	BC	B	PD7aØ
99▼#	LN65	5.5m†	100m	1.6	100m	160m*	100m	3.0	3A%	950n				100m	50n		BC	B	PD212
100#	GAL32C	6.0m	50m	1.9	50m		100m	3.0	X7	940n	9.6m	50m				400n#	BC	A	PD28nØ
101	1N6264	6.0m	100m	1.7	100m	170m*	100m*	3.0	6F*	945n			20		60n☐		BC	YØ	PD171aØ
102	1N6265	6.0m	100m	1.7	100m	170m*	100m*	3.0	6F*	945n			80		60n☐		BC	YØ	PD171bØ
103#	AL107A	6.0m	100m	2.0	100m		100m%		48*								BC		PD237Ø
104#	CQY34A	6.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	13m	100m	25		80n	500n#	BC	B§	PD7Ø
105#	CQY34B	6.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	13m	100m	25		80n	500n#	BC	B§	PD8Ø
106#	CQY34C	6.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	13m	100m	25		80n	500n#	BC	B§	PD8Ø
107	IRE-21♦	6.0m	100m	1.4	100m			25	6A*	940n							BC		
108	LD242-1	6.0m	100m				300m				2.5m	100m	120					A	PD12pØ
109#	LN51F/FT	6.0m	100m	1.2 †	100m	150m*	100m*	3.0	29*	950n			32	100m	50n	1.0u	BC	B	PD8dØ
110#	LN51L/LT	6.0m	100m	1.2 †	100m	150m*	100m*	3.0	29*	950n			8.0	100m	50n	1.0u	BC	B	PD7cØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. EMITTER: INFRARED EMITTING DIODE

IN ORDER OF: (1)MIN. PWR. OUTPUT (2) IF & (3) TYPE No.

LINE No.	3 TYPE No.	1 MIN. POWER OUTPUT Po (W)	2 IF (A)	MAX FWD VOLTAGE VF (V)	IF (A)	MAX RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	MIN AXIAL INTENSITY Ie W/Sr	IF (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	WIDTH Δλ (m)	RESP. TIME (S)	MATER. & FEATURE MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1▼	TIL38	6.0m	100m	2.5 †	1.0		150m	5.0	5A	940n	120m	1.0 §	60	100m	50n	600n	BC	♦	PD415Ø
2	5-L-A	6.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229aØ
3	5-W-A	6.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229bØ
4	C30130♦	6.0m	400m	2.0	400m		400m	2.0	35☑	820n			20	300m	4.0n	1.0n#	CE FO	A	PD100aØ
5	LD261-5	6.3m	50m				60m				3.2m	50m	60					A	PD146a
6	5-E-C	6.5m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229Ø
7	5-H-C	6.5m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229cØ
8	5-O-C	6.5m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229dØ
9	SE6452-3	6.8m	1.0	2.0	1.0		200m	6.0 Ø	6A*	910n			120			20n#	BC	A	PD29Ø
10#	CQY38HA	8.0m	100m	1.7	100m	150m	100m	5.0	2A%	925n	1.6m	100m	160		80n	500n#	BC	B§	PD12Ø
11	IRE10♦	8.0m	400m	1.7 †	100m	1.0			6A*	940n			10		50n	400n#	BC		PD7bØ
12▼	F5D2	9.0m	100m	1.7	100m	1.3	100m	3.0	6F§	880n			20	100m	80n	1.5u*	EC	EØ	PD171aØ
13▼	F5E2	9.0m	100m	1.7	100m	1.3	100m	3.0	6F§	880n			80	100m	80n	1.5u*	EC	EØ	PD172aØ
14	5-E-B	9.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229Ø
15	5-H-B	9.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229cØ
16	5-O-B	9.0m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229dØ
17	LD261-6	10m	50m				60m				5.0m	50m	60					A	PD146a
18#	1A83	10m†	100m§	1.8	100m§	180m	100m	7.0	49§	940n			20		60n	600n#	BC	EØ	PD27Ø
19#	AL107B	10m	100m	2.0	100m		100m%		48*								BC		PD237Ø
20#	CQY38HC	10m	100m	1.7	100m	150m	100m	5.0	2A%	925n	1.6m	100m	160		80n	500n#	BC	B§	PD12Ø
21	LD242-2	10m	100m				300m				4.0m	100m	120					A	PD12pØ
22	LCW10♦	10m♦	150m	1.8 †	250m		350m		06*	850n			56*		2.5n	100p#	CE	T	PD115Ø
23▼	E2004♦	10m	300m	1.8 †						845n					2.5n	500p		A	PD115Ø
24	SE6450-2	10m	300m	2.0	300m		100m	2.0 Ø	07*	935n			135			700n#	BC	A	PD29Ø
25	SLC5010♦	10m	350m	1.8	400m		400m	3.0	06*	845n▼			40*			150n#	CE FO	B	PD360Ø
26	5-E-A	11m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229Ø
27	5-H-A	11m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229cØ
28	5-O-A	11m	200m	1.4 †	100m		300m	7.0	6C§	880n					50n	35n#	CE	MØ	PD229dØ
29#	CQY38HB	12m	100m	1.7	100m	150m	100m	5.0	2A%	925n	1.6m	100m	160		80n	500n#	BC	B§	PD12Ø
30▼	F5D1	12m	100m	1.7	100m	1.3	100m	3.0	6F§	880n			20	100m	80n	1.5u*	EC	EØ	PD171aØ
31▼	F5E1	12m	100m	1.7	100m	1.3	100m	3.0	6F§	880n			80	100m	80n	1.5u*	EC	EØ	PD172aØ
32	IRE20♦	12m	400m	1.7 †	100m	900m		5.0 Ø	6A*	940n			180		50n	400n#	BC		PD12dØ
33#	CQY99	15m†	100m	1.7	100m	210m*	150m	5.0	XA§	925n	7.0m	100m	60		40n	1.0u#	BC	B	PD232aØ
34	SE6450-3	15m	300m	2.0	300m		200m	2.0 Ø	07*	935n			135			700n#	BC	A	PD29Ø
35	TIES27	15m	300m	2.2	300m		300m	2.0	07	940n			135	300m	45n		BC P-N	A	PD30Ø
36	OP135	15m♦	1.0 §	2.5	1.0 §	200m*	5.0 §	2.0	5F	940n			18	1.0 §	60n	400n#	BC	B	PD7rØ
37	OP135W	15m♦	1.0 §	2.5	1.0 §	200m*	5.0 §	2.0	5F	940n			64	1.0 §	60n	400n#	BC	B	PD8nØ
38▼	OP190A	15m♦	1.0 §	2.5	1.0 §	150m	100m	2.0	48	940n	10m	100m	40	100m	40n	400n#	BC	B	PD232eØ
39▼	OP195A	15m♦	1.0 §	2.5	1.0 §	150m	100m	2.0	48	940n	32m	100m	15	100m	40n	400n#	BC	B	PD232eØ
40	LD242-3	16m	100m				300m				8.0m	100m	120					A	PD12pØ
41#	LD271	16m†	100m	1.5	100m	210m	130m	4.0	5A%	950n	8.0m	100m	60	100m	40n	1.0u#	BC	B	PD28pØ
42	TIES13	20m	300m	2.0	300m		300m	2.0	5A	930n			130	300m	45n		BC P-N	A	PD29Ø
43#	GAL10	20m	500m	1.6 †	500m	1.0	500m	3.0		940n					50n	400n#			
44#	GAL11	20m	500m	1.6 †	500m	1.0	500m	3.0		940n					50n	400n#			
45	OP136	27m♦	1.0 §	2.5	1.0 §	200m*	5.0 §	2.0	5F	940n			18	1.0 §	60n	400n#	BC	B	PD7rØ
46	OP136W	27m♦	1.0 §	2.5	1.0 §	200m*	5.0 §	2.0	5F	940n			64	1.0 §	60n	400n#	BC	B	PD8nØ
47	TIES13A	30m	300m	2.0	1.0		300m	2.0	5A%	930n			130	1.0	45n		BC	A	PD29Ø
48#	1A65A	30m†	500m	2.0	500m	1.0	500m	7.0	39§	940n	6.0m†	500m	120		60n	500n	BC	B	PD73Ø
49#	1A65B	30m†	500m	2.0	500m	1.0	500m	7.0	39§	940n	6.0m†	500m	120		60n	500n	BC	B	PD74Ø
50#	1AX65A	30m†♦	500m	2.0	500m		500m	7.0	39§	940n	4.0m	500m			60n		BC	B	PD73Ø
51#	1AX65B	30m†♦	500m	2.0	500m		500m	7.0	39§	940n	4.0m	500m			60n		BC	B	PD74Ø
52♦	OP190	30m♦	1.0 §	2.5	1.0 §	150m	100m	2.0	48	940n	15m	100m	40	100m	40n	400n#	BC	B	PD232eØ
53▼	OP195	30m♦	1.0 §	2.5	1.0 §	150m	100m	2.0	48	940n	50m	100m	15	100m	40n	400n#	BC	B	PD232eØ
54	TIES15	30m	1.0	2.0	1.0		1.0	2.0	5A	930n			130	1.0	45n		BC P-N	A	PD29Ø
55▼	FR6000	35m		1.9	2.0		2.0	7.0	48	880n					50n	33n			PD397
56	TIES12	40m	300m	2.0	300m		300m	2.0	5A	930n			130	300m	45n		BC P-N	A	PD29Ø
57	OP137	40m♦	1.0 §	2.5	1.0 §	200m*	5.0 §	2.0	5F	940n			18	1.0 §	60n	400n#	BC	B	PD7rØ
58	OP137W	40m♦	1.0 §	2.5	1.0 §	200m*	5.0 §	2.0	5F	940n			64	1.0 §	60n	400n#	BC	B	PD8nØ
59▼	TXES37	50m	1.0	1.5 †	1.0		1.0	2.0	07	940n			180	1.0	45n		BC		PD417Ø
60	6-E-B	56m	2.5	1.4 †	100m		2.5	7.0	6C§	880n					50n	35n#	CE	MØ	PD230Ø
61	6-O-B	56m	2.5	1.4 †	100m		2.5	7.0	6C§	880n					50n	35n#	CE	MØ	PD230aØ
62	TIES14	60m	1.0	2.0	1.0		1.0	2.0	5A	930n			130	1.0	45n		BC P-N	A	PD29Ø
63	6-E-A	75m	2.5	1.4 †	100m		2.5	7.0	6C§	880n					50n	35n#	CE	MØ	PD230Ø
64	6-O-A	75m	2.5	1.4 †	100m		2.5	7.0	6C§	880n					50n	35n#	CE	MØ	PD230aØ
65	TIES16A	100m	2.0	2.0	2.0		2.0	2.0	5A	930n			150	2.0	45n		BC P-N	A	PD39Ø
66	TIES16B	200m	2.0	2.0	2.0		2.0	2.0	5A	930n			150	2.0	45n		BC P-N	A	PD39Ø
67	TIES16C	350m	3.0	2.2	2.2		3.0	2.0	5A	930n			150	3.0	45n		BC P-N	A	PD39Ø
68	LD90♦	500m♦	2.5 §	1.2 †	50m		2.5 §		KA*	890n					3.5n	500p#	BC		PD116Ø
69	LD93♦	750m♦	4.0 §	1.2 †	50m		4.0 §		KA*	890n					3.5n	500p#	BC		PD116Ø
70	LD95♦	1.0 ♦	6.0 §	1.2 †	50m		6.0 §		KA*	890n					3.5n	500p#	BC		PD116Ø
71	LD61♦	1.0 ♦	10 §	1.2 †	50m		10 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
72	SG2001♦	1.0 ♦	10	4.5	10		10 §	2.0	57☑	904n			9.0	10	3.5n	1.0n#	BC200ns	A§	PD100Ø
73	SG2001A♦	1.0 ♦	10	4.5	10		10 §		57☑	904n						1.0n#	BC	A§	PD100cØ
74#	LD261V	1.8	50m	1.6	50m	85m	50m	4.0	37$	950n	3.2m	50m	60	50m	20n	1.0u	CB		PD146aØ
75	LD60♦	2.0 ♦	10 §	1.2 †	50m		10 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
76	SG2002♦	2.0 ♦	10	4.5	10		10 §	2.0	57☑	904n			9.0	10	3.5n	1.0n#	BC200ns	A§	PD100Ø
77	SG2002A♦	2.0 ♦	10	4.5	10		10 §		57☑	904n						1.0n#	BC	A§	PD100cØ
78#	LD261VI	2.8	50m	1.6	50m	85m	50m	4.0	37$	950n	5.0m	50m	60	50m	20n	1.0u	CB		PD146aØ
79#	LD242I	3.0	100m	1.7	100m	470m%	300m	4.0	5A	950n	2.5m	100m	120	100m	40n	1.0u	CB		PT34bØ
80#	LD242II	3.0	100m	1.7	100m	470m%	300m	4.0	5A	950n	4.0m	100m	120	100m	40n	1.0u	CB		PT34bØ
81#	LD242III	3.0	100m	1.7	100m	470m%	300m	4.0	5A	950n	6.3m	100m	120	100m	40n	1.0u	CB		PT34bØ
82	C30012♦	3.0 ♦	25				25 §		K7☑	850n						1.0n#	CE 100n	A§	PD100Ø
83	SG2003♦	3.0 ♦	25	6.5	25		25 §	2.0	57☑	904n			9.0	25	3.5n	1.0n#	BC200ns	A§	PD100Ø
84	SG2003A♦	3.0 ♦	25	6.5	25		25 §		57☑	904n						1.0n#	BC	A§	PD100cØ
85	LA63♦	4.0 ♦	25 §	1.4 †	50m		25 §		K7*	850n					3.5n	500n#	CE	B	PD114aØ
86#	SFH400I	5.0	100m	1.7	100m	470m	300m	4.0	6A	950n	12m	100m	12	100m	20n	1.0u	CB	A	PD7eØ
87#	SFH400II	5.0	100m	1.7	100m	470m	300m	4.0	6A	950n	20m	100m	12	100m	20n	1.0u	CB	A	PD7eØ
88#	SFH400III	5.0	100m	1.7	100m	470m	300m	4.0	6A	950n	32m	100m	12	100m	20n	1.0u	CB	A	PD7eØ
89#	SFH401I	5.0	100m	1.7	100m	470m	300m	4.0	6A	950n	6.3m	100m	30	100m	20n	1.0u	CB	A	PD7eØ
90#	SFH401II	5.0	100m	1.7	100m	470m	300m	4.0	6A	950n	10m	100m	30	100m	20n	1.0u	CB	A	PD7eØ
91#	SFH401III	5.0	100m	1.2	100m	470m	300m	4.0	6A	950n	16m	100m	30	100m	20n	1.0u	CB	A	PD7eØ
92#	SFH402I	5.0	100m	1.7	100m	470m	300m	4.0	6A	950n	1.6m	100m	80	100m	20n	1.0u	CB	A	PD8gØ
93#	SFH402II	5.0	100m	1.2	100m	470m	300m	4.0	6A	950n	2.5m	100m	80	100m	20n	1.0u	CB	A	PD8gØ
94#	SFH402III	5.0	100m	1.7	100m	470m%	300m	4.0	6A	950n	4.0m	100m	80	100m	40n	1.0u	CB	A	PD8gØ
95	LD160♦	5.0 ♦	15 §	2.4 †	50m		15 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
96	LD62♦	5.0 ♦	20 §	1.2 †	50m		20 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
97	SG2005♦	5.0 ♦	20	6.0	20		20 §	2.0	57☑	904n			9.0	20	3.5n	1.0n#	BC200ns	A§	PD100Ø
98	SG2005A♦	5.0 ♦	20	6.0	20		20 §		57☑	904n						1.0n#	BC	A§	PD100cØ
99	LD63♦	5.0 ♦	25 §	1.2 †	50m		25 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
100	SG2004♦	5.0 ♦	25	6.5	25		25 §	2.0	57☑	904n			9.0	25	3.5n	1.0n#	BC200ns	A§	PD100Ø
101	SG2004A♦	5.0 ♦	25	6.5	25		25 §		57☑	904n						1.0n#	BC	A§	PD100cØ
102	C30013♦	5.0 ♦	40				40 §		K7☑	850n						1.0n#	CE 100n	A§	PD100Ø
103▼	E2500♦	6.0 ♦	40 §	8.0	40 §					850n					3.5n	500p			PD409Ø
104	LA65♦	6.0 ♦	40 §	1.4 †	50m		40 §		K7*	850n					3.5n	500n#	CE	B	PD114aØ
105	SG2006♦	7.0 ♦	40	8.0	40		40 §	2.0	57☑	904n			9.0	40	3.5n	1.0n#	BC200ns	A§	PD100Ø
106	SG2006A♦	7.0 ♦	40	8.0	40		40 §		57☑	904n						1.0n#	BC	A§	PD100cØ
107	LD66♦	8.0 ♦	40 §	1.2 †	50m		40 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
108	SLE9010-1♦	8.0 ♦	40	6.7	40		55	1.0	K7	904n			28			500p#	BC FO	B	PD349Ø
109	LD161♦	10 ♦	25 §	2.4 †	50m		25 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
110▼	E2502♦	10 ♦	40 §	6.7	40 §					904n					3.5n	500p			PD409Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. EMITTER: INFRARED EMITTING DIODE

IN ORDER OF: (1)MIN. PWR. OUTPUT (2) IF & (3) TYPE No.

LINE No.	3 TYPE No.	1 MIN. POWER OUTPUT Po (W)	2 IF (A)	MAX FWD VOLTAGE VF (V)	IF (A)	MAX RATINGS @ 25°C PWR. DISS. Pcase (W)	DC FWD CURR. IF (A)	REV. VOLT VR (V)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	MIN AXIAL INTENSITY Ie W/Sr	IF (A)	BEAM ANGLE θHI (°)	SPECTRAL BAND IF TEST (A)	WIDTH Δλ (m)	RESP. TIME (S)	MATER. & FEATURE MAT	LEAD CODE	DRAWING Ø-RND. Ø-RECT Δ-STRIP *-CHIP
1	LD65♦	10 ♦	40 §	1.2 †	50m		40 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
2	SG2007♦	10 ♦	40	8.0	40		40 §	2.0	57☑	904n			9.0	40	3.5n	1.0n#	BC200ns	A§	PD100Ø
3	SG2007A♦	10 ♦	40	8.0	40		40 §		57☑	904n						1.0n#	BC	A§	PD100cØ
4	SLE9010-2♦	10 ♦	40	6.7	40		55	1.0	K7	904n			28			500p#	BC FO	B	PD349Ø
5	C30099♦	10 ♦	75				75 §		K7☑	850n						1.0n#	CE 100n	A§	PD100Ø
6	LA162♦	12 ♦	25 §	4.2 †	50m		25 §		K7*	850n					3.5n	500n#	CE	B	PD114Ø
7	LA68♦	12 ♦	75 §	1.4 †	50m		75 §		K7*	850n					3.5n	500n#	CE	B	PD114aØ
8	SG2009♦	12 ♦	75	10	75		75 §	2.0	57☑	904n			9.0	75	3.5n	1.0n#	BC200ns	A§	PD100Ø
9	SG2009A♦	12 ♦	75	10	75		75 §		57☑	904n						1.0n#	BC	A§	PD100cØ
10	LD162♦	15 ♦	25 §	3.6 †	50m		25 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
11	SG2010♦	15 ♦	75	10	75		75 §	2.0	57☑	904n			9.0	75	3.5n	1.0n#	BC200ns	A§	PD100Ø
12	SG2010A♦	15 ♦	75	10	75		75 §		57☑	904n						1.0n#	BC	A§	PD100cØ
13	LD67♦	16 ♦	60 §	1.2 †	50m		60 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
14	LD68♦	16 ♦	75 §	1.2 †	50m		75 §	3.0	K7*	904n					3.5n	500n#	BC		PD114aØ
15	LA163♦	20 ♦	40 §	4.2 †	50m		40 §		K7*	850n					3.5n	500n#	CE	B	PD114Ø
16	SG2012♦	20 ♦	100	12	100		100 §	2.0	57☑	904n			9.0	100	3.5n	1.0n#	BC200ns	A§	PD100aØ
17	SG2012A♦	20 ♦	100	12	100		100 §		57☑	904n						1.0n#	BC	A§	PD100dØ
18	C30002♦	25 ♦	25 §	60 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-1	A§	PD102Ø
19	MH-163♦	25	30	17 †	30		30 §	3.0	K7*	900n			24	30	4.5n	1.0n#	STK		
20	LD163♦	25 ♦	40 §	3.6 †	50m		40 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
21	SG3001♦	25 ♦	40	16 †	40 §		40 §		K6☑	904n			20		3.5n		BC 200n	A§	PD100aØ
22	SSD9025♦	25 ♦	40	15	40		55	3.0	K7	904n			28			500p#	BC FO	B	PD114Ø
23	LD164♦	30 ♦	75 §	2.4 †	50m		75 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
24	C30004♦	35 ♦	25 §	100 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-1	A§	PD102Ø
25	C30041	35 ♦	60				60 §		K7☑	904n							BC 200n	A§	PD100aØ
26	C30003♦	50 ♦	25 §	60 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-1	A§	PD102Ø
27	LD210♦	50 ♦	25 §	12 †	50m		25 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
28	MH-166♦	50	40	25 †	40		40 §	3.0	K7*	900n			24	40	4.5n	1.0n#	STK		
29	LD166♦	50 ♦	60 §	4.8 †	50m		60 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
30	LDF-167♦	60		27 †	75		75		K6*	904n			18		3.5n	1.0n#	STK		
31	LD214♦	60 ♦	40 §	14 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
32	LD214S♦	60 ♦	40 §	14 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
33	C30038♦	60 ♦	75				75 §		K7☑	904n							BC 200n	A§	PD100aØ
34	LA167♦	60 ♦	75 §	7.0 †	50m		75 §		K7*	850n					3.5n	500n#	CE	B	PD114Ø
35	MH-167♦	70	50	32 †	50		50 §	4.0	K7*	900n			24	50	4.5n	1.0n#	STK		
36	C30005♦	75 ♦	25 §	100 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-1	A§	PD102Ø
37	C30006♦	75 ♦	25 §	200 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-2	A§	PD102Ø
38	LD211♦	75 ♦	25 §	18 †	50m		25 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
39	LA215♦	75 ♦	40 §	16 †	50m		40 §		K7*	850n					3.5n	500n#	CE	A	PD115Ø
40	LD167♦	75 ♦	75 §	6.0 †	50m		75 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
41	C30042	90 ♦	100				100 §		K7☑	904n							BC 200n	A§	PD100aØ
42	LD215♦	100 ♦	40 §	14 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
43	LD215S♦	100 ♦	40 §	14 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
44	LD168♦	100 ♦	100 §	7.2 †	50m		100 §		K7*	904n					3.5n	500n#	BC	B	PD114Ø
45	SSD2100♦	100 ♦	100	37	100		110	6.0	K7	904n			28			500p#	BC FO	B	PD114Ø
46	C30007♦	150 ♦	25 §	200 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-2	A§	PD102Ø
47	C30008♦	150 ♦	25 §	400 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-4	A§	PD102Ø
48	LD212♦	150 ♦	25 §	36 †	50m		25 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
49	LA220♦	150 ♦	40 §	31 †	50m		40 §		K7*	850n					3.5n	500n#	CE	A	PD115Ø
50	LD224-8S♦	150 ♦	40 §	9.6 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
51	LD220♦	200 ♦	40 §	29 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
52	LA430♦	225 ♦	40 §	50 †	50m		40 §		K7*	850n					3.5n	500n#	CE	A	PD115Ø
53	LA235♦	275 ♦	40 §	60 †	50m		40 §		K7*	850n					3.5n	500n#	CE	A	PD115Ø
54	C30009♦	300 ♦	25 §	400 †	25 §		25 §	5.0	K6☑	904n			30*		8.0n		BC SS-4	A§	PD102Ø
55	LD213♦	300 ♦	25 §	72 †	50m		25 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
56	LD330♦	300 ♦	40 §	44 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
57	LD430♦	300 ♦	40 §	48 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
58	LD235♦	350 ♦	40 §	58 †	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
59	LD360♦	600 ♦	40 §	40 $	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø
60	LA410♦	800 ♦	40 §	31 $	50m		40 §		K7*	850n					3.5n	500n#	CE	A	PD115Ø
61	LD410♦	1.0k♦	40 §	28 $	50m		40 §		K7*	904n					3.5n	500p#	BC	A	PD115Ø

4. EMITTER ARRAY: LED & INFRARED EMITTING DIODE

IN ORDER OF: (1)NO. OF ELEMENTS (2) COLOR (3) PWR DISS-Pcase (4) IF & (5) TYPE No.

LINE No.	[5] TYPE No.	[1] No. OF ELEM	[2] COLOR	MAX FWD VOLTAGE VF (V)	IF (A)	MAX. RATINGS @ 25°C [3] PWR. DISSIP. Pcase (W)	REV. VOLT VR (V)	[4] FWD CURR. IF (A)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	IF (A)	MIN IR RADIAT PWR Po (W)	BEAM ANGLE θHI (°)	RESP TIME (S)	MATERIAL & FEATURES MAT	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	TIL41	1	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
2	TIL261	1	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
3	TIL281	1	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
4	TIL271	1	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
5	TIL42	2	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
6	LEA502SN	2	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
7#	LD262	2	1	1.6	50m	170m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
8	TIL262	2	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
9#	LD462	2	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
10	TIL282	2	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
11#	LD482	2	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
12	TIL272	2	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
13#	LD472	2	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
14	TIL43	3	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
15	LEA503SN	3	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
16#	LD263	3	1	1.6	50m	255m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
17	TIL263	3	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
18#	LD463	3	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
19	HLMP-6203	3	2	2.0	10m	100m	3.0	50m	5A*	655n	500u	10m		45	15n	CA Matched	PA42☑
20	TIL283	3	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
21#	LD483	3	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
22	TIL273	3	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
23#	LD473	3	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
24	TIL44	4	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
25	LEA504SN	4	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
26#	LD264	4	1	1.6	50m	340m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
27	TIL264	4	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
28#	LD464	4	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
29	HLMP-6204	4	2	2.0	10m	100m	3.0	50m	5A*	655n	500u	10m		45	15n	CA Matched	PA42a☑
30	TIL284	4	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
31#	LD484	4	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
32	TIL274	4	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
33#	LD474	4	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
34▼	E2525♦	5	1	27	75 §					904n			75		500p	16x16 Mil Spot	
35	TIL45	5	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
36	LEA505S	5	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
37#	LD265	5	1	1.6	50m	425m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
38	TIL265	5	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
39#	LD465	5	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
40	HLMP-6205	5	2	2.0	10m	100m	3.0	50m	5A*	655n	500u	10m		45	15n	CA Matched	PA42b☑
41	TIL285	5	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
42#	LD485	5	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
43	TIL275	5	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
44#	LD475	5	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
45	TIL46	6	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
46	LEA506S	6	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
47#	LD266	6	1	1.6	50m	510m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
48	TIL266	6	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
49#	LD466	6	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
50	TIL286	6	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
51#	LD486	6	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
52	TIL276	6	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
53#	LD476	6	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
54	TIL47	7	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
55	LEA507S	7	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
56#	LD267	7	1	1.6	50m	595m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
57	TIL267	7	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
58#	LD467	7	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
59	TIL287	7	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
60#	LD487	7	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
61	TIL277	7	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
62#	LD477	7	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
63	TIL48	8	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
64	LEA508	8	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
65#	LD268	8	1	1.6	50m	680m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
66	TIL268	8	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
67#	LD468	8	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
68	TIL288	8	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
69#	LD488	8	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
70	TIL278	8	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
71#	LD478	8	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
72	OT3031A	9				450m		90m		900n						Light Bar	PA34☑
73#	CQY63	9	1	1.3						930n				35		See CNY26	PA20Δ
74	TIL49	9	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
75#	LEA13	9	1	1.5	50m		2.0	100m	6C	930n		50m	400u	35		BC 9 TIL23	PA28☑
76	TIL131	9	1	1.5	50m		2.0	100m	6C	930n			400u	35		BC;9 TIL23	PA7☑
77	LEA509	9	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
78#	CQY36/9	9	1	1.6	50m	650m	5.0	50m	2A%	925n			250u	80	500n#	BC Ie 400uW/sr	PA1☑
79#	CQY37/9	9	1	1.6	50m	650m	5.0	50m	2A%	925n			250u	25	500n#	BC Ie 2.2mW/sr	PA1a☑
80#	LD269	9	1	1.6	50m	765m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
81	TIL269	9	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
82#	LD469	9	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0n#	CA	PA26aΔ
83	TIL289	9	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
84#	LD489	9	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
85	TIL279	9	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
86#	LD479	9	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
87	TIL50	10	1	1.6	20m		2.0	40m	48	940n			500u		600n#	BC	PA6Δ
88	LEA510	10	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
89#	CQY39	10	1	1.6	50m	750m	3.0	50m	2A%	910n			200u	50	100n#	BC	PA2☑
90#	V131P	10	1	1.6	50m	750m	3.0	50m	2A%	910n			200u	50	100n#	BC	PA2☑
91#	LD260	10	1	1.6	50m	850m#	4.0	50m	48§	950n		50m	700u	58	1.7u#	BC	PA27Δ
92	TIL270	10	2	2.0	20m		3.0	40m	48	650n	500u	20m				MF .40 min	PA8Δ
93#	LD460	10	2	2.0	20m	85m	3.0	35m	48§	665n	1.0mt	20m		90	5.0 #	CA	PA26aΔ
94	TIL290	10	3	3.5	25m		3.0	30m	48	590n	800u	25m				CA MF .40 Min	PA8Δ
95#	LD480	10	4	3.0	20m	85m	3.0	25m	38§	575n	6.0mt	20m		100	50n#	BD	PA26aΔ
96	TIL280	10	5	3.5	25m		3.0	30m	48	565n	800u	25m				MF .40 min	PA8Δ
97#	LD470	10	5	3.0	20m	85m	3.0	25m	48§	560n	4.8mt	20m		100	50n#	BD	PA26aΔ
98	LEA511	11	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
99#	CQY64	12	1	1.3						930n				35		See CNY27	PA11Δ
100#	LEA17	12	1	1.5	50m		2.0	100m	6C	930n		50m	400u	35		BC 12 TIL23	PA29☑
101	TIL134	12	1	1.5	50m		2.0	100m	6C	930n			400u	35		12 TIL23	PA11☑
102	LEA512	12	1	1.5	50m	150m	5.0	50m	07§	900n			500u	190	50n#		
103#	GPA1100	30	4	3.0 †	10m	1.0	6.0	50m#	X7*	575n	25kØ	50m	4.0u†		40n#	BD	PA33Ø
104▼	DCC050IRACC	50	1	1.6 †	10m	1.6 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45☑
105▼	DCC050IRBCA	50	1	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45a☑
106▼	DCC050RACC	50	2	1.6 †	10m	1.6 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45☑
107▼	DCC050RBCA	50	2	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45a☑
108▼	DCC050YACC	50	4	1.6 †	10m	1.6 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45☑
109▼	DCC050YBCA	50	4	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45a☑
110▼	DCC050GACC	50	5	1.6 †	10m	1.6 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. EMITTER ARRAY: LED & INFRARED EMITTING DIODE

IN ORDER OF: (1)NO. OF ELEMENTS (2) COLOR (3) PWR DISS-Pcase (4) IF & (5) TYPE No.

LINE No.	5 TYPE No.	1 No. OF ELEM	2 COLOR	MAX FWD VOLTAGE VF (V)	MAX FWD VOLTAGE IF (A)	MAX. RATINGS @ 25°C 3 PWR. DISSIP. Pcase (W)	MAX. RATINGS @ 25°C REV. VOLT VR (V)	MAX. RATINGS @ 25°C 4 FWD CURR. IF (A)	TEMP RNG. CODE - +	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY (MIN) Iv (cd)	LUMINOUS INTENSITY IF (A)	MIN IR RADIAT PWR Po (W)	BEAM ANGLE θHI (°)	RESP TIME (S)	MATERIAL & FEATURES MAT	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1▼	DCC050GBCA	50	5	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA45a☑
2▼	DCC100IRCA	100	1	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA46☑
3▼	DCC100IRCC	100	1	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA46b☑
4▼	DCC100IRH.E.CC	100	1	1.8 †	10m	3.2 *	15	20m	58%	63n	2.0m	10m			200n	CA Bar Graph	PA46b☑
5♦	DCC100RCA	100	2	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA	PA46☑
6♦	DCC100RCC	100	2	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	Bar Graph	PA46b☑
7▼	DCC100RH.E.CC	100	2	1.8 †	10m	3.2 *	15	20m	58%	63n	2.0m	10m			200n	CA Bar Graph	PA46b☑
8	DCC10030	100	2	2.0	20m	3.8 *	3.0	20m	57*	660n	1.0kØ	20m			35n	CA	PA5
9▼	DCC100YCA	100	4	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA46☑
10▼	DCC100YCC	100	4	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA46b☑
11▼	DCC100YH.E.CC	100	4	1.8 †	10m	3.2 *	15	20m	58%	63n	2.0m	10m			200n	CA Bar Graph	PA46b☑
12▼	DCC100GCA	100	5	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA46☑
13▼	DCC100GCC	100	5	1.6 †	10m	3.2 *	15	20m	58%	660n	1.0kØ	10m			35n	CA Bar Graph	PA46b☑
14▼	DCC100GH.E.CC	100	5	1.8 †	10m	3.2 *	15	20m	58%	63n	2.0m	10m			200n	CA Bar Graph	PA46b☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE	MINIMUM RESPONSIVITY Re (A/W)	SOUR -CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	SPECTRAL RANGE HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	MT L	LEAD CODE	DRAWING Ø-RND. ☐-RECT Δ-STRIP *-CHIP
1	PIN3DP	1				5.0		5C*	300m		850n		4.9m		300p			20p	AD	A	PD8hØ
2	PIN5DP	1				5.0		5C*	300m		850n		7.9m		500p			50p	AD	A	PD8jØ
3	PIN6DP	1				5.0		5C*	300m		850n		31m		1.8n			80p	AD	A	PD165Ø
4	PIN10DP	1				5.0		07*	300m		850n		155m		2.4n			1.0p	AD	A	PD166Ø
5#	AE960	1	50p†	5.0		60 †			500m†		900n		1.5m	10n#	10p	350n†	1.1u†			FØ	PD261
6#	AE961	1	100p	5.0		60 †			500m†		900n		3.9m	10n#	25p	350n†	1.1u†			FØ	PD259
7	PIN020A	1	150p	5.0		25			420m		800n		310u	5.0n	5.0p			6.0f#	AD	S	PD78Ø
8	HP5082-4205	1	150p	10	100m	50			1.5m†		770n	20	77u	1.0n	700n			14f	AD	J	PD5dØ
9#	AE962	1	200p†	5.0		60 †			500m†		900n		4.5m	15n#		350n†	1.1u†			FØ	PD259
10	PIN040A	1	400p	5.0		25			420m		800n		1.2m	5.0n	20p			100p#	AD	S	PD78Ø
11#	AE963	1	500p†	5.0		60 †			500m†		900n		32m	20n#		350n†	1.1u†			B☐	PD260
12	HP5082-4204	1	600p	10	100m	20			1.0m†		770n	20	310u	1.0n	2.0p			28f	AD	S	PD78Ø
13	PIN020B	1	800p	5.0		25			420m		800n		310u	5.0n	5.0p			200p#	AD	S	PD78Ø
14#	AE964	1	1.0n†	5.0		60 †			500m†		900n		99m	30n#		350n†	1.1u†			B☐	PD260
15	L4501	1	1.0n	6.0		6.0	10m	X8*	500m		850n	6.0	4.7u	6.0p§	.80p	500n	1.0u	100a#	AD		PD271Ø
16	L4502	1	1.0n	6.0		6.0	10m	X8*	500m		850n	6.0	16u	10p§	2.5p	500n	1.0u	100a#	AD		PD271Ø
17#	CG5500A	1	1.0n	10	100m	100	10m	27	450m		850n	10	64u	1.0n	5.0p	400n	1.1u		AD		Ø
18#	CG5600A	1	1.0n	10	100m	150		27	300m		850n	10	64u	1.0n	2.0p	400n	1.1u		AD		Ø
19#	MS502	1	1.0n	20	250m			5A*	3.2m$†		820n	10	240m	1.5n	2.6p					F	PD24Ø
20	SD2232▼	1	1.0n†	100	200m	180		6C*	500m†		875n		1.9m	1.1n	4.1p	907n$	1.1u		AD	AØ	PD348Ø
21#	MS500	1	1.2n	10	250m			5A*	3.2m$†		820n	10	240m	1.5n	2.6p					F	PD24Ø
22#	MS501	1	1.2n	10	250m			5A*	3.2m$†		820n	10	240m	1.5n	2.6p					F	PD24Ø
23#	BP104	1	2.0n	10	150m*	20		48*	710m		950n	5.0	7.8m	125n☐	48p☐	840n	1.0u	42f	AD	♦	PD278
24	MRD500	1	2.0n	20	100m	100 Ø		6M§	1.8m$†	E		20	5.7	1.0n	4.0p☐	800n†			AD	A§	PD7Ø
25	MRD510	1	2.0n	20	100m	100 Ø		6M§	400u$†	E		20	7.4	1.0n	4.0p☐	800n†			AD	A	PD8Ø
26	HP5082-4203	1	2.0n	25	100m	50			1.0m†		770n	20	310u	1.0n	1.5p			51f	AD	S	PD78Ø
27	HP5082-4207	1	2.5n	10	100m	20			4.0m†		770n	20	1.2m	1.0n	5.5p			57f	AD	S	PD78Ø
28	SGD040A	1	3.0n	100	200m	600 †		6F*	500m	E	900n		1.2u	3.0n	2.0p	350n	1.1u		AD	D	PD22bØ
29	SGD040B	1	3.0n	100	100m	600 †		6F*	500m	E	900n		1.2u	3.0n	2.0p	350n	1.1u		AD	D	PD22cØ
30	SGD040L	1	3.0n	100	200m	600 †		6F*	500m	E	900n		1.2u	3.0n	2.0p	350n	1.1u		AD	D	PD22bØ
31	PIN040B	1	4.0n	5.0		25			420m		800n		1.2m	5.0n	20p			900p#	AD	S	PD78Ø
32#	BPW24	1	5.0n	20	180m	50		2A*	500m	C	900n	20	991u	3.0n	6.0p				AD	§	PD7Ø
33	HP5082-4220	1	5.0n	25	100m	50			1.0m†		770n	20	310u	1.0n	2.0p			80f	AD	A	PD8aØ
34#	PD80PI	1	10n	10	200m	50		3A*	180n§	B		5.0	6.8m	200n	40p	400n	1.1u		AD	A	PD7pØ
35	SGD100A	1	10n	100	200m	600 †		6F*	500m	E	900n		7.9m	4.0n	4.0p	350n	1.1u		AD	D	PD22dØ
36	SPX2478-001▼	1	20n	25		50 †		6C*	500m		907n		1.9m	10n	4.0p	907n				AØ	PD348Ø
37	SPX2478-002▼	1	20n	25		50 †		6C*	500m		907n		1.9m	10n	4.0p	907n				AØ	PD96bØ
38	SPX1777▼	1	20n	90		180 Ø		6C*	500m		907n		1.9m$	1.5n#	4.2p	907n$			AD		PD351Ø
39	SD5426	1	20n	100		200 †			500m		907n		1.9m	1.5n	2.7p	907n$			AD	VØ	PD96aØ
40♦	OP905	1	30n	10	150m	33		48	490m†	E	850n	38	7.5 *	200n△	150p☐	300n	1.2u	40f	AD	♦	PD366☐
41♦	OP915	1	30n	10	150m	33		48	600m†	E	950n	38	7.5 *	50n△	30p☐	300n	1.2u	70f	AD	♦	PD366☐
42	PINLSC5D	1	30n	10		200 †		5C	550m		920n		17m	600n#	110p	350n	1.1u	110f			PD294☐
43	C30839	1	30n	45		100	10m	48*	560m†		900n	45	5.0 *	6.0n	5.5p	150n	1.1u	100f*	AD	EØ	PD363
44	DT25	1	30n	90		450			500m		900u		7.9m	5.0n#	7.0p				AD	D	PD22Ø
45	C30812	1	30n†	200	100m	225	10m	48*	600m		900n	200	7.7m	10n#	3.0p	400n†	1.1u†	150f	AD	G☐	PD109Ø
46	PIN3D	1	50n	10		50		5C*	300m		850n	10	4.9m	15n	10p			20p	AD	A	PD8hØ
47#	PN303	1	50n	10	100m	30		29						50n	70p				AD	A	PD14Ø
48	C30807	1	50n	45	10m	100	10m	48*	600m		900n	45	1.2m	3.0n#	2.5p	400n†	1.1u†	100f	AD	B§	PD8dØ
49	C30831	1	50n	45	1.0m	100		48*	600m		900n	45	300u	3.0n#	2.0p	400n†	1.1u†	100f	AD	B§	PD8dØ
50	SGD160	1	50n	100	350m	600 †		6F*	500m	E	900n		20m	7.0n	8.0p	350n	1.1u		AD	D	PD22eØ
51	YAG100	1	75n	180		250			650m		900n		7.9m	8.0n	3.5p	350n	1.1u		AD	D	PD22Ø
52	PINSC4D	1	100n	10		150 †		5C	550m		920n		10m	100n#	9.0p	350n	1.1u	10p			PD296Ø
53#	PD50PI	1	100n	30	50m	100		3A*	40n§	B		5.0	1.4m	80n	15p	400n	1.1u		AD	A	PD7nØ
54	C30808	1	150n	45	100m	100	10m	48*	600m		900n	45	7.7m	5.0n#	6.0p	400n†	1.1u†	150f	AD	F☐	PD109Ø
55	C30900E	1	150n	90		200	10m	48*	600m†		900n	90	7.7m	6.0n#	5.0p	400n†	1.1u†	500f	AD	G☐	PD109Ø
56	C30801	1	200n†	30	50m	100	10m	18*	600m		900n	30	7.7m	7.0n#	5.0p	400n†	1.1u†	400f	AD	E☐	PD109aØ
57	PIN5D	1	250n	10		100		5C*	300m		850n	10	7.9m	15n	15p			50p	AD	A	PD8iØ
58	C30822	1	250n	45	100m	100		48*	600m		900n	45	31m	7.0n#	17p	400n†	1.1u†	200f	AD	K§	PD108Ø
59	C30809	1	350n	45	100m	100	10m	48*	600m		900n	45	77m	10n#	35p	400n†	1.1u†	200f	AD	K§	PD108Ø
60	PIN6D	1	400n	10		50		5C*	300m		850n	10	31m	15n	60p			80p	AD	A	PD165Ø
61	C30842	1	400n	45		100	10m	48*	570m†		900n	45	100 *	16n	75p	150n	1.1u	400f*	AD	♦	PD105
62	DT110	1	400n	90		450			500m		900u		154m	10n#	100p				AD	D	PD21Ø
63	C30802	1	500n†	30	50m	100	10m	18*	600m		900n	30	31m	7.0n#	17p	400n†	1.1u†	600f	AD	E☐	PD109bØ
64	YAG444	1	600n	180		250			650m		900n		154m	8.0n	35p	350n	1.1u		AD	D	PD23Ø
65	YAG444-4	1	600n	180		250			650m		900n		154m	8.0n	35p	350n	1.1u		AD	D	PD23aØ
66	PINLSC30D	1	1.0u	5.0		5.0		5C	550m		920n		188m	200n#	9.3n	350n	1.1u	110f			PD295☐
67	PIN6LC	1	1.0u	10		50			250m		850n		17m	8.0n#	20p			60p#	AD		PD167Ø
68	PIN10	1	1.0u	10		100			250m		850n		193m	10n#	400p			1.0p#	AD		PD166aØ
69	PIN10AP	1	1.0u	10					2.0u§				155m	30n#	350p				Si		PD166cØ
70	PIN10DF	1	1.0u	10					100m				155m	30n#	350p	450n	950n		Si		PD166dØ
71	PIN10RP	1	1.0u	10					2.0u§				155m	30n#	350p	580n	720n		Si		PD166cØ
72	PIN8LC	1	1.5u	10		50			250m		850n		155m	10n#	100p			1.0p#	AD		PD166aØ
73	PIN10D	1	1.5u	10		100		07*	300m		850n	10	155m	25n	350p			1.0p	AD	A	PD166Ø
74	PINSC10D	1	1.5u	10		150 †		5C	550m		920n		160m	200n#	600p	350n	1.1u	10p			PD297Ø
75	C30810	1	1.5u	45	1.0m	100	10m	48*	600m		900n	45	155m	12n#	70p	400n†	1.1u†	450f	AD		PD105Ø
76	C30805	1	3.0u	200	100m	225		48*	600m		900n	200	155	15n#	8.0p	400n†	1.1u†	3.7p	AD		PD287Ø
77	PIN25	1	10u	10		100			250m		850n		930n	50n#	900p			5.0p#	AD		PD166bØ
78	PIN-L4	1	10u	10		50			250m		850n		403m		900p			100n#	AD		PD168☐
79	PIN5D/SB	1	10u	25		25		5A*	200m		450n		7.9m	1.0u	100p	350n	550n	470p#	AD		PD8jØ
80	PIN10D/SB	1	10u	25		25		5A*	200m		450n		155m	1.0u	100p	350n	550n	33p#	AD		PD166Ø
81	PIN-L9	1	20u	10		50			250m		850n		775m		1.9n			500n#	AD		PD168a☐
82	SGD444	1	20m	100	2.0	600 †		6F*	500m	E	900n		154m	10n	80p	350n	1.1u		AD	D	PD23Ø
83	SGD444-2	1	20m	100	2.0	600 †		6F*	500m	E	900n		154m	10n	80p	350n	1.1u		AD	D	PD23aØ
84	SGD444-4	1	20m	100	2.0	600 †		6F*	500m	E	900n		154m	10n	80p	350n	1.1u		AD	D	PD23bØ
85#	F788	1	5.0G*					XK*					387u	1.0u		9.5u	12u		CG		
86#	F789	1	5.0G*					XK*					1.5m	1.0u		9.5u	12u		CG		
87#	F785	1	8.0G*					XK*					9.9u	1.0u		9.5u	12u		CG		
88#	F787	1	8.0G*					XK*					81u	1.0u		9.5u	12u		CG		
89#	BPY12	1	670G*	20	150m	20		5A%	600m	C	850n	20	30m	150u	140p	400n	1.1u	67p	AD		PD142☐
90	SD3427L	1	1.9T*						580m		870n		2.6m	1.0n#	3.5p	4.9u	10u	70f	AD	F	PD96Ø
91	SD3427W	1	1.9T*						580m		870n		2.6m	10n#	3.5p	4.9u	10u	70f	AD	F	PD95Ø
92#	BPX65	1	3.1T*	20	250m	50		5C§	550m	C	850n	20	1.5m	500n#	15p	400	1.1u	330p	AD	A	PD8gØ
93#	BPX66	1	6.4T*	1.0	250m	50		5C§	550m	C	850n	1.0	1.5m	500n#	15p	400	1.1u	130p	AD	A	PD8qØ
94#	BPW34	1	6.6T*	10	150m*	32		48%	600m	C	850n	10	11m	50n	72p	400n	1.1u	420p	AD	A	PD144d☐
95#	BPX61	1	6.6T*	10	325m	32		4C§	600m	C	850n	10	11m	50n	72p	400n	1.1u	420p	AD	A	PD143Ø
96	L4509	1	7.0T*	25		25	25m	X8*	600m		850n	25	5.4m	130p§	15p	500n	1.1u		AD		PD273Ø
97	L4503	1	7.0T*	50		50	25m	X8*	600m		900n	50	5.4m	500p§	5.5p	400n	1.1u		AD		PD272Ø
98	L4504	1	7.0T*	90		90	25m	X8*	600m		900n	90	5.4m	250p§	4.0p	400n	1.1u		AD		PD272Ø
99	L4506	1	7.0T*	90		90	25m	X8*	600m		900n	90	5.4m	250p§	10p	400n	1.1u		AD		PD273Ø
100	TIED55	2	30p		100m	185		6C	15		900n		775u		1.2p	700n†	1.0ut		AD	A	PD38Ø
101	TIED56	2	30p		100m	185		6C	15		900n		775u		1.2p	700n†	1.0ut		AD	EØ	PD27Ø
102	TIED83	2	30p		100m	120		6C	20		632n		78u		4.0p	600n	1.0ut		AD	EØ	PD27Ø
103	TIED85	2	30p		50m	120		6C	20		632n		78u		4.0p	600n	1.0ut		AD	♦	PD43Ø
104	TIED87	2	30p		50m	185		6C	15		900n		78u		2.5p	700n	1.0ut		AD	♦	PD43Ø
105	TIED59	2	150p		100m	185		6C	15		900n		697u		8.5p	700n†	1.0ut		AD	BØ	PD42Ø
106	TIED84	2	150p		100m	120		6C	20		632n		706u		25p	600n	1.0ut		AD	BØ	PD42Ø
107	TIED86	2	150p		50m	120		6C	20		632n		706u		17p	600n	1.0ut		AD	♦	PD43Ø
108	TIED88	2	150p		50m	185		6C	15		900n		706u		9.0p	700n†	1.0ut		AD	♦	PD43Ø
109	TIED451	2	150p		100m	185		46	15		900n		706u		8.5p	700n	1.0u		AD	BØ	PD44Ø
110#	CG540	2	200p	10	100m	25		24	500m		800n		150m		5.0p	450n	900n	600f	AD		PDØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR-CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	SPECTRAL RANGE HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	M T L	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1	TIED69	2	700p		100m	185		6C	15		900n		2.7m		30p	700n†	1.0u†		AD	BØ	PD42Ø
2	TIED89	2	700p		50m	185		6C	15		900n		2.8m		30p	700n†	1.0u†		AD	♦	PD43Ø
3#	CG512	2	2.0n	10	100m	100		07	200m		1.0n		480m		6.0p	600n	1.0m	1.0f	AD		PDØ
4#	BPW28	2	5.0n		100m	200		6C*					47u		1.2p☑	450n	950n		AD	B	PD192Ø
5	C30902E	2	30n	180	100m	250	5.0m	47*	65 †		900n	180	310u	500p#	1.6p	400n†	1.0u†	3.0f	AD	A	PD288Ø
6	C30908E	2	30n	215	100m	225 †	5.0m	47*	55		900n		77u§	500p#	1.6p	400n	1.0u	230f*	AD	X	PD286Ø
7	C30817	2	50n†	300	100m	20		47*	75 †		900n	300	800u	2.0n#	2.0p	400n	1.1u	15f	AD	J☑	PD109Ø
8	C30884	2	100n†	300	100m	330	5.0m	47*	63 †		900n	300	774m	1.0n#	4.0p	400n	1.1u	13f		AØ	PD42jØ
9	C30895	2	100n†	350	100m	425	5.0m	47*	75 †		900n	350	774m	2.0n#	2.0p	700n	1.1u	15f		AØ	PD42jØ
10	C30904E	2	200n	350	100m	375 †	5.0m	47*	65		900n		310u§	2.0n#	2.0p	400n	1.1u	1.0p*	AD	X	PD286Ø
11	C30916E	2	200n	350		390 †	5.0m	47*	43		900n	350	1.8 *	3.0n	3.0p	400n	1.1u	1.0p*	AD	Z	PD363a
12	C30872	2	300n	335	100m	425	5.0m	47*	37 †		900n	335	11m	2.0n#	10p	400n†	1.1u†	30f	AD	K§	PD108Ø
13	C30905E	2	400n	350	100m	390 †	5.0m	47*	43		900n		1.8m§	3.0n#	3.5p	400n	1.1u	1.0p*	AD	X	PD286Ø
14	1319	3				22			300k☑	J			376u	200u		1.0u	3.0u		BH		PD183Ø
15	1319BB	3				22			300k☑	J			376u	200u		1.0u	3.0u		BH		PD183aØ
16	1319M	3				22			300k☑	J			376u	200u		1.0u	3.0u		BH		PD183bØ
17	1319MF	3				22			300k☑	J			376u	200u		1.0u	3.0u		BH		PD183cØ
18	1620	3				7.5			4.0k☑	J			34m	500u		1.0u	3.0u		BH		PD183Ø
19	1620BB	3				7.5			4.0k☑	J			34m	500u		1.0u	3.0u		BH		PD183aØ
20	1620M	3				7.5			4.0k☑	J			34m	500u		1.0u	3.0u		BH		PD183bØ
21	1620MF	3				7.5			4.0k☑	J			34m	500u		1.0u	3.0u		BH		PD183cØ
22	8016	3				10			470m		900n		1.5m		30p	350n	1.1u	110p	AD		PD169aØ
23	8016-L	3				10			470m		900n		1.5m		30p	350n	1.1u	11f	AD	A§	PD169fØ
24	8035	3				10			470m		900n		7.9m		150p	350n	1.1u	170p	AD		PD169fØ
25	8058	3				10			470m		900n		46m		800p	350n	1.1u	220p	AD		PD165cØ
26	8110	3				10			470m		900n		154m		2.6n	350n	1.1u	500p	AD		PD165bØ
27	8235	3				10			470m		900u		7.9m		150p	200n	1.1u	12p	AD		PD169fØ
28	8258	3				10			470m		900u		46m		800p	200n	1.1u	15p	AD		PD162cØ
29	L401♦	3						27	1.0u				1.5m		20p	2.0u	20u				PD318
30♦	P1-11♦	3			50m*			58*	500n		632n		1.5m		15p	1.0n	1.0m		ED	♦	PD344Ø
31♦	P1-11H♦	3			500m*			58*	130n		632n		1.5m		3.0p	1.0n	1.0m		ED	♦	PD344aØ
32♦	P1-12♦	3			50m*			58*	250n		632n		6.2m		24p	1.0n	1.0m		ED	♦	PD344Ø
33♦	P1-12H♦	3			1.0 *			58*	130n		632n		6.2m		12p	1.0n	1.0m		ED	♦	PD344aØ
34♦	P1-13♦	3			50m*			58*	250n		632n		14m		54p	1.0n	1.0m		ED	♦	PD344Ø
35♦	P1-13H♦	3			1.0 *			58*	130n		632n		14m		27p	1.0n	1.0m		ED	♦	PD344aØ
36♦	P1-15♦	3			50m*			58*	130n		632n		39m		75p	1.0n	1.0m		ED	♦	PD344Ø
37♦	P1-15H♦	3			1.0 *			58*	130n		632n		39m		75p	1.0n	1.0m		ED	♦	PD344aØ
38#	RPY86♦	3				30 ☑		2A	640 ☑†		10u	9.0 #	3.1m			6.5u	14u	1.3n		KK	PD377Ø
39#	RPY87♦	3				30 ☑		2A	500 ☑†		6.0u	9.0 #	3.1m			1.0u	15u	1.7n		KK	PD377Ø
40#	RPY88♦	3				30 ☑		2A	320 ☑†		10u	9.0 #	6.2m			6.5u	14u	2.0n		KK	PD377Ø
41#	RPY89♦	3				30 ☑		2A	250 ☑†		6.0u	9.0 #	6.2m			1.0u	15u	2.5n		KK	PD377Ø
42	SD8734-1	3						EX♦					1.2m		40n#	5.0u§	5.3u§		BG		PD113Ø
43	SD8735-1	3						EX♦					1.2m		40n#	5.0u§	5.3u§		BG		PD113Ø
44	SD8736-1	3						EX♦					1.2m		40n#	5.0u§	5.3u§		BG		PD113Ø
45	T301♦	3			1.0			1A	1.5u				1.5m	150n#	200p	300n	300u				
46	T302♦	3			1.0			1A	1.5u				15m	150n#	200p	300n	300u				
47#	BPY77	3	500p	10	500m*	100	40m	5M*	10u§	F	900n		154u	500p	3.0p	400n	1.0u		AD	A	PD7cØ
48	MFOD100▼	3	2.0n	20	100m	200 †		5H§	400m		900n		19m§	1.0n	4.0p	520n	950n			A	PD7gØ
49	TXED453C025▼	3	10n	25	100m	100 †		27☑	250m		790n	12		60n	2.0p	400n†	1.1u†		AD	GØ	PD374Ø
50	TXED453C050▼	3	10n	25	100m	100 †		27☑	230m		790n	12		60n	2.0p	400n†	1.1u†		AD	GØ	PD374aØ
51	TXED453C100▼	3	10n	25	100m	100 †		27☑	200m		790n	12		60n	2.0p	400n†	1.1u†		AD	GØ	PD374bØ
52	7016	3	10n	100		200			470m		900n	100	1.5m	2.0n#	2.0p	350n	1.1u	370p	AD		PD161cØ
53	7016-L	3	10n	100		200			470m		900n	100	1.5m	2.0n	2.0p	350n	1.1u	37f	AD	GØ	PD161bØ
54#	OSD1-3HSA	3	20n†	100		100			75 #		900n		1.5m	2.0n#	3.0p	900n	1.0u	70f	AD	VØ	PD27bØ
55	MC32	3	40n	100					450m		905n		6.9m	5.0n#	6.0p	890n	1.1u	200f		A	PD352Ø
56#	BPX69	3	50n	50	80m	100		6C*	450n§	C		50	2.3m	13u#	3.5p	500n	1.1u		AD		
57#	OSD1-4HSA1	3	50n†	100		100			30 #		1.0u		1.5m	10n#	3.0p	900n	1.0u	70f	AD	VØ	PD27bØ
58#	OSD1-4HSA2	3	50n†	180		180			45 #		1.0u		1.5m	15n#	2.5p	900n	1.0u	70f	AD	VØ	PD27bØ
59	7225	3	60n	180		300			430m		1.0u	180	7.9m	8.0n#	3.0p	350n	1.1u	15p	AD		PD161bØ
60	7025	3	75n	100		200			470m		900n	100	7.9m	4.0n#	4.0p	350n	1.1u	580p	AD		PD161bØ
61	7258	3	100n	180		300			430m		1.0u	180	30m	8.0n#	12p	350n	1.1u	29p	AD		PD108bØ
62	7058	3	250n	100		200			470m		900n	100	30m	7.0n#	12p	350n	1.1u	14p	AD		PD108bØ
63♦#	OSD50-3	3	350n†	30		100			75 #		900n		50 *	10n#		630n	900n	570f	AD	♦	PD199bØ
64♦#	OSD50-4	3	350n†	30		180			60 #		900n		50 *	20n#	26p	900n	1.0u	570f	AD	♦	PD199bØ
65♦#	OSD100-3	3	800n†	30		100			75 #		900n		100 *	10n#		630n	900n	870f	AD	♦	PD201bØ
66♦#	OSD100-4	3	800n†	30		180			60 #		900n		100 *	20n#	50p	900n	1.0u	870f	AD	♦	PD201bØ
67	7110	3	1.0u	100		200			470m		900n	100	154m	20n#	70p	350n	1.1u	38p	AD		PD108aØ
68♦#	OSD200-3	3	1.8u†	30		100			75 #		900n		200 *	10n#		630n	900n	1.3p	AD	♦	PD202aØ
69♦#	OSD200-4	3	1.8u†	30		180			60 #		900n		200 *	20n#	83p	900n	1.0u	1.3p	AD	♦	PD202aØ
70♦#	OSD300-2	3	3.0u†	30		60			65 #		630n		300 *	10n#		630n	900n	1.7p	AD	♦	PD202aØ
71♦#	OSD300-3	3	3.0u†	30		100			75 #		900n		300 *	10n#		630n	900n	1.7p	AD	♦	PD202aØ
72♦#	OSD300-4	3	3.0u†	30		180			60 #		900n		300 *	20n#	133p	900n	1.0u	1.7p	AD	♦	PD202aØ
73	L4520	3	10u	6.0		6.0	10m	X8*	500m		1.5u	6.0	47u	100p§	5.0p	1.0u	1.8u	100a#	AB		PD271aØ
74	L4521	3	10u	10		20	10m	X8*	1.0 †		1.5u	10	1.2m	300p§	40p	1.0u	1.8u		AB		PD274Ø
75#	RPY77	3	15M*				25m	57*	3.5 ☑		6.0u		6.1m	100n		2.0u	7.0u		BG		PD131☑
76#	RPY78	3	15M*				25m	57*	3.3 ☑		6.0u		6.1m	100n		2.0u	7.0u		BG		PD131☑
77#	RPY76A	3	100M*		20m			25*	200m		2.0u		1.5m	250u		1.5u	3.0u	10p	BH	☑	PD42cØ
78#	802CPY	3	120M*						1.0k☑							2.0u	25u	1.5n#			PD132Ø
79#	ORP10	3	200M*					57*	400m☑		6.0u		4.6m	100n		1.1u	7.5u	860p	BG		PD121☑
80#	825CPY	3	600M*			9.0		14$	200k☑				4.6m			2.0u	25u	30n#			PD134Ø
81	4003	3	1.0G*					26*	4.0k☑				1.5m	1.0u§		1.0u	4.5u		BS		PD187Ø
82	4005	3	1.0G*					26*	2.0k☑				6.2m	1.0u§		1.0u	4.5u		BS		PD187Ø
83	4006	3	1.0G*					26*	1.3k☑				13m	1.0u§		1.0u	4.5u		BS		PD187Ø
84	4007	3	1.0G*					26*	1.0k☑				24m	1.0u§		1.0u	4.5u		BS		PD187Ø
85	4080	3	1.0G*					X2*					6.2m	5.0u§		1.0u	5.0u		Se		PD355☑
86	5035	3	1.0G*					26*	4.0k☑				1.5m	1.0u§		1.0u	4.5u		BS		PD169dØ
87	5055	3	1.0G*					26*	2.0k☑				6.2m	1.0u§		1.0u	4.5u		BS		PD169dØ
88	5065	3	1.0G*					26*	1.3k☑				13m	1.0u§		1.0u	4.5u		BS		PD169dØ
89	OTC3MI52	3	1.0G*					26*	3.0 ☑		5.7u		6.2m	20n§		5.7u	6.0u†		BG		PD162Ø
90	OTC3MI52T	3	1.0G*					26*	3.0 ☑		5.7u		6.2m	20n§		5.7u	6.0u†		BG		PD162aØ
91	OTC3MI52TC	3	1.0G*					26*	3.0 ☑		5.7u		6.2m	20n§		5.7u	6.0u†		BG		PD162bØ
92#	RPY75	3	1.0G*		20m			25*	200m		2.0u		1.5m	250u		500n	3.0u				PD133☑
93#	RPY75A	3	1.0G*		20m			25*	200m		2.0u		1.5m	250u		1.5u	3.0u				PD133☑
94#	RPY76	3	1.0G*		20m			25*	200m		2.0u		1.5m	250u		500n	3.0u			Ø	PD42fØ
95	GeAu-1-40742HS	3	1.5G*					KX♦					1.2m	2.0n§		1.0u	10u		BJ		PD152Ø
96	GeAu-1-44782HS	3	1.5G*					KX♦					1.2m	2.0n§		1.0u	10u		BJ		PD153Ø
97	GeAu-2-40742HS	3	1.5G*					KX♦					4.8m	2.0n§		1.0u	10u		BJ		PD152Ø
98	GeAu-2-44782HS	3	1.5G*					KX♦					4.8m	2.0n§		1.0u	10u		BJ		PD153Ø
99	GeAu-.5-40742HS	3	1.5G*					KX♦					304u	2.0n§		1.0u	10u		BJ		PD152Ø
100	GeAu-.5-44782HS	3	1.5G*					KX♦					304u	2.0n§		1.0u	10u		BJ		PD153Ø
101	OE10-01	3	2.5G*			125		26*	4.0k☑		3.8u		1.5m	1.5u§		1.0u	5.0u		BS		PD160gØ
102	OE10-02	3	2.5G*			200		26*	2.0k☑		3.8u		6.2m	1.5u§		1.0u	5.0u		BS		PD160hØ
103	OE10-03	3	2.5G*			250		26*	1.3k☑		3.8u		13m	1.5u§		1.0u	5.0u		BS		PD160jØ
104	OE10-04	3	2.5G*						1.0k☑		3.8u		24m	1.5u§		1.0u	5.0u		BS		PD160kØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR -CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	SPECTRAL RANGE HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	MT L	LEAD CODE	DRAWING Ø-RND. ☐-RECT Δ-STRIP *-CHIP
1	OE15-51	3	2.5G*			125		26*	4.0k☐		3.7u		1.5m	1.0u		3.7u	4.0u		BS		PD161aØ
2	OE15-52	3	2.5G*			200		26*	2.0k☐		3.7u		6.2m	1.0u		3.7u	4.0u		BS		PD161aØ
3	OE15-53	3	2.5G*			250		26*	1.3k☐		3.7u		13m	1.0u		3.7u	4.0u		BS		PD161aØ
4	OE15-181	3	2.5G*			125		26*	4.0k☐		3.7u		1.5m	1.0u		3.7u	4.0u		BS		PD161Ø
5	A200	3	2.6G*					KX					15m	1.0u		1.0u	9.0u	70p	AD		PD317
6	GeAu-1-40A	3	3.0G*					KX♦	400m				1.5m	100n§		1.0u	10u		BJ		PD147Ø
7	GeAu-1-60A	3	3.0G*					KX♦	400m				1.5m	100n§		1.0u	10u		BJ		PD148Ø
8	GeAu-2-40A	3	3.0G*					KX♦	400m				3.0m	100n§		1.0u	10u		BJ		PD147Ø
9	GeAu-2-60A	3	3.0G*					KX♦	400m				3.0m	100n§		1.0u	10u		BJ		PD148Ø
10	GeAu-.5-40A	3	3.0G*					KX♦	400m				774u	100n§		1.0u	10u		BJ		PD147Ø
11	GeAu-.5-60A	3	3.0G*					KX♦	400m				774u	100n§		1.0u	10u		BJ		PD148Ø
12	SD5621	3	3.0G*					X2♦					1.2m		15n#	3.6u§	3.8u§		BF		PD95Ø
13#	F467	3	4.5G*					85*	1.6k☐		500n		82u	200n		3.0u	6.0u		CG		PD137*
14#	F471	3	4.5G*					85*	1.6k☐		500n		82u	200n		3.0u	6.0u		CG		PD137a*
15#	LGC600C	3	5.0G*					KX♦	5.0				387u			800n	1.4u		CH		PD249Ø
16	PbSeATO-1-10A	3	5.0G*					X2♦	1.0k☐	K	2.4u		1.2m	5.0u§		1.0u	4.5u		BS		PD150Ø
17	PbSeATO-2-10A	3	5.0G*					X2♦	1.0k☐	K	2.4u		4.8m	5.0u§		1.0u	4.5u		BS		PD150Ø
18	2-312	3	6.0G*						350m		5.0u	0.0	6.3m			1.0u	5.5u		BG		PD315Ø
19	5635	3	7.5G*		2.0	1.0	2.0	X6*	6.0k☐				1.5m	10u§		1.0u	5.0u		BS		PD162dØ
20	5637	3	7.5G*		2.0	1.0	2.0	X6*	6.0k☐				1.5m	10u§		1.0u	5.0u		BS		PD184bØ
21	5655	3	7.5G*		2.0	1.0	2.0	X6*	3.0k☐				6.2m	10u§		1.0u	5.0u		BS		PD162dØ
22	5657	3	7.5G*		2.0	1.0	2.0	X6*	3.0k☐				6.2m	10u§		1.0u	5.0u		BS		PD184bØ
23	5665	3	7.5G*		2.0	1.0	2.0	X6*	2.0k☐				13m	10u§		1.0u	5.0u		BS		PD162dØ
24	5667	3	7.5G*		2.0	1.0	2.0	X6*	2.0k☐				13m	10u§		1.0u	5.0u		BS		PD184bØ
25	OTC11-51	3	7.5G*					26*	6.0k☐		4.1u		1.5m	10u		4.1u	4.5u†		BS		PD162Ø
26	OTC11-51T	3	7.5G*					26*	6.0k☐		4.1u		1.5m	10u		4.1u	4.5u†		BS		PD162aØ
27	OTC11-51TC	3	7.5G*					26*	6.0k☐		4.1u		1.5m	10u		4.1u	4.5u†		BS		PD162aØ
28	OTC11-52	3	7.5G*					26*	3.0k☐		4.1u		6.2m	10u		4.1u	4.5u†		BS		PD162Ø
29	OTC11-52T	3	7.5G*					26*	3.0k☐		4.1u		6.2m	10u		4.1u	4.5u†		BS		PD162aØ
30	OTC11-52TC	3	7.5G*					26*	3.0k☐		4.1u		6.2m	10u		4.1u	4.5u†		BS		PD162bØ
31	OTC11-53	3	7.5G*					26*	2.0k☐		4.1u		13m	10u		4.1u	4.5u†		BS		PD162Ø
32	OTC11-53T	3	7.5G*					26*	2.0k☐		4.1u		13m	10u		4.1u	4.5u†		BS		PD162bØ
33	OTC11-53TC	3	7.5G*					26*	2.0k☐		4.1u		13m	10u		4.1u	4.5u†		BS		PD162bØ
34	SiAs-1-9145-1	3	9.0G*					TX♦					1.2m			1.0u	23u		BQ		PD154Ø
35	SiAs-2-9145-1	3	9.0G*					TX♦					4.8m			1.0u	23u		BQ		PD154Ø
36	SiAs-.5-9145-1	3	9.0G*					TX♦					304u			1.0u	23u		BQ		PD154Ø
37	SiGa-1-9145-1	3	9.0G*					SX♦					1.2m			1.0u	17u		BR		PD154Ø
38	SiGa-2-9145-1	3	9.0G*					SX♦					4.8m			1.0u	17u		BR		PD154Ø
39	SiGa-.5-9145-1	3	9.0G*					SX♦					304u			1.0u	17u		BR		PD154Ø
40	503	3	10G*		Ø			KX					1.2m	250n	12n	6.5u	13u		CH		PD313
41	GeHg-1-9145-1	3	10G*					SX♦					1.2m	100n§		2.0u	14u		BK		PD154Ø
42	GeHg-1-9145-2HS	3	10G*					SX♦					1.2m	1.0n§		2.0u	14u		BK		PD154aØ
43	GeHg-2-9145-1	3	10G*					SX♦					4.8m	100n§		2.0u	14u		BK		PD154Ø
44	GeHg-2-9145-2HS	3	10G*					SX♦					4.8m	1.0n§		2.0u	14u		BK		PD154aØ
45	GeHg-.5-9145-1	3	10G*					SX♦					304u	100n§		2.0u	14u		BK		PD154Ø
46	GeHg-.5-9145-2HS	3	10G*					SX♦					304u	1.0n§		2.0u	14u		BK		PD154aØ
47	GeZn-1-9145-1	3	10G*					UX♦					1.2m			2.0u	40u		BP		PD154Ø
48	GeZn-2-9145-1	3	10G*					UX♦					4.8m			2.0u	40u		BP		PD154Ø
49	GeZn-.5-9145-1	3	10G*					UX♦					304u			2.0u	40u		BP		PD154Ø
50#	LGC600B	3	10G*					KX♦	5.0				387u			800n	1.4u		CH		PD249Ø
51	OTC12-51	3	13G*			125		26*	9.0k☐		4.2u		1.5m	25u§		4.2u	4.6u†		BS		PD162bØ
52	OTC12-51T	3	13G*			125		26*	9.0k☐		4.2u		1.5m	25u§		4.2u	4.6u†		BS		PD162cØ
53	OTC12-51TC	3	13G*			125		26*	9.0k☐		4.2u		1.5m	25u§		4.2u	4.6u†		BS		PD162cØ
54	OTC12-52	3	13G*			200		26*	4.5k☐		4.2u		6.2m	25u§		4.2u	4.6u†		BS		PD162bØ
55	OTC12-52T	3	13G*			200		26*	4.5k☐		4.2u		6.2m	25u§		4.2u	4.6u†		BS		PD162cØ
56	OTC12-52TC	3	13G*			200		26*	4.5k☐		4.2u		6.2m	25u§		4.2u	4.6u†		BS		PD162cØ
57	OTC12-53	3	13G*			250		26*	3.0k☐		4.2u		13m	25u§		4.2u	4.6u†		BS		PD162bØ
58	OTC12-53T	3	13G*			250		26*	3.0k☐		4.2u		13m	25u§		4.2u	4.6u†		BS		PD162cØ
59	OTC12-53TC	3	13G*			250		26*	3.0k☐		4.2u		13m	25u§		4.2u	4.6u†		BS		PD162cØ
60	OTC12-84	3	13G*		2.0 †			26*	2.3k☐		4.6u		24m	12u§		1.0u	5.0u		BS	♦	PD214Ø
61	OTC12-84T	3	13G*		2.0 †			26*	2.3k☐		4.6u		24m	12u§		1.0u	5.0u		BS	♦	PD214Ø
62	OTC12-84TC	3	13G*		2.0 †			26*	2.3k☐		4.6u		24m	12u§		1.0u	5.0u		BS	♦	PD214Ø
63	OTC12-85	3	13G*		2.0 †			26*	1.8k☐		4.6u		38m	12u§		1.0u	5.0u		BS	♦	PD214Ø
64	OTC12-85T	3	13G*		2.0 †			26*	1.8k☐		4.6u		38m	12u§		1.0u	5.0u		BS	♦	PD214Ø
65	OTC12-85TC	3	13G*		2.0 †			26*	1.8k☐		4.6u		38m	12u§		1.0u	5.0u		BS	♦	PD214Ø
66#	F584	3	14G*					47*	18 ☐				8.7u	3.0u		2.5u	5.5u		CG		PD136Ø
67#	F608	3	14G*					47*	38 ☐				81u	3.0u		2.5u	5.5u		CG		PD136Ø
68	GeCu-1-9145-1	3	15G*					TX♦					1.2m	100n§		2.0u	30u		BM		PD154Ø
69	GeCu-1-9145-2HS	3	15G*					TX♦					4.8m	1.0n§		2.0u	30u		BM		PD154aØ
70	GeCu-2-9145-1	3	15G*					TX♦					304u	100n§		2.0u	30u		BM		PD154Ø
71	GeCu-2-9145-2HS	3	15G*					TX♦					304u	1.0n§		2.0u	30u		BM		PD154aØ
72	GeCu-.5-9145-1	3	15G*					TX♦					1.2m	100n§		2.0u	30u		BM		PD154Ø
73	GeCu-.5-9145-2HS	3	15G*					TX♦					4.8m	1.0n§		2.0u	30u		BM		PD154aØ
74	OTC12-81	3	15G*		3.0			26*	9.0k☐		4.6u		1.5m	12u§		1.0u	5.0u		BS	♦	PD214Ø
75	OTC12-81T	3	15G*		3.0			26*	9.0k☐		4.6u		1.5m	12u§		1.0u	5.0u		BS	♦	PD214Ø
76	OTC12-81TC	3	15G*		3.0			26*	9.0k☐		4.6u		1.5m	12u§		1.0u	5.0u		BS	♦	PD214Ø
77	OTC12-82	3	15G*		3.0			26*	4.5k☐		4.6u		6.2m	12u§		1.0u	5.0u		BS	♦	PD214Ø
78	OTC12-82T	3	15G*		3.0			26*	4.5k☐		4.6u		6.2m	12u§		1.0u	5.0u		BS	♦	PD214Ø
79	OTC12-82TC	3	15G*		3.0			26*	4.5k☐		4.6u		6.2m	12u§		1.0u	5.0u		BS	♦	PD214Ø
80	OTC12-83	3	15G*		3.0			26*	3.0k☐		4.6u		13m§	12u§		1.0u	5.0u		BS	♦	PD214Ø
81	OTC12-83T	3	15G*		3.0			26*	3.0k☐		4.6u		13m§	12u§		1.0u	5.0u		BS	♦	PD214Ø
82	OTC12-83TC	3	15G*		3.0			26*	3.0k☐		4.6u		13m§	12u§		1.0u	5.0u		BS	♦	PD214Ø
83	OTC12S-81T	3	15G*		4.0			26*	12k☐		4.6u		1.5m			1.0u	5.0u		BS		PD214Ø
84	OTC12S-81TC	3	15G*		4.0			26*	12k☐		4.6u		1.5m			1.0u	5.0u		BS		PD214Ø
85	OTC12S-82T	3	15G*		4.0			26*	6.5k☐		4.6u		6.2m	15u§		1.0u	5.0u		BS	♦	PD214Ø
86	OTC12S-82TC	3	15G*		4.0			26*	6.5k☐		4.6u		6.2m	15u§		1.0u	5.0u		BS	♦	PD214Ø
87	OTC12S-83T	3	15G*		4.0			26*	4.0k☐		4.6u		13m	15u§		1.0u	5.0u		BS	♦	PD214Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID
(3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR-CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	MTL	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1	OTC12S-83TC	3	15G*		4.0			26*	4.0k☑		4.6u		13m	15u§		1.0u	5.0u		BS	♦	PD214Ø
2	OTC12S-84T	3	15G*		4.0			26*	3.0k☑		4.6u		24m	15u§		1.0u	5.0u		BS	♦	PD214Ø
3	OTC12S-84TC	3	15G*		4.0			26*	3.0k☑		4.6u		24m	15u§		1.0u	5.0u		BS	♦	PD214Ø
4	OTC12S-85T	3	15G*		4.0			26*	2.4k☑		4.6u		38m	15u§		1.0u	5.0u		BS	♦	PD214Ø
5	OTC12S-85TC	3	15G*		4.0			26*	2.4k☑		4.6u		38m	15u§		1.0u	5.0u		BS	♦	PD214Ø
6	PbSnTe-1-40742	3	15G*					KX♦	2.0	K	10u		1.2m	1.0u§	1.5u#	2.0u	13u		CH		PD153Ø
7	PbSnTe-1-44782	3	15G*					KX♦	2.0	K	10u		1.2m	1.0u§	1.5u#	2.0u	13u		CH		PD154Ø
8	PbSnTe-1-520A	3	15G*					KX♦	2.0	K	10u		1.2m	1.0u§	1.5u#	2.0u	13u		CH		PD151Ø
9	PbSnTe-1-520AS	3	15G*					KX♦	2.0	K	10u		1.2m	1.0u§	1.5u#	2.0u	13u		CH		PD151aØ
10	PbSnTe-.5-40742	3	15G*					KX♦	2.0	K	10u		304u	1.0u§	1.5u#	2.0u	13u		CH		PD153Ø
11	PbSnTe-.5-44782	3	15G*					KX♦	2.0	K	10u		304u	1.0u§	1.5u#	2.0u	13u		CH		PD154Ø
12	PbSnTe-.5-520A	3	15G*					KX♦	2.0	K	10u		304u	1.0u§	1.5u#	2.0u	13u		CH		PD151Ø
13	PbSnTe-.5-520AS	3	15G*					KX♦	2.0	K	10u		304u	1.0u§	1.5u#	2.0u	13u		CH		PD151aØ
14	5800	3	18G*		Δ			X2*						50u§		1.0u	5.5u		BS		PD185Ø
15	5840	3	18G*		Δ			X2*						80u		1.0u	5.5u		BS		PD186Ø
16	502	3	20G*		Ø			KX					1.2m	500n	12n	6.0u	11u		CH		PD313
17	5802	3	20G*		$			x2*						50u§		1.0u	5.5u		BS		PD185Ø
18	5804	3	20G*		Ø			x2*						50u§		1.0u	5.5u		BS		PD185Ø
19	5805	3	20G*		Ø			X2*						50u§		1.0u	5.5u		BS		PD152Ø
20	5842	3	20G*		$			x2*						50u§		1.0u	5.5u		BS		PD186Ø
21	5844	3	20G*		Ø			x2*						50u§		1.0u	5.5u		BS		PD186Ø
22	5845	3	20G*		Ø			X2*						50u§		1.0u	5.5u		BS		PD153Ø
23	GeCd-1-9145-1	3	20G*					SX♦					1.2m			2.0u	23u		BN		PD154Ø
24	GeCd-2-9145-1	3	20G*					SX♦					4.8m			2.0u	23u		BN		PD154Ø
25	GeCd-.5-9145-1	3	20G*					SX♦					304u			2.0u	23u		BN		PD154Ø
26	HgCdTe-1-40A	3	20G*					KX*	3.0 †		13		1.5m	800n§		11u	13u		CG		PD147Ø
27	HgCdTe-1-40AS	3	20G*					KX*	3.0 †		13		1.5m	800n§		11u	13u		CG		PD147aØ
28	HgCdTe-1-40742	3	20G*					KX*	3.0 †		13		774u	800n§		11u	13u		CG		PD152Ø
29	HgCdTe-1-44782	3	20G*					KX*	3.0 †		13		1.5m	800n§		11u	13u		CG		PD153Ø
30	HgCdTe-1-520AS	3	20G*					KX♦	100 ☑		15u		1.2m	800n§		6.0u	15u		CG		PD151aØ
31	HgCdTe-1-60A	3	20G*					KX*	3.0 †		13		1.5m	800n§		11u	13u		CG		PD148Ø
32	HgCdTe-1-60AS	3	20G*					KX*	3.0 †		13		1.5m	800n§		11u	13u		CG		PD148aØ
33	HgCdTe-.5-40A	3	20G*					KX*	3.0 †		13		774u	800n§		11u	13u		CG		PD147Ø
34	HgCdTe-.5-40AS	3	20G*					KX*	3.0 †		13		774u	800n§		11u	13u		CG		PD147aØ
35	HgCdTe-.5-40742	3	20G*					KX*	3.0 †		13		774u	800n§		11u	13u		CG		PD152Ø
36	HgCdTe-.5-44782	3	20G*					KX*	3.0 †		13		774u	800n§		11	13		CG		PD153Ø
37	HgCdTe-.5-520AS	3	20G*					KX♦	100 ☑		15u		304u	800n§		6.0u	15u		CG		PD151aØ
38	HgCdTe-.5-60A	3	20G*					KX*	3.0 †		13		774u	800n§		11u	13u		CG		PD148Ø
39	HgCdTe-.5-60AS	3	20G*					KX*	3.0 †		13		774u	800n§		11u	13u		CG		PD148aØ
40#	LGC600A	3	20G*					KX♦	5.0				387u			800n	1.4u		CH		PD249Ø
41	501	3	30G*		Ø			KX					1.2m	500n	12n	5.0u	10u		CH		PD313
42	1101	3	30G*					X2*					96u	40u§		1.0u	3.0u		BH		PD182☑
43	1102	3	30G*					X2*					387u	40u§		1.0u	3.0u		BH		PD182☑
44	1103	3	30G*					X2*					1.5m	40u§		1.0u	3.0u		BH		PD182☑
45	1104	3	30G*					X2*					3.4m	40u§		1.0u	3.0u		BH		PD182☑
46	1105	3	30G*					X2*					6.2m	40u§		1.0u	3.0u		BH		PD182☑
47	1106	3	30G*					X2*					13m	40u§		1.0u	3.0u		BH		PD182☑
48	1107	3	30G*					X2*					24m	40u§		1.0u	3.0u		BH		PD182☑
49	1108	3	30G*					X2*					38m	40u§		1.0u	3.0u		BH		PD182☑
50	1109	3	30G*					X2*					55m	40u§		1.0u	3.0u		BH		PD182☑
51	1110	3	30G*					X2*					99m	40u§		1.0u	3.0u		BH		PD182☑
52	1111	3	30G*					X2*					155m	40u§		1.0u	3.0u		BH		PD182☑
53	1112	3	30G*					X2*					387u	40u§		1.0u	3.0u		BH		PD182☑
54	1113	3	30G*					X2*					3.1m	40u§		1.0u	3.0u		BH		PD182☑
55	1114	3	30G*					X2*					4.6m	40u§		1.0u	3.0u		BH		PD182☑
56	1115	3	30G*					X2*					6.2m	40u§		1.0u	3.0u		BH		PD182☑
57	1121	3	30G*					X2*					968u	40u§		1.0u	3.0u		BH		PD182☑
58	2101	3	30G*					X2*					96u	40u§		1.0u	3.0u		BH		PD169eØ
59	2102	3	30G*					X2*					387u	40u§		1.0u	3.0u		BH		PD169eØ
60	2103	3	30G*					X2*					1.5m	40u§		1.0u	3.0u		BH		PD169eØ
61	2104	3	30G*					X2*					3.4m	40u§		1.0u	3.0u		BH		PD169dØ
62	2105	3	30G*					X2*					6.2m	40u§		1.0u	3.0u		BH		PD169dØ
63	2106	3	30G*					X2*					13m	40u§		1.0u	3.0u		BH		PD169dØ
64	2107	3	30G*					X2*					24m	40u§		1.0u	3.0u		BH		PD165aØ
65	2108	3	30G*					X2*					38m	40u§		1.0u	3.0u		BH		PD165aØ
66	2109	3	30G*					X2*					55m	40u§		1.0u	3.0u		BH		PD165aØ
67	2112	3	30G*					X2*					387u	40u§		1.0u	3.0u		BH		PD165aØ
68	2113	3	30G*					X2*					3.1m	40u§		1.0u	3.0u		BH		PD165aØ
69	2114	3	30G*					X2*					4.6m	40u§		1.0u	3.0u		BH		PD165aØ
70	2115	3	30G*					X2*					6.2m	40u§		1.0u	3.0u		BH		PD165aØ
71	2121	3	30G*					X2*					96m	40u§		1.0u	3.0u		BH		PD165aØ
72	KP20-01	3	30G*					26*	1.0M☑†		2.1u			200u§		2.1u	2.3u†		BH		PD160☑
73	KP20-02	3	30G*					26*	1.0M☑†		2.1u			200u§		2.1u	2.3u†		BH		PD160a☑
74	KP20-03	3	30G*					26*	1.0M☑†		2.1u			200u§		2.1u	2.3u†		BH		PD160b☑
75	OE4M	3	30G*					05*	7.0k☑				7.5u	250n		10u	11u†		CG		PD159Ø
76	PbSeITO-1-40A	3	30G*					8X♦	3.0k☑				1.2m	50u§		1.0u	6.0u		BS		PD147Ø
77	PbSeITO-1-40AS	3	30G*					8X♦	3.0k☑				1.2m	50u§		1.0u	6.0u		BS		PD147aØ
78	PbSeITO-1-520A	3	30G*					8X♦	3.0k☑				1.2m	50u§		1.0u	6.0u		BS		PD151Ø
79	PbSeITO-1-520AS	3	30G*					8X♦	3.0k☑				1.2m	50u§		1.0u	6.0u		BS		PD151aØ
80	PbSeITO-1-60A	3	30G*					8X♦	3.0k☑				1.2m	50u§		1.0u	6.0u		BS		PD148Ø
81	PbSeITO-1-60AS	3	30G*					8X♦	3.0k☑				1.2m	50u§		1.0u	6.0u		BS		PD148aØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR -CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	SPECTRAL RANGE HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	M T L	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1	PbSeITO-2-40A	3	30G*					8X♦	3.0k☑				4.8m	50u§		1.0u	6.0u		BS		PD147Ø
2	PbSeITO-2-40AS	3	30G*					8X♦	3.0k☑				4.8m	50u§		1.0u	6.0u		BS		PD147aØ
3	PbSeITO-2-520A	3	30G*					8X♦	3.0k☑				4.8m	50u§		1.0u	6.0u		BS		PD151Ø
4	PbSeITO-2-520AS	3	30G*					8X♦	3.0k☑				4.8m	50u§		1.0u	6.0u		BS		PD151aØ
5	PbSeITO-2-60A	3	30G*					8X♦	3.0k☑				4.8m	50u§		1.0u	6.0u		BS		PD148Ø
6	PbSeITO-2-60AS	3	30G*					8X♦	3.0k☑				4.8m	50u§		1.0u	6.0u		BS		PD148aØ
7	PbSeITO-.5-40A	3	30G*					8X♦	3.0k☑				304u	50u§		1.0u	6.0u		BS		PD147Ø
8	PbSeITO-.5-40AS	3	30G*					8X♦	3.0k☑				304u	50u§		1.0u	6.0u		BS		PD147aØ
9	PbSeITO-.5-520A	3	30G*					8X♦	3.0k☑				304u	50u§		1.0u	6.0u		BS		PD151Ø
10	PbSeITO-.5-520AS	3	30G*					8X♦	3.0k☑				304u	50u§		1.0u	6.0u		BS		PD151aØ
11	PbSeITO-.5-60A	3	30G*					8X♦	3.0k☑				304u	50u§		1.0u	6.0u		BS		PD148Ø
12	PbSeITO-.5-60AS	3	30G*					8X♦	3.0k☑				304u	50u§		1.0u	6.0u		BS		PD148aØ
13	ISC302A	3	33G*					KX♦	2.0 †		5.0u		1.9m	1.0u§		1.1u	5.5u	1.3p#	BG		PD276Ø
14	ISC363	3	33G*					KX♦	2.0 †		5.0u		6.1m	1.0u§		1.1u	5.5u	2.0p#	BG		PD163Ø
15	A100U	3	37G*					7X					2.8m			1.0u	3.5u		BF		PD316Ø
16#	61SV	3	40G*					56*	80k☑		2.0u		55m	100u		300n	3.5u	15p	BH		PD123Ø
17#	RPY31	3	40G*					55%	3.8k☑†		5.3u		24m	5.0u§		1.0u†	5.6u	10p	BH		PD122aØ
18#	RPY35	3	40G*					55%	3.8k☑†		5.3u		55m	5.0u§		1.0u†	5.6u	10p	BH		PD130Ø
19	1201	3	45G*					X2*					96u	120u§		1.0u	3.0u		BH		PD182☑
20	1202	3	45G*					X2*					387u	120u§		1.0u	3.0u		BH		PD182☑
21	1203	3	45G*					X2*					1.5u	120u§		1.0u	3.0u		BH		PD182☑
22	1204	3	45G*					X2*					3.4u	120u§		1.0u	3.0u		BH		PD182☑
23	1205	3	45G*					X2*					6.2m	120u§		1.0u	3.0u		BH		PD182☑
24	1206	3	45G*					X2*					13m	120u§		1.0u	3.0u		BH		PD182☑
25	1207	3	45G*					X2*					24m	120u§		1.0u	3.0u		BH		PD182☑
26	1208	3	45G*					X2*					38m	120u§		1.0u	3.0u		BH		PD182☑
27	1209	3	45G*					X2*					55m	120u§		1.0u	3.0u		BH		PD182☑
28	1210	3	45G*					X2*					99m	120u§		1.0u	3.0u		BH		PD182☑
29	1211	3	45G*					X2*					155m	120u§		1.0u	3.0u		BH		PD182☑
30	1212	3	45G*					X2*					387u	120u§		1.0u	3.0u		BH		PD182☑
31	1213	3	45G*					X2*					3.1m	120u§		1.0u	3.0u		BH		PD182☑
32	1214	3	45G*					X2*					4.6m	120u§		1.0u	3.0u		BH		PD182☑
33	1215	3	45G*					X2*					6.2m	120u§		1.0u	3.0u		BH		PD182☑
34	1221	3	45G*					X2*					968m	120u§		1.0u	3.0u		BH		PD182☑
35	2201	3	45G*					X2*					96u	120u§		1.0u	3.0u		BH		PD169eØ
36	2202	3	45G*					X2*					387u	120u§		1.0u	3.0u		BH		PD169eØ
37	2203	3	45G*					X2*					1.5m	120u§		1.0u	3.0u		BH		PD169eØ
38	2204	3	45G*					X2*					3.4m	120u§		1.0u	3.0u		BH		PD169dØ
39	2205	3	45G*					X2*					6.2m	120u§		1.0u	3.0u		BH		PD169dØ
40	2206	3	45G*					X2*					13m	120u§		1.0u	3.0u		BH		PD169dØ
41	2207	3	45G*					X2*					24m	120u§		1.0u	3.0u		BH		PD165aØ
42	2208	3	45G*					X2*					38m	120u§		1.0u	3.0u		BH		PD165aØ
43	2209	3	45G*					X2*					55m	120u§		1.0u	3.0u		BH		PD165aØ
44	2212	3	45G*					X2*					387u	120u§		1.0u	3.0u		BH		PD165aØ
45	2213	3	45G*					X2*					3.1m	120u§		1.0u	3.0u		BH		PD165aØ
46	2214	3	45G*					X2*					4.6m	120u§		1.0u	3.0u		BH		PD165aØ
47	2215	3	45G*					X2*					6.2m	120u§		1.0u	3.0u		BH		PD165aØ
48	2221	3	45G*					X2*					96m	120u§		1.0u	3.0u		BH		PD165aØ
49	ISC302B	3	49G*					KX♦	2.0 †		5.0u		1.9m	1.0u§		1.1u	5.5u	1.3p#	BG		PD276Ø
50	ISC363A	3	49G*					KX♦	2.0 †		5.0u		6.1m	1.0u§		1.1u	5.5u	2.0p#	BG		PD163Ø
51	59-5035	3	50G*					26*	4.0k☑				1.5m	1.0u§		1.0u	5.5u		BS		PD169dØ
52	59-5055	3	50G*					26*	2.0k☑				6.2m	1.0u§		1.0u	5.5u		BS		PD169dØ
53	59-5635	3	50G*		2.0	1.0	2.0	X6*	6.0k☑				1.5m	10u§		1.0u	5.5u		BS		PD162dØ
54	59-5637	3	50G*		2.0	1.0	2.0	X6*	6.0k☑				1.5m	10u§		1.0u	5.5u		BS		PD184bØ
55	59-5655	3	50G*		2.0	1.0	2.0	X6*	3.0k☑				6.2m	10u§		1.0u	5.5u		BS		PD162dØ
56	59-5657	3	50G*		2.0	1.0	2.0	X6*	3.0k☑				6.2m	10u§		1.0u	5.5u		BS		PD184bØ
57	59-5735	3	50G*		2.0	1.1	2.0	X6*	9.0k☑				1.5m	25u§		1.0u	5.5u		BS		PD162eØ
58	59-5737	3	50G*		2.0	1.1	2.0	X6*	9.0k☑				1.5m	25u§		1.0u	5.5u		BS		PD184aØ
59	59-5755	3	50G*		2.0	1.1	2.0	X6*	4.5k☑				6.2m	25u§		1.0u	5.5u		BS		PD162eØ
60	59-5757	3	50G*		2.0	1.1	2.0	X6*	4.5k☑				6.2m	25u§		1.0u	5.5u		BS		PD184aØ
61	59-5800	3	50G*		Δ			X2*						80u§		1.0u	5.5u		BS		PD185Ø
62	59-5802	3	50G*		$			X2*						50u§		1.0u	5.5u		BS		
63	59-5804	3	50G*		Ø			X2*						50u§		1.0u	5.5u		BS		
64	59-5840	3	50G*		Δ			X2*						80u§		1.0u	5.5u		BS		PD186Ø
65	59-5842	3	50G*		$			X2*						50u§		1.0u	5.5u		BS		
66	59-5844	3	50G*		Ø			X2*						50u§		1.0u	5.5u		BS		
67	InSb-1-40A	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD147Ø
68	InSb-1-40AS	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD147aØ
69	InSb-1-60A	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD148Ø
70	InSb-1-60AS	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD148aØ
71	InSb-1-520A	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD151Ø
72	InSb-1-520AS	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD151aØ
73	InSb-1-40742	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD152Ø
74	InSb-1-44782	3	50G*					KX♦	1.6 †		5.5u		1.2m	1.0u§		2.0u	5.5u		BG		PD153Ø
75	InSb-2-40A	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD147Ø
76	InSb-2-40AS	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD147aØ
77	InSb-2-60A	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD148Ø
78	InSb-2-60AS	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD148aØ
79	InSb-2-520A	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD151Ø
80	InSb-2-520AS	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD151aØ
81	InSb-2-40742	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD152Ø
82	InSb-2-44782	3	50G*					KX♦	1.6 †		5.5u		4.8m	1.0u§		2.0u	5.5u		BG		PD153Ø
83#	RPY52	3	50G*					55%	45k☑		5.3u		4.6m	2.5u§		1.5u†	5.6u	3.3p	BH		PD130Ø
84	SD8721-1	3	50G*					KX♦					1.2m		40n#	5.0u$	5.3u$		BG		PD110Ø
85	SD8722-1	3	50G*					KX♦					300u		40n#	5.0u$	5.3u$		BG		PD110Ø
86	SD8723-1	3	50G*					KX♦					100u		40n#	5.0u$	5.3u$		BG		PD110Ø
87	SD8727-1	3	50G*					KX♦					1.2m		40n#	5.0u$	5.3u$		BG		PD111Ø
88	SD8728-1	3	50G*					KX♦					300u		40n#	5.0u$	5.3u$		BG		PD111Ø
89	SD8729-1	3	50G*					KX♦					125u		40n#	5.0u$	5.3u$		BG		PD111Ø
90	SD8731-1	3	50G*					KX♦					1.2m		40n#	5.0u$	5.3u$		BG		PD112Ø
91	SD8732-1	3	50G*					KX♦					300u		40n#	5.0u$	5.3u$		BG		PD112Ø
92	SD8733-1	3	50G*					KX♦					125u		40n#	5.0u$	5.3u$		BG		PD112Ø
93	6800	3	55G*					X2*	2.4 †				1.5m	200n§		1.0u	5.5u		BG		PD185Ø
94	6802	3	55G*		$			x2*	2.4 †				1.5m	200n§		1.0u	5.5u		BG		PD185Ø
95	6804	3	55G*		Ø			x2*	2.4 †				1.5m	200n§		1.0u	5.5u		BG		PD185Ø
96	6840	3	55G*					X2*	2.4 †				9.6m	200n§		1.0u	5.5u		BG		PD186Ø
97	6842	3	55G*		$			x2*	2.4 †				1.5m	200n§		1.0u	5.5u		BG		PD185Ø
98	6844	3	55G*		Ø			x2*	2.4 †				1.5m	200n§		1.0u	5.5u		BG		PD186Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR -CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	MT L	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1#	ORP13	3	55G*					57*	35k☑		5.3u		4.6m	5.0u		1.5u	5.6u	3.2p	BG		PD122Ø
2#	62SV	3	60G*		20m				2.0k☑				55m	175u		300n	3.5u		BH		PD123Ø
3	SA-FP1.1PbS3	3	60G*										40m	50u§		1.0u	3.4u		BH		PD342
4	SA-FP2.2PbS3	3	60G*										80m	50u§		1.0u	3.4u		BH		PD342
5	SA-FP3.3PbS3	3	60G*										120m	50u§		1.0u	3.4u		BH		PD342
6	SA-FP4.4PbS3	3	60G*										160m	50u§		1.0u	3.4u		BH		PD342
7	SA-FP5.5PbS3	3	60G*										200m	50u§		1.0u	3.4u		BH		PD342
8	SA-FP6.6PbS3	3	60G*										240m	50u§		1.0u	3.4u		BH		PD342
9	SA-FP8.8PbS3	3	60G*										320m	50u§		1.0u	3.4u		BH		PD342
10	SA-FP10.10PbS3	3	60G*										400m	50u§		1.0u	3.4u		BH		PD342
11	ISC302C	3	66G*					KX♦	2.0 †		5.0u		1.9m	1.0u§		1.1u	5.5u	1.3p#	BG		PD276Ø
12	ISC363B	3	66G*					KX♦	2.0 †		5.0u		6.1m	1.0u§		1.1u	5.5u	2.0p#	BG		PD163Ø
13	KQ20-01	3	75G*					26*	1.0M☑†		2.0u			300u§		2.0u	2.2u†		BH		PD160d☑
14	KQ20-02	3	75G*					26*	1.0M☑†		2.0u			300u§		2.0u	2.2u†		BH		PD160e☑
15	KQ20-03	3	75G*					26*	1.0M☑†		2.0u			300u§		2.0u	2.2u†		BH		PD160f☑
16	OTC11-81	3	75G*		2.0 †			26*	6.0k☑		4.5u		1.5m	10u§		1.0u	5.0u		BS	♦	PD214Ø
17	OTC11-81T	3	75G*		2.0 †			26*	6.0k☑		4.5u		1.5m	10u§		1.0u	5.0u		BS	♦	PD214Ø
18	OTC11-81TC	3	75G*		2.0 †			26*	6.0k☑		4.5u		1.5m	10u§		1.0u	5.0u		BS	♦	PD214Ø
19	OTC11-82	3	75G*		2.0 †			26*	3.0k☑		4.5u		6.2m	10u§		1.0u	5.0u		BS	♦	PD214Ø
20	OTC11-82T	3	75G*		2.0 †			26*	3.0k☑		4.5u		6.2m	10u§		1.0u	5.0u		BS	♦	PD214Ø
21	OTC11-82TC	3	75G*		2.0 †			26*	3.0k☑		4.5u		6.2m	10u§		1.0u	5.0u		BS	♦	PD214Ø
22	OTC11-83	3	75G*		2.0 †			26*	2.0k☑		4.5u		13m	10u§		1.0u	5.0u		BS	♦	PD214Ø
23	OTC11-83T	3	75G*		2.0 †			26*	2.0k☑		4.5u		13m	10u§		1.0u	5.0u		BS	♦	PD214Ø
24	OTC11-83TC	3	75G*		2.0 †			26*	2.0k☑		4.5u		13m	10u§		1.0u	5.0u		BS	♦	PD214Ø
25	OTC11-84	3	75G*		2.0 †			26*	1.5k☑		4.5u		24m	10u§		1.0u	5.0u		BS	♦	PD214Ø
26	OTC11-84T	3	75G*		2.0 †			26*	1.5k☑		4.5u		24m	10u§		1.0u	5.0u		BS	♦	PD214Ø
27	OTC11-84TC	3	75G*		2.0 †			26*	1.5k☑		4.5u		24m	10u§		1.0u	5.0u		BS	♦	PD214Ø
28	OTC11-85	3	75G*		2.0 †			26*	1.2k☑		4.5u		38m	10u§		1.0u	5.0u		BS	♦	PD214Ø
29	OTC11-85T	3	75G*		2.0 †			26*	1.2k☑		4.5u		38m	10u§		1.0u	5.0u		BS	♦	PD214Ø
30	OTC11-85TC	3	75G*		2.0 †			26*	1.2k☑		4.5u		38m	10u§		1.0u	5.0u		BS	♦	PD214Ø
31	1301	3	80G*					X2*					96u	200u§		1.0u	3.0u		BH		PD182☑
32	1302	3	80G*					X2*					387u	200u§		1.0u	3.0u		BH		PD182☑
33	1303	3	80G*					X2*					1.5m	200u§		1.0u	3.0u		BH		PD182☑
34	1304	3	80G*					X2*					3.4m	200u§		1.0u	3.0u		BH		PD182☑
35	1305	3	80G*					X2*					6.2m	200u§		1.0u	3.0u		BH		PD182☑
36	1306	3	80G*					X2*					13m	200u§		1.0u	3.0u		BH		PD182☑
37	1307	3	80G*					X2*					24m	200u§		1.0u	3.0u		BH		PD182☑
38	1308	3	80G*					X2*					38m	200u§		1.0u	3.0u		BH		PD182☑
39	1309	3	80G*					X2*					55m	200u§		1.0u	3.0u		BH		PD182☑
40	1310	3	80G*					X2*					99m	200u§		1.0u	3.0u		BH		PD182☑
41	1311	3	80G*					X2*					155m	200u§		1.0u	3.0u		BH		PD182☑
42	1312	3	80G*					X2*					387u	200u§		1.0u	3.0u		BH		PD182☑
43	1313	3	80G*					X2*					3.1m	200u§		1.0u	3.0u		BH		PD182☑
44	1314	3	80G*					X2*					4.6m	200u§		1.0u	3.0u		BH		PD182☑
45	1315	3	80G*					X2*					6.2m	200u§		1.0u	3.0u		BH		PD182☑
46	1321	3	80G*					X2*					968u	200u§		1.0u	3.0u		BH		PD182☑
47	2301	3	80G*					X2*					96u	200u§		1.0u	3.0u		BH		PD169eØ
48	2302	3	80G*					X2*					387u	200u§		1.0u	3.0u		BH		PD169eØ
49	2303	3	80G*					X2*					1.5m	200u§		1.0u	3.0u		BH		PD169eØ
50	2304	3	80G*					X2*					3.4m	200u§		1.0u	3.0u		BH		PD169dØ
51	2305	3	80G*					X2*					6.2m	200u§		1.0u	3.0u		BH		PD169dØ
52	2306	3	80G*					X2*					13m	200u§		1.0u	3.0u		BH		PD169dØ
53	2307	3	80G*					X2*					24m	200u§		1.0u	3.0u		BH		PD165aØ
54	2308	3	80G*					X2*					38m	200u§		1.0u	3.0u		BH		PD165aØ
55	2309	3	80G*					X2*					55m	200u§		1.0u	3.0u		BH		PD165aØ
56	2312	3	80G*					X2*					387u	200u§		1.0u	3.0u		BH		PD165aØ
57	2313	3	80G*					X2*					3.1m	200u§		1.0u	3.0u		BH		PD165aØ
58	2314	3	80G*					X2*					4.6m	200u§		1.0u	3.0u		BH		PD165aØ
59	2315	3	80G*					X2*					6.2m	200u§		1.0u	3.0u		BH		PD165aØ
60	2321	3	80G*					X2*					96m	200u§		1.0u	3.0u		BH		PD169dØ
61	PbSATO-1-10A	3	80G*					X2♦		K	2.4u		1.2m	500u§		1.0u	3.5u		BH		PD147Ø
62	PbSATO-2-10A	3	80G*					X2♦		K	2.4u		4.8m	500u§		1.0u	3.5u		BH		PD147Ø
63	PbSATO-.5-10A	3	80G*					X2♦		K	2.4u		304u	500u§		1.0u	3.5u		BH		PD147Ø
64	SA-FP1.1PbS1A	3	80G*										40m	400u§		1.0u	3.4u		BH		PD342
65	SA-FP1.1PbS1B	3	80G*										40m	400u§		1.0u	3.4u		BH		PD342
66	SA-FP1.1PbS2	3	80G*										40m	400u§		1.0u	3.4u		BH		PD342
67	SA-FP2.2PbS1A	3	80G*										80m	400u§		1.0u	3.4u		BH		PD342
68	SA-FP2.2PbS2	3	80G*										80m	400u§		1.0u	3.4u		BH		PD342
69	SA-FP3.3PbS1A	3	80G*										120m	400u§		1.0u	3.4u		BH		PD342
70	SA-FP3.3PbS2	3	80G*										120m	400u§		1.0u	3.4u		BH		PD342
71	SA-FP4.4PbS1A	3	80G*										160m	400u§		1.0u	3.4u		BH		PD342
72	SA-FP4.4PbS2	3	80G*										160m	400u§		1.0u	3.4u		BH		PD342
73	SA-FP5.5PbS1A	3	80G*										200m	400u§		1.0u	3.4u		BH		PD342
74	SA-FP5.5PbS1B	3	80G*										200m	400u§		1.0u	3.4u		BH		PD342
75	SA-FP5.5PbS2	3	80G*										200m	400u§		1.0u	3.4u		BH		PD342
76	SA-FP6.6PbS1A	3	80G*										240m	400u§		1.0u	3.4u		BH		PD342
77	SA-FP6.6PbS2	3	80G*										240m	400u§		1.0u	3.4u		BH		PD342
78	SA-FP8.8PbS1A	3	80G*										320m	400u§		1.0u	3.4u		BH		PD342
79	SA-FP8.8PbS2	3	80G*										320m	400u§		1.0u	3.4u		BH		PD342
80	SA-FP10.10PbS1A	3	80G*										400m	400u§		1.0u	3.4u		BH		PD342
81	SA-FP10.10PbS2	3	80G*										400m	400u§		1.0u	3.4u		BH		PD342
82	SA-FP11PbS1B	3	80G*										400m	400u§		1.0u	3.4u		BH		PD342
83	SD8721-2	3	80G					KX♦					1.2m		40n#	5.0u$	5.3u$		BG		PD110Ø
84	SD8722-2	3	80G*					KX♦					300u		40n#	5.0u$	5.3u$		BG		PD110Ø
85	SD8723-2	3	80G*					KX♦					125u		40n#	5.0u$	5.3u$		BG		PD110Ø
86	SD8731-2	3	80G*					KX♦					1.2m		40n#	5.0u$	5.3u$		BG		PD112Ø
87	SD8732-2	3	80G*					KX♦					300u		40n#	5.0u$	5.3u$		BG		PD112Ø
88	SD8733-2	3	80G*					KX♦					125u		40n#	5.0u$	5.3u$		BG		PD112Ø
89	ISC302D	3	82G*					KX♦	2.0 †		5.0u		1.9m	1.0u§		1.1u	5.5u	1.3p#	BG		PD276Ø
90	ISC363C	3	82G*					KX♦	2.0 †		5.0u		6.1m	1.0u§		1.1u	5.5u	2.0p#	BG		PD163Ø
91	ISC386	3	82G*					KX♦	2.0 †		5.0u		.44m	1.0u§		1.1u	5.5u	0.5p#	BG		PD277Ø
92	KO20-01	3	90G*					26*	1.0M☑†		2.0u		1.5m	350u§		2.0u	2.2u†		BH		PD160☑
93	KO20-02	3	90G*					26*	1.0M☑†		2.0u		6.2m	350u§		2.0u	2.2u†		BH		PD160a☑
94	KO20-03	3	90G*					26*	1.0M☑†		2.0u		13m	350u§		2.0u	2.2u†		BH		PD160b☑
95	KO25-51	3	90G*			125		26*	200k☑		2.0u		1.5m	350u§		2.0u	2.2u†		BH		PD161a☑
96	KO25-52	3	90G*			200		26*	100k☑		2.0u		6.2m	350u§		2.0u	2.2u†		BH		PD161a☑
97	KO25-53	3	90G*			250		26*	60k☑		2.0u		13m	350u§		2.0u	2.2u†		BH		PD161a☑

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR -CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	MT L	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1	KO25-181	3	90G*			125		26*	200k☑		2.0u		1.5m	350u§		2.0u	2.2u†		BH		PD161Ø
2#	RPY51	3	90G*					55%	45k☑		5.3u		387u	2.5u§		1.5u†	5.6u	2.5p	BH		PD130Ø
3	ISC302E	3	99G*					KX♦	2.0 †		5.0u		1.9m	1.0u§		1.1u	5.5u	1.3p#	BG		PD276Ø
4	ISC363D	3	99G*					KX♦	2.0 †		5.0u		6.1m	1.0u§		1.1u	5.5u	2.0p#	BG		PD163Ø
5	ISC386A	3	99G*					KX♦	2.0 †		5.0u		.44m	1.0u§		1.1u	5.5u	0.5p#	BG		PD277Ø
6	603	3	100G*					KX					1.2m		12n	9.0u	18u		CH		PD314
7	1416	3	100G*					X2*					3.4u	500u§		1.0u	3.0u		BH		PD182☑
8	1417	3	100G*					X2*					24m	500u§		1.0u	3.0u		BH		PD182☑
9	1517	3	100G*					X2*					24m	500u§		1.0u	3.0u		BH		PD182☑
10	1518	3	100G*					X2*					387u	500u§		1.0u	3.0u		BH		PD182☑
11	2416	3	100G*					X2*					3.4m	1.0m§		1.0u	3.0u		BH		PD165aØ
12	2417	3	100G*					X2*					24m	1.0m§		1.0u	3.0u		BH		PD165aØ
13	2517	3	100G*					X2*					24m	1.0m§		1.0u	3.0u		BH		PD165aØ
14	2518	3	100G*					X2*					387u	1.0m§		1.0u	3.0u		BH		PD165aØ
15	2635	3	100G*		2.0	1.0	2.0	26*	400k☑				1.5m	500u§		1.0u	3.2u		BH		PD162dØ
16	2637	3	100G*		2.0	1.0	2.0	26*	400k☑				1.5m	500u§		1.0u	3.2u		BH		PD184Ø
17	2655	3	100G*		2.0	1.0	2.0	26*	200k☑				6.2m	500u§		1.0u	3.2u		BH		PD162dØ
18	2657	3	100G*		2.0	1.0	2.0	26*	200k☑				6.2m	500u§		1.0u	3.2u		BH		PD184Ø
19	2665	3	100G*		2.0	1.0	2.0	26*	80k				13m	500u§		1.0u	3.2u		BH		PD162fØ
20	2667	3	100G*		2.0	1.0	2.0	26*	80k				13m	500u§		1.0u	3.2u		BH		PD184bØ
21	OE20-01	3	100G*			125		26*	200k☑		2.2u		1.5m	350u§		2.2u	2.4u†		BH		PD160☑
22	OE20-02	3	100G*			200		26*	100k☑		2.2u		6.2m	350u§		2.2u	2.4u†		BH		PD160a☑
23	OE20-03	3	100G*			250		26*	60k☑		2.2u		13m	350u§		2.2u	2.4u†		BH		PD160b☑
24	OE25-51	3	100G*			125		26*	200k☑		2.2u		1.5m	350u		2.2u	2.4u		BH		PD161a☑
25	OE25-52	3	100G*			200		26*	100k☑		2.2u		6.2m	350u		2.2u	2.4u		BH		PD161a☑
26	OE25-53	3	100G*			250		26*	60k☑		2.2u		13m	350u		2.2u	2.4u		BH		PD161a☑
27	OE25-181	3	100G*			125		26*	200k☑		2.2u		1.5m	350u		2.2u	2.4u		BH		PD161☑
28	PbSLTO-1-40A	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD147Ø
29	PbSLTO-1-40AS	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD147aØ
30	PbSLTO-1-40742	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD152Ø
31	PbSLTO-1-44782	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD153Ø
32	PbSLTO-1-520A	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD151Ø
33	PbSLTO-1-520AS	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD151aØ
34	PbSLTO-1-60A	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD148Ø
35	PbSLTO-1-60AS	3	100G*					KX♦	300k☑				1.2m	3.0m§		1.0u	4.5u		BH		PD148aØ
36	PbSLTO-2-40A	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD147Ø
37	PbSLTO-2-40AS	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD147aØ
38	PbSLTO-2-40742	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD152Ø
39	PbSLTO-2-44782	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD153Ø
40	PbSLTO-2-520A	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD151Ø
41	PbSLTO-2-520AS	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD151aØ
42	PbSLTO-2-60A	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD148Ø
43	PbSLTO-2-60AS	3	100G*					KX♦					4.8m	3.0m§		1.0u	4.5u		BH		PD148aØ
44	PbSLTO-.5-40A	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD147Ø
45	PbSLTO-.5-40AS	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD147aØ
46	PbSLTO-.5-40742	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD152Ø
47	PbSLTO-.5-44782	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD153Ø
48	PbSLTO-.5-520A	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD151Ø
49	PbSLTO-.5-520AS	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD151aØ
50	PbSLTO-.5-60A	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD148Ø
51	PbSLTO-.5-60AS	3	100G*					KX♦					304u	3.0m§		1.0u	4.5u		BH		PD148aØ
52	SD8724-3	3	100G*					KX♦					1.2m		40n#	5.0u$	5.3u$		BG		PD110Ø
53	SD8725-3	3	100G*					KX♦					300u		40n#	5.0u$	5.3u$		BG		PD110Ø
54	SD8726-3	3	100G*					KX♦					125u		40n#	5.0u$	5.3u$		BG		PD110Ø
55	SD8731-3	3	100G*					KX♦					1.2m		40n#	5.0u$	5.3u$		BG		PD112Ø
56	SD8732-3	3	100G*					KX♦					300u		40n#	5.0u$	5.3u$		BG		PD112Ø
57	SD8733-3	3	100G*					KX♦					125u		40n#	5.0u$	5.3u$		BG		PD112Ø
58	ISC302F	3	111G					KX♦	2.0 †		5.0u		1.9m	1.0u§		1.1u	5.5u	1.3p#	BG		PD276Ø
59	ISC363E	3	111G*					KX♦	2.0 †		5.0u		6.1m	1.0u§		1.1u	5.5u	2.0p#	BG		PD163Ø
60	SD8720	3	120G*					KX♦	1.0		5.0u		155m		40n#	5.0u$	5.3u$		BG		
61	5735	3	130G*		2.0	1.1	2.0	26*	9.0k☑				1.5m	25u§		1.0u	5.0u		BS		PD162eØ
62	5737	3	130G*		2.0	1.1	2.0	26*	9.0k☑				1.5m	25u§		1.0u	5.0u		BS		PD184aØ
63	5755	3	130G*		2.0	1.1	2.0	26*	4.5k☑				6.2m	25u§		1.0u	5.0u		BS		PD162eØ
64	5757	3	130G*		2.0	1.1	2.0	26*	4.5k☑				6.2m	25u§		1.0u	5.0u		BS		PD184aØ
65	5765	3	130G*		2.0	1.1	2.0	26*	3.0k☑				13m	25u§		1.0u	5.0u		BS		PD162eØ
66	5767	3	130G*		2.0	1.1	2.0	26*	3.0k☑				13m	25u§		1.0u	5.0u		BS		PD184aØ
67	602	3	150G*					KX					1.2m		12n	7.5u	15u		CH		PD314
68	2735	3	150G*		2.2	1.1	2.0	26*	600k☑				1.5m	700u§		1.0u	3.4u		BH		PD162dØ
69	2737	3	150G*		2.2	1.1	2.0	26*	600k☑				1.5m	700u§		1.0u	3.4u		BH		PD184Ø
70	2755	3	150G*		2.2	1.1	2.0	26*	300k☑				6.2m	700u§		1.0u	3.4u		BH		PD162dØ
71	2757	3	150G*		2.2	1.1	2.0	26*	300k☑				6.2m	700u§		1.0u	3.4u		BH		PD184Ø
72	2765	3	150G*		2.2	1.1	2.0	36*	120k				13m	700u§		1.0u	3.4u		BH		PD162fØ
73	2767	3	150G*		2.2	1.1	2.0	36*	120k				13m	700u§		1.0u	3.4u		BH		PD184bØ
74	2800	3	150G*	Δ				X2*					1.5m	3.0m§		1.0u	4.5u		BH		PD185Ø
75	2840	3	150G*	Δ				X2*					1.5m	5.0u§		1.0u	4.5u		BH		PD186Ø
76	OTC21-51	3	150G*			125		26*	400k☑		2.3u		1.3m	1.0m		2.3u	2.5u†		BH		PD162Ø
77	OTC21-51T	3	150G*			125		26*	400k☑		2.3u		1.3m	1.0m		2.3u	2.5u†		BH		PD162aØ
78	OTC21-51TC	3	150G*			125		26*	400k☑		2.3u		1.3m	1.0m		2.3u	2.5u†		BH		PD162aØ
79	OTC21-52	3	150G*			200		26*	200k☑		2.3u		6.2m	1.0m		2.3u	2.5u†		BH		PD162Ø
80	OTC21-52T	3	150G*			200		26*	200k☑		2.3u		6.2m	1.0m		2.3u	2.5u†		BH		PD162aØ
81	OTC21-52TC	3	150G*			200		26*	200k☑		2.3u		6.2m	1.0m		2.3u	2.5u†		BH		PD162aØ
82	OTC21-53	3	150G*			250		26*	150k☑		2.3u		13m	1.0m		2.3u	2.5u†		BH		PD162Ø
83	OTC21-53T	3	150G*			250		26*	150k☑		2.3u		13m	1.0m		2.3u	2.5u†		BH		PD162aØ
84	OTC21-53TC	3	150G*			250		26*	150k☑		2.3u		13m	1.0m		2.3u	2.5u†		BH		PD162aØ
85	OTC21-81	3	150G*		2.0 †			26*	400k☑		2.5u		1.5m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
86	OTC21-81T	3	150G*		2.0 †			26*	400k☑		2.5u		1.5m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
87	OTC21-81TC	3	150G*		2.0 †			26*	400k☑		2.5u		1.5m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
88	OTC21-82	3	150G*		2.0 †			26*	200k☑		2.5u		6.2m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
89	OTC21-82T	3	150G*		2.0 †			26*	200k☑		2.5u		6.2m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
90	OTC21-82TC	3	150G*		2.0 †			26*	200k☑		2.5u		6.2m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR -CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	MT L	LEAD CODE	DRAWING Ø-RND. ☐-RECT Δ-STRIP *-CHIP
1	OTC21-83	3	150G*		2.0 †			26*	150k☐		2.5u		13m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
2	OTC21-83T	3	150G*		2.0 †			26*	150k☐		2.5u		13m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
3	OTC21-83TC	3	150G*		2.0 †			26*	150k☐		2.5u		13m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
4	OTC21-84	3	150G*		2.0 †			26*	100k☐		2.5u		24m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
5	OTC21-84T	3	150G*		2.0 †			26*	100k☐		2.5u		24m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
6	OTC21-84TC	3	150G*		2.0 †			26*	100k☐		2.5u		24m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
7	OTC21-85	3	150G*		2.0 †			26*	80k☐		2.5u		38m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
8	OTC21-85T	3	150G*		2.0 †			26*	80k☐		2.5u		38m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
9	OTC21-85TC	3	150G*		2.0 †			26*	80k☐		2.5u		38m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
10	601	3	200G*					KX					1.2m		12n	6.5u	13u		CH		PD314
11	SD5622	3	200G					7X♦					1.2m		15n#	3.2u$	3.4u$		BF		PD95Ø
12	SD8621	3	200G*					7X♦					1.2m		15n#	3.2u$	3.4u$		BF		PD110Ø
13	OTC22-51	3	250G*			125		26*	600k☐		2.4u		1.3m	1.0m		2.4u	2.6u†		BH		PD162bØ
14	OTC22-51T	3	250G*			125		26*	600k☐		2.4u		1.3m	1.0m		2.4u	2.6u†		BH		PD162cØ
15	OTC22-51TC	3	250G*			125		26*	600k☐		2.4u		1.3m	1.0m		2.4u	2.6u†		BH		PD162cØ
16	OTC22-52	3	250G*			200		26*	300k☐		2.4u		6.2m	1.0m		2.4u	2.6u†		BH		PD162bØ
17	OTC22-52T	3	250G*			200		26*	300k☐		2.4u		6.2m	1.0m		2.4u	2.6u†		BH		PD162cØ
18	OTC22-52TC	3	250G*			200		26*	300k☐		2.4u		6.2m	1.0m		2.4u	2.6u†		BH		PD162cØ
19	OTC22-53	3	250G*			250		26*	200k☐		2.4u		13m	1.0m		2.4u	2.6u†		BH		PD162bØ
20	OTC22-53T	3	250G*			250		26*	200k☐		2.4u		13m	1.0m		2.4u	2.6u†		BH		PD162cØ
21	OTC22-53TC	3	250G*			250		26*	200k☐		2.4u		13m	1.0m		2.4u	2.6u†		BH		PD162cØ
22	OTC22-84	3	250G*		2.0 †			26*	150k☐		2.6u		24m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
23	OTC22-84T	3	250G*		2.0 †			26*	150k☐		2.6u		24m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
24	OTC22-84TC	3	250G*		2.0 †			26*	150k☐		2.6u		24m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
25	OTC22-85	3	250G*		2.0 †			26*	120k☐		2.6u		38m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
26	OTC22-85T	3	250G*		2.0 †			26*	120k☐		2.6u		38m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
27	OTC22-85TC	3	250G*		2.0 †			26*	120k☐		2.6u		38m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
28	2802	3	300G*		$			x2*						3.0m§		1.0u	4.5u		BH		PD185Ø
29	2804	3	300G*		Ø			x2*						3.0m§		1.0u	4.5u		BH		PD185Ø
30	2805	3	300G*		Ø			X2*					3.0m§			1.0u	4.5u		BH		PD152Ø
31	2842	3	300G*		$			x2*						3.0m§		1.0u	4.5u		BH		PD186Ø
32	2844	3	300G*		Ø			x2*						3.0m§		1.0u	4.5u		BH		PD186Ø
33	2845	3	300G*		Ø			X2*					3.0m§			1.0u	4.5u		BH		PD153Ø
34	OTC22-81	3	300G*		3.0			26*	600k☐		2.6u		1.5m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
35	OTC22-81T	3	300G*		3.0			26*	600k☐		2.6u		1.5m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
36	OTC22-81TC	3	300G*		3.0			26*	600k☐		2.6u		1.5m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
37	OTC22-82	3	300G*		3.0			26*	300k☐		2.6u		6.2m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
38	OTC22-82T	3	300G*		3.0			26*	300k☐		2.6u		6.2m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
39	OTC22-82TC	3	300G*		3.0			26*	300k☐		2.6u		6.2m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
40	OTC22-83	3	300G*		3.0			26*	200k☐		2.6u		13m	1.0m§		1.0u	2.5u		BH	♦	PD214Ø
41	OTC22-83T	3	300G*		3.0			26*	200k☐		2.6u		13m	1.0m§		1.0u	3.5u		BH	♦	PD214Ø
42	OTC22-83TC	3	300G*		3.0			26*	200k☐		2.6u		13m	1.0m§		2.5u	3.5u		BH	♦	PD214Ø
43	OTC22S-81T	3	300G*		4.0			X6*	750k☐		2.7u		1.5m			1.0u	3.5u		BH		PD214Ø
44	OTC22S-81TC	3	300G*		4.0			X6*	750k☐		2.7u		1.5m			1.0u	3.5u		BH		PD214Ø
45	OTC22S-82T	3	300G*		4.0			X6*	370k☐		2.7u		6.2m			1.0u	3.5u		BH		PD214Ø
46	OTC22S-82TC	3	300G*		4.0			X6*	370k☐		2.7u		6.2m			1.0u	3.5u		BH		PD214Ø
47	OTC22S-83T	3	300G*		4.0			X6*	250k☐		2.7u		13m			1.0u	3.5u		BH		PD214Ø
48	OTC22S-83TC	3	300G*		4.0			X6*	250k☐		2.7u		13m			1.0u	3.5u		BH		PD214Ø
49	OTC22S-84T	3	300G*		4.0			X6*	190k☐		2.7u		24m			1.0u	3.5u		BH		PD214Ø
50	OTC22S-84TC	3	300G*		4.0			X6*	190k☐		2.7u		24m			1.0u	3.5u		BH		PD214Ø
51	OTC22S-85T	3	300G*		4.0			X6*	150k☐		2.7u		38m			1.0u	3.5u		BH		PD214Ø
52	OTC22S-85TC	3	300G*		4.0			X6*	150k☐		2.7u		38m			1.0u	3.5u		BH		PD214Ø
53	InAs-1-40742	3	400G*					KX♦	1.0 †		3.0u		1.2m	1.0u§		1.0u	3.0u		BF		PD152Ø
54	InAs-1-44782	3	400G*					KX♦	1.0 †		3.0u		1.2m	1.0u§		1.0u	3.0u		BF		PD153Ø
55	InAs-2-40742	3	400G*					KX♦	1.0 †		3.0u		4.8m	1.0u§		1.0u	3.0u		BF		PD152Ø
56	InAs-2-44782	3	400G*					KX♦	1.0 †		3.0u		4.8m	1.0u§		1.0u	3.0u		BF		PD153Ø
57	InAs-.5-40742	3	400G*					KX♦	1.0 †		3.0u		304u	1.0u§		1.0u	3.0u		BF		PD152Ø
58	InAs-.5-44782	3	400G*					KX♦	1.0 †		3.0u		304u	1.0u§		1.0u	3.0u		BF		PD153Ø
59	PbSITO-1-40A	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD147Ø
60	PbSITO-1-40AS	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD147aØ
61	PbSITO-1-40742	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD152Ø
62	PbSITO-1-44782	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD153Ø
63	PbSITO-1-520A	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD151Ø
64	PbSITO-1-520AS	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD151aØ
65	PbSITO-1-60A	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD148Ø
66	PbSITO-1-60AS	3	400G*					8X♦	5.0M☐				1.2m	5.0m§		1.0u	4.0u		BH		PD148aØ
67	PbSITO-2-40A	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD147Ø
68	PbSITO-2-40AS	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD147aØ
69	PbSITO-2-40742	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD152Ø
70	PbSITO-2-44782	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD153Ø
71	PbSITO-2-520A	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD151Ø
72	PbSITO-2-520AS	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD151aØ
73	PbSITO-2-60A	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD148Ø
74	PbSITO-2-60AS	3	400G*					8X♦					4.8m	5.0m§		1.0u	4.0u		BH		PD148aØ
75	PbSITO-.5-40A	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD147Ø
76	PbSITO-.5-40AS	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD147aØ
77	PbSITO-.5-40742	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD152Ø
78	PbSITO-.5-44782	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD153Ø
79	PbSITO-.5-520A	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD151Ø
80	PbSITO-.5-520AS	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD151aØ
81	PbSITO-.5-60A	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD148Ø
82	PbSITO-.5-60AS	3	400G*					8X♦					304u§	5.0m§		1.0u	4.0u		BH		PD148aØ
83	SD5623	3	400G*					KX♦					1.2m		15n#	3.1u$	3.2u$		BF		PD95Ø
84	SD8622	3	400G*					KX♦					1.2m		15n#	3.1u$	3.2u$		BF		PD110Ø
85	SA-TE1-1.1	3	500G*						1.0m☐		2.2u		39m			1.0u	3.5u		BH	♦	PD343
86	SA-TE1-2.2	3	500G*						500k☐		2.2u		79m			1.0u	3.5u		BH	♦	PD343
87	SA-TE1-3.3	3	500G*						200k☐		2.2u		118m			1.0u	3.5u		BH	♦	PD343
88	9001	3	10T*	0.0				X2*	470m		900u	0.0	7.9m		150p	350n	1.1u		AD		PD189Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOURCE λ (m)	SOURCE VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	SPECTRAL RANGE HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	M T L	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1	9002	3	10T*	0.0				X2*	470m	900u	0.0	7.9m		150p	350n	1.1u		AD		PD189Ø
2	8045	4							500m	900n		15m	18u#				17f			
3	8245	4							70m	200n		15m	18u#		200n	1.1u	120f			
4	C30849	4							600m	900n		300u	1.0u	10p	400n†	1.1u†	35f	AD	B§	PD8dØ
5	C30850	4							600m	900n		1.2m	1.0u	20p	400n†	1.1u†	50f	AD	B§	PD8dØ
6	C30851	4							600m	900n		7.7m	1.0u#	80p	400n†	1.1u†	80f	AD	F☑	PD109Ø
7	C30852	4							600m	900n		31m	1.0u#	250p	400n†	1.1u†	130f	AD	K§	PD108Ø
8	C30853	4							600m	900n		77m	1.0u#	500p	400n†	1.1u†	170f	AD	K§	PD108Ø
9	C30854	4							600m	900n		155m	1.0u#	1.0n	400n†	1.1u†	250f	AD		PD105Ø
10	P151	4			75m	300		X7*					2.0 *					BB		PD253Ø
11	PIN5D/UVF	4							100m	330n				100p			20p			PDØ
12	PIN10DB/541	4							190m	450n			500n	24n			47p			PDØ
13	PIN125	4							350m	850n			1.0u	30p			10p			PDØ
14	UVO40B	4							650m	950n		1.2m		25p	200n	1.1u	30f	AD	A	PD169bØ
15	UV250B	4							650m	950n		32m		600p	200n	1.1u	30f	AD	A	PD169hØ
16	PV100A	4	15f						470m	950n		7.9m	25n#	150p	350n	1.1u	32f	AD	A	PD169Ø
17	UV100B	4	15f	10n	250m	30			650m	950n	0.0	7.9m	25n#	150p	200n	1.1u	25f	AD	A	PD169
18	UV215B	4	20f	10n	500m	30			650m	950n	0.0	36m	30n#	700p	200n	1.1u	33f	AD	A	PD169a
19	PV215	4	20f	10m	500m	30			470m	950n	0.0	36m	30n#	700p	350n	1.1u	43f	AD	A	PD169aØ
20	PV444A	4	40f						470m	950n		155m	45n#	2.8n	350n	1.1u	90f	AD	A	PD169cØ
21	UV444B	4	40f	10n	2.5	30			650m	950n	0.0	155m	40n#	2.8n	200n	1.1u	67f	AD	A	PD169c
22	PV800A	4	60f						470m	950n		486m	75n#	9.0n	350n	1.1u	130f	AD	A	PD170
23	UV800B	4	60f	10n	3.0	30			650m	950n	0.0	486m	75n#	9.0n	200n	1.1u	100f	AD	A	PD170
24	VTB9416B	4	2.0p	2.0		10			125m	400n	B	2.0m		600p	300n	800n		AD		
25#	PH201A	4	3.0p	2.0		5.0	1.0m	36	100p§				150u#		440n	660n		CA	♦	PD265bØ
26	VTB9415B	4	4.0p	2.0		10			125m	400n	B	2.0m		600p	300n	800n		AD		
27#	BS100C	4	10p	1.0		10		26*						500p	500n	600n		AD	A	PD282Ø
28	VTB9414B	4	10p	2.0		10			125m	400n	B	2.0m		600p	300n	800n		AD		
29	PV040	4	15p	10m	150m	30			470m	950n	0.0	1.2m	15n	25p	350n	1.1u	10f	AD	A	PD169b
30	VTB1013	4	20p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	1.1u		AD		PD8kØ
31	VTB1113	4	20p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	1.1u		AD		PD7hØ
32	VTB9413	4	20p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	1.1u		AD		PD217Ø
33	VTB9413B	4	20p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	800n		AD		PD217Ø
34	VTB5041	4	50p	2.0		10		2A*	125m†	400n	C	8.0m		1.6n	300n	1.1u		AD		PD8jØ
35	VTB5041B	4	50p	2.0		10		2A*	125m†	400n	C	8.0m		1.6n	300n	800n		AD		PD8jØ
36	PV100	4	70p	10m	250m	30			450m	950n	0.0	7.9m	25n	150p	350n	1.1u	30f	AD	A	PD169
37#	BS100D	4	100p	1.0		10		16*						500p	880n§			AD	A	PD282aØ
38#	BPX94	4	200p	1.0	300m*	18		XF§	500m	780n	G	0.0	2.2m	45p	780n§			AD	F	PD42dØ
39#	BPX94A	4	200p	1.0	300m*	18		XF§	2.5	780n		0.0	2.2m	45p	780n§			AD	F	PD27jØ
40	VTB5051	4	250p	2.0		10			125m†	400n	C	23m		4.6n	300n	1.1u		AD		PD8jØ
41	VTB5051B	4	250p	2.0		10			125m†	400n	C	23m		4.6n	300n	800n		AD		PD8jØ
42	PV444	4	350p	10m	2.5	30			450m	950n	0.0	155m	45n	3.0n	350n	1.1u	90f	AD	A	PD169c
43#	TPS701	4	500p	2.0	50m*	20		27*	2.0n§		E			600p		560n		AD	B	PD216☑
44	VTB1012	4	500p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	1.1u		AD		PD8kØ
45	VTB1112	4	500p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	1.1u		AD		PD7hØ
46	VTB9412	4	500p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	1.1u		AD		PD217Ø
47	VTB9412B	4	500p	2.0		10		2A*	125m†	400n	C	2.0m		420p	300n	800n		AD		PD217Ø
48	PV800	4	1.0n	10m	3.0	30			450m	950n	0.0	500m	75n	9.0n	350n	1.1u	130f	AD	A	PD170
49	VTP1013	4	1.5n	50		200			500m	925n		2.6m		6.0p	300n	1.1u		AD		TO18
50	VTP1113	4	1.5n	50		200			500m	925n		2.6m		6.0p	300n	1.1u		AD		TO18
51#	BS530F	4	2.0n	1.0		5.0		16*	70n§	B			125m	30u		325n	700n		AD	A	PD264bØ
52#	BS530G	4	2.0n	1.0		5.0		16*	350n§	B			125m	30u		275n	1.1u		AD	A	PD264aØ
53#	BS2030	4	2.0n	2.0				16*	20n§	B			7.5m			350n	1.1u			A	PD265Ø
54#	BS2030A	4	2.0n	2.0				16*	30n§	B			7.5m			350n	1.1u			A	PD265Ø
55	VTB5040	4	2.0n	2.0		10		2A*	125m†	400n	C		8.0m		1.6n	300n	1.1u		AD		PD8jØ
56	VTB5040B	4	2.0n	2.0		10		2A*	125m†	400n	C		8.0m		1.6n	300n	800n		AD		PD8jØ
57	VTB6061	4	2.0n	2.0		10			125m	400n	C		64m		13n	300n	1.1u		AD		PD165dØ
58	VTB6061B	4	2.0n	2.0		10			125m	400n	C		64m		13n	300n	800n		AD		PD165dØ
59	VTP5041	4	3.0n	50		200			500m	925n			8.0m		15p	300n	1.1u		AD		TO5
60	VTB5050	4	3.5n	2.0		10			125m†	400n	C		23m		4.6n	300n	1.1u		AD		PD8jØ
61	VTB5050B	4	3.5n	2.0		10			125m†	400n	C		23m		4.6n	300n	800n		AD		PD8jØ
62	VTB5050UV	4	3.5n	2.0		5.0 Ø		6C*	100m	222n			23m	10u	3.0n	200n	1.1u		AD	A	PD407
63	VTP5051	4	3.5n	50		200			500m	925n			10m		20p	300n	1.1u		AD		TO5
64	VTB6060	4	5.0n	2.0		10			125m	400n	C		64m		13n	300n	1.1u		AD		PD165dØ
65	VTB6060B	4	5.0n	2.0		10			125m	400n	C		64m		13n	300n	800n		AD		PD165dØ
66	VTB6060UV	4	5.0n	2.0		5.0 Ø		6C*	100m	222n			60m	10u	8.0n	200n	1.1u		AD	A	PD408
67	SD1420-2	4	5.0n	20		50 Ø		6C*	550m†	850n	A	5.0		50n#		590n	1.0u		AD	A☑	PD93a
68	SD2420-2	4	5.0n	20		50 Ø		6C*	550n†	850n	A	5.0		50n#		590n	1.0u		AD	B	PD25aØ
69	SD3420-2	4	5.0n	20		50 Ø		6C*	550m†	850n	A	5.0		50n#		590n	1.0u		AD	F	PD95Ø
70	SD5420-2	4	5.0n	20		50 Ø		6C*	550m†	850n	A	5.0		50n#		590n	1.0u		AD	F	PD96Ø
71	STD1540-2	4	5.0n	20		50		6C	1.0m§		E			50u#		370n	1.2u		AD	B	PD93Ø
72	STD1710-2	4	5.0n	20		50		6C	350u§		E			50u#		370n	1.2u		AD	B	PD25aØ
73	STD1840-2	4	5.0n	20		50		6C	140u§		E			50u#		370n	1.2u		AD	M	PD95Ø
74	STD2040-2	4	5.0n	20		50		6C	2.0m§		E			50u#		370n	1.2u		AD	M	PD96Ø
75	VTP1012	4	7.0n	50		200			500m	925n			2.6m		6.0p	300n	1.1u		AD		TO18
76	VTP1112	4	7.0n	50		200			500m	925n			2.6m		6.0p	300n	1.1u		AD		TO18
77	VTP6061	4	7.0n	50		200			500m	925n			32m		60p	300n	1.1u		AD		TO8
78	OP900	4	8.0n	10	50m*	100 Ø		6C*	400u§		E	50		100n#		400n	1.1u		AD	A	PD25gØ
79#	PD500U	4	10n	500m				17*	65n§		B		16m	6.5u#		400n	1.1u		AD	A	PD268☑
80#	PD520U	4	10n	500m				17*	120n§		B		31m	13u#		400n	1.1u		AD	A	PD268a☑
81#	PD550U	4	10n	500m				17*	37n§		B		9.6m	7.5u#		400n	1.1u		AD	A	PD269☑
82	OP790	4	10n	10		100 Ø			600u§		E	10		600n				AD	A	PD49Ø
83	IPL34A	4	10n	20	400m	30	100m	28	450u§		E			350n	24p	350n†	1.1u†			FØ	PD370Ø
84	IPL34B	4	10n	20	400m	30	100m	28	520u§		E			350n	24p	350n†	1.1u†			FØ	PD370Ø
85	IPL34C	4	10n	20	400m	30	100m	28	630u§		E			350n	24p	350n†	1.1u†			FØ	PD370Ø
86	IPL34D	4	10n	20	400m	30	100m	28	760u§		E			350n	24p	350n†	1.1u†			FØ	PD370Ø
87	IPL34E	4	10n	20	400m	30	100m	28	920u§		E			350n	24p	350n†	1.1u†			FØ	PD370Ø
88	IPL34F	4	10n	20	400m	30	100m	28	1.1m§		E			350n	24p	350n†	1.1u†			FØ	PD370Ø
89	TIED98	4	10n	25	100m	50 Ø		6C	180m	560n			1.2m	45n#	1.5p	600n	1.0u		AD	GØ	PD42Ø
90	IPL33	4	14n	20	200m	80 Ø		07*	350n§		E			250n	12p	550n	980n			B	PD8fØ
91	VTP5040	4	15n	50		200			500m	925n			8.0m		15p	300n	1.1u		AD		TO5
92	VTP5050	4	18n	50		200			500m	925n			10m		20p	300n	1.1u		AD		TO5
93	SD3421-2	4	20n	20		75 Ø		6C*	550m†	850n	A	5.0		5.0n☑		590n	1.0u		AD	F	PD95Ø
94	SD3422-2	4	20n	20		30 Ø		6C*	550m†	850n	A	5.0		50n#		590n	1.0u		AD	F	PD95Ø
95	SD5421-2	4	20n	20		75 Ø		6C*	550m†	850n	A	5.0		5.0n☑		590n	1.0u		AD	F	PD96Ø
96	SD5422-2	4	20n	20		30 Ø		6C*	550m†	850n	A	5.0		50n#		590n	1.0u		AD	F	PD96Ø
97	STD1540-1	4	20n	20		30		6C	600u§		E			50u#		370n	1.2u		AD	B	PD93Ø
98	STD1710-1	4	20n	20		30		6C	200u§		E			50u#		370n	1.2u		AD	B	PD25aØ
99	STD1840-1	4	20n	20		30		6C	120u§		E			50u#		370n	1.2u		AD	M	PD95Ø
100	STD1850-2	4	20n	20		75		6C	2.0m§		E			5.0u#					AD	M	PD95Ø
101	STD1860-2	4	20n	20		30		6C	2.0m§		E			50u#		370n	1.2u		AD	M	PD95Ø
102	STD2040-1	4	20n	20		30		6C	2.0m§		E			50u#		370n	1.2u		AD	M	PD96Ø
103	STD2050-1	4	20n	20		75		6C						5.0u#					AD	M	PD96Ø
104	STD2050-2	4	20n	20		30		6C						50u#		370n	1.2u		AD	M	PD96Ø
105	STDD210	4	20n	20		40		6C						50u#		370n	1.2u		AD		PD209
106#	SFH200	4	25n†	1.0	95m*		20p	58%	470m	800n	C		3.0m	1.3u	100p	520n	1.0u		AD	A	PD326☑
107	OP903W	4	25n	10		32			7.0m§		E		83m§		270p						PD367Ø
108#	OSD5-0-R2	4	30n†	30		30			50 #	630n			7.7m	15n#	5.0p	430n	900n	170f	AD	C☑	PD109dØ
109	VTP6060	4	35n	50		200			500m	925n			32m		60p	300n	1.1u		AD		TO8
110	MD32	4	40n	100					660m	905n			6.9m	5.0n#	6.0p	360n	1.2u	100p		A	PD352Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR-CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	SPECTRAL RANGE HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	M T L	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1	MD33	4	40n	100					660m		905n		6.9m	5.0n#	6.0p	360n	1.2u	200f			PD353Ø
2#	BS530UV	4	50n	1.0		5.0		16*	350n§	B			125m	30u		200n	1.1u		AD	A	PD264Ø
3#	BPX93	4	50n	10	75m	32		58%	500m	C	850n	10	1.5m	800n	120p	400n	1.1u		AD		PD144e☑
4	30F2	4	50n	24	50m	40			2.4m§										AD		PD158Ø
5	31F2	4	50n	24	50m	40			12m§										AD		PD158Ø
6	32F2	4	50n	24	50m	40			26m§										AD		PD158Ø
7	33F2	4	50n	24	50m	40			48m§										AD		PD158Ø
8	34F2	4	50n	24	50m	40			96m§										AD		PD158Ø
9	35F2	4	50n	24	50m	30			192m§										AD		PD158Ø
10#	BS112	4	100n	1.0		5.0		16*	55n§	B			19m	20u		350n	1.1u		AD	A	PD266Ø
11#	BS142	4	100n	1.0		5.0		16*	180n§	B			64m	27u		350n	1.1u		AD	A	PD266aØ
12#	BPX92	4	100n	10	50m	32		58%	500m	C	850n	10	1.5m	800n	90p	400n	1.1u		AD		PD144f☑
13	FND100	4	100n	90		125		57	620m		900n		7.9m	1.0n#	8.5p	300n	1.1u	290f	AD	A	PD22dØ
14#	BPX90	4	200n	10	100m	32		48%	500m	C	850n	10	7.0m	800n	500p	400	1.1u		AD	A	PD144g☑
15#	BPX60	4	300n	10	325m	32		4C§	500m	C	850n	10	11m	1.0u	750p	400n	1.1u		AD	A	PD143Ø
16#	BPX91	4	300n	10	150m	32		48%	500m	C	850n	10	11m	1.0u	750p	400n	1.1u		AD		PD144d☑
17#	BPX91B	4	300n	10	150m	10		48§	470m	C	850n	10	11m	1.0u	750p	350n	1.1u		AD		PD144d☑
18♦#	OSD50-0	4	350n†	30		30			55 #		630n		50 *	15n#	80p	430n	900n	570f	AD	♦	PD199bØ
19	L4412	4	50u	15		20	25m	X8*	75u†	H		10	5m	75n#		420n	1.1u		AD		PD275Ø
20#	H11	4	500n	50	50m	50		6C*	8.9 §†			10							AD		PD107Ø
21#	H35	4	500n	50	50m	50		6C*	9.1 §†			10							AD		PD107Ø
22#	H60	4	500n	50	50m	50		6C*	16 §†			10							AD		PD107Ø
23#	H61	4	500n	50	50m	50		6C*	27 §†			10							AD		PD107Ø
24#	H62	4	500n	50	50m	50		6C*	38 §†			10							AD		PD107Ø
25	TIED80	4	500n	100	100m	200		6C	400m		900n	100	7.8m	15n#	4.5p	650n	1.0u†		AD	G	PD42aØ
26♦#	OSD100-0	4	800n†	30		30			55 #		630n		100 *	15n#	150p	430n	900n	870f	AD	♦	PD201bØ
27#	BPX98	4	1.0u	1.0		1.0	10m	6C%							800p	800n§			AD	A	PD312a
28#	BPY13	4	1.0u	20	250m	50			250n†		900n		18m	70n	15p	920n†			AD		PD8eØ
29♦#	OSD200-0	4	1.8u†	30		30			55 #		630n		200 *	15n#	250p	430n	900n	1.3p	AD	♦	PD202aØ
30#	OSD200E	4	1.8u†	30	60m	30		07	60 #		900n		310m	15n#	250p	350n	1.1u	1.3p	AD		PD202aØ
31♦#	OSD300-0	4	3.0u†	30		30			55 #		630n		300 *	15n#	400p	430n	900n	1.7p	AD	♦	PD202aØ
32♦#	OSD300-1	4	3.0u†	30		10			35 #		430n		300 *	20n#		250n	430n	1.7p	AD	♦	PD202aØ
33#	OSD300E	4	3.0u†	30	60m	30		07	60 #		900n		465m	15n#	400p	350n	1.1u	1.7p	AD		PD202aØ
34#	H38	4	10u	50	50m	50		6C*	16 §†			10							AD		PD107Ø
35#	OAP12	4	15u	10	30m	30		26*	50n§	G			1.5m			500n	2.1u		AB	B	PD107aØ
36	PHG2	4	30u	20	30m	30			20m§										AB		PD158Ø
37	PHG1	4	30u	30	30m	30			40m§										AB		PD158aØ
38#	BPX63	4	37T*	1.0	200m	7.0		59%	470m	C	800n	1.0	1.5m	1.0u	120p	450n	1.1u	2.7f	AD	A	PD12pØ
39#	BPW32	4	48T*	1.0	100m*	7.0		58%	470m	C	800n	1.0	1.5m	1.0u	120p	450n	1.1u	2.1f	AD	A	PD144e☑
40#	BPW33	4	52T*	1.0	150m*	7.0		48%	470m	C	800n	1.0	11m	1.0u	750p	450n	1.1u	5.3f	AD	A	PD144d☑
41#	BPX48	5	200n	10	50m*	10		4C§	550m	C	850n	10	2.9m	150n	40p	400n	1.1u		AD	M	PD145☑
42▼	E5100	1	100p†			25			420m				.20 *	5.0n				6.0f	AD		TO18Ø
43▼	E5102	1	1.0n†			25			420m				.20 *	5.0n				200p	AD		TO18Ø
44▼	E5103	1	10n†			50			420m				.30 *	15n				20p	AD		TO18Ø
45▼	OP905F	1	30n	10	150m	33		48	370m†	E	850n	38	7.5 *	200nΔ	150p☑	700n	1.2u	50f	AD		PD366☑
46▼	OP915F	1	30n	10	150m	33		48	580m†	E	950n	38	7.5 *	50nΔ	30p☑	700n	1.2u	70f	AD		PD366☑
47▼	TIL100	1	50n	10	150m	30 †		2A	40m§		940n	10	8.8 *	100n#	50p	915n	975n		AD	A	PD418☑
48▼	NSL530	1	50n	45		100 Ø	10m	48	500m	C	900n	45	.80 *	5.0n	2.5p	400n	1.1u	800f	AD	A	PD405Ø
49▼#	OSD1-5	3	200p†	0.0		10	10m	27	150m		450n		1.0 *	1.0u☑	40p	450n	850n	60f	AD		PD384Ø
50▼#	OSD5-5	3	500p†	0.0		10	10m	27	150m		450n		5.0 *	1.0u☑	150p	450n	850n	70f	AD		PD385Ø
51▼#	OSD50-5	3	1.0n†	0.0		10	10m	27	150m		450n		50 *	1.0u☑	1.5n	450n	850n	200f	AD		PD199bØ
52▼#	OSD100-5	3	2.0n†	0.0		10	10m	27	150m		450n		100 *	1.0u☑	2.5n	450n	850n	200f	AD		PD201bØ
53♦#	OSD1-3	3	5.0n†	30		100	10m	27	75 #		900n		1.0 *	10n#		630n	900n	70f	AD		PD384Ø
54▼#	OSD1-3-R	3	5.0n†	30		100	10m	27	75 #		900n		1.0 *	10n#		630n	900n	70f	AD		PD386Ø
55▼#	OSD1-3-R2	3	5.0n†	30		100	10m	27	75 #		900n		1.0 *	10n#		630n	900n	70f	AD		PD386Ø
56▼#	OSD1-3-2	3	5.0n†	30		100	10m	27	75 #		900n		1.0 *	10n#		630n	900n	70f	AD		PD386Ø
57♦#	OSD1-4	3	5.0n†	30		180	10m	27	60 #		900n		1.0 *	20n#		900n	1.0u	70f	AD		PD384Ø
58▼#	OSD1-4-R	3	5.0n†	30		180	10m	27	60 #		900n		1.0 *	20n#		900n	1.0u	70f	AD		PD386Ø
59▼#	OSD1-4-R2	3	5.0n†	30		180	10m	27	60 #		900n		1.0 *	20n#		900n	1.0u	70f	AD		PD386Ø
60▼#	OSD1-4-2	3	5.0n†	30		180	10m	27	60 #		900n		1.0 *	20n#		900n	1.0u	70f	AD		PD386Ø
61▼#	OSD1-3HSA-R	3	5.0n†	80		80	10m	27	65 #		900n		1.0 *	1.0n#		630n	900n	70f	AD		PD386Ø
62▼#	OSD1-3HSA-R2	3	5.0n†	80		80	10m	27	65 #		900n		1.0 *	1.0n#		630n	900n	70f	AD		PD386Ø
63▼#	OSD1-3HSA-2	3	5.0n†	80		80	10m	27	65 #		900n		1.0 *	1.0n#		630n	900n	70f	AD		PD386Ø
64▼#	OSD1-4HSA1-R	3	10n†	100		100	10m	27	15 #		1.0u		1.0 *	10n#		900n	1.0u	70f	AD		PD386Ø
65▼#	OSD1-4HSA1-R2	3	10n†	100		100	10m	27	15 #		1.0u		1.0 *	10n#		900n	1.0u	70f	AD		PD386Ø
66▼#	OSD1-4HSA1-2	3	10n†	100		100	10m	27	15 #		1.0u		1.0 *	10n#		900n	1.0u	70f	AD		PD386Ø
67▼#	OSD1-4HSA2-R	3	10n†	180		180	10m	27	45 #		1.0u		1.0 *	15n#		900n	1.0u	70f	AD		PD386Ø
68▼#	OSD1-4HSA2-R2	3	10n†	180		180	10m	27	45 #		1.0u		1.0 *	15n#		900n	1.0u	70f	AD		PD386Ø
69▼#	OSD1-4HSA2-2	3	10n†	180		180	10m	27	45 #		1.0u		1.0 *	15n#		900n	1.0u	70f	AD		PD386Ø
70♦#	OSD5-3	3	30n†	30		100	10m	27	75 #		900n		5.0 *	10n#	10p	630n	900n	170f	AD		PD109eØ
71▼#	OSD5-3-R	3	30n†	30		100	10m	27	75 #		900n		5.0 *	10n#		630n	900n	170f	AD		PD109eØ
72♦#	OSD5-3-R2	3	30n†	30		100	10m	27	75 #		900n		5.0 *	10n#		630n	900n	170f	AD		PD109eØ
73▼#	OSD5-3-2	3	30n†	30		100	10m	27	75 #		900n		5.0 *	10n#		630n	900n	170f	AD		PD109eØ
74♦#	OSD5-4	3	30n†	30		180	10m	27	60 #		900n		5.0 *	20n#	10p	900n	1.1u	170f	AD		PD109eØ
75▼#	OSD5-4-R	3	30n†	30		180	10m	27	60 #		900n		5.0 *	20n#		900n	1.0u	170f	AD		PD109eØ
76♦#	OSD5-4-R2	3	30n†	30		180	10m	27	60 #		900n		5.0 *	20n#		900n	1.0u	170f	AD		PD109eØ
77▼#	OSD5-4-2	3	30n†	30		180	10m	27	60 #		900n		5.0 *	20n#		900n	1.0u	170f	AD		PD109eØ
78▼#	OSD200-5	3	1.0n†	0.0		10	10m	27	150m		450n		200 *	1.0u☑	4.5n	450n	850n	1.0p	AD		PD202aØ
79▼#	OSD300-5	3	100n†	0.0		10	10m	27	150m		450n		300 *	1.0u☑	6.5n	450n	850n	2.0p	AD		PD202aØ
80▼#	OSD50-3-R	3	350n†	30		100	10m	27	75 #		900n		50 *	10n#		630n	900n	570f	AD		PD199cØ
81▼#	OSD50-3-R2	3	350n†	30		100	10m	27	75 #		900n		50 *	10n#		630n	900n	570f	AD		PD199cØ
82▼#	OSD50-3-2	3	350n†	30		100	10m	27	75 #		900n		50 *	10n#		630n	900n	570f	AD		PD199cØ
83▼#	OSD50-4-R	3	350n†	30		180	10m	27	60 #		900n		50 *	20n#		900n	1.0u	570f	AD		PD199cØ
84▼#	OSD50-4-R2	3	350n†	30		180	10m	27	60 #		900n		50 *	20n#		900n	1.0u	570f	AD		PD199cØ
85▼#	OSD50-4-2	3	350n†	30		180	10m	27	60 #		900n		50 *	20n#		900n	1.0u	570f	AD		PD199cØ
86♦	402♦	3	440M*					5C	1.2u		20u		4.8m	2.0m#	30p	200n	20u	400p	ED		TO5
87▼	E7460	4	6.0p†			25			700m		1.2u		.80 *	150n		400n	2.0u	7.0p*	AB		TO5
88♦#	OSD1-0	4	5.0n†	30		30	10m	27	55 #		630n		1.0 *	15n#	5.0p	430n	900n	70f	AD		PD384Ø
89▼#	OSD1-0-R	4	5.0n†	30		30	10m	27	55 #		630n		1.0 *	15n#	5.0p	430n	900n	70f	AD		PD386Ø
90▼#	OSD1-0-R2	4	5.0n†	30		30	10m	27	55 #		630n		1.0 *	15n#	5.0p	430n	900n	70f	AD		PD386Ø
91▼#	OSD1-0-2	4	5.0n†	30		30	10m	27	55 #		630n		1.0 *	15n#	5.0p	430n	900n	70f	AD		PD386Ø
92♦#	OSD1-2	4	5.0n†	30		60	10m	27	65 #		630n		1.0 *	10n#		630n	900n	70f	AD		PD384Ø
93▼#	OSD1-2-R	4	5.0n†	30		60	10m	27	65 #		630n		1.0 *	10n#		630n	900n	70f	AD		PD386Ø
94▼#	OSD1-2-R2	4	5.0n†	30		60	10m	27	65 #		630n		1.0 *	10n#		630n	900n	70f	AD		PD386Ø
95▼#	OSD1-2-2	4	5.0n†	30		60	10m	27	65 #		630n		1.0 *	10n#		630n	900n	70f	AD		PD386Ø
96▼	22PB18M	4	10n	10		25			500m	F	885n		2.6 *	45n#	260p§	300n	1.2u	80f	AD		PD410Ø
97▼	11PH18M▼	4	12n	10		150			500m	F	925n		1.0 *	50n#	20p§	400n	1.2u	80f	AD		PD410Ø
98▼	11PH18P▼	4	12n	10		150			1.0	F	925n		1.0 *	50n#	20p§	400n	1.2u	1.0p	AD		PD411Ø
99▼	33PB05M	4	15n	1.0		15			500m	F	885n		5.6 *	75n#	550p§	300n	1.2u	100f	AD		PD410aØ
100▼	11PD18M	4	15n	10		100			500m	F	925n		1.0 *	50n#	120p§	400n	1.2u	50f	AD		PD410Ø
101▼	11PD18P	4	15n	10		100			1.0	F	925n		1.0 *	50n#	120p§	400n	1.2u	50f	AD		PD411Ø
102♦#	OSD5-0	4	30n†	30		30	10m	27	55 #		630n		5.0 *	15n#	10p	430n	900n	170f	AD		PD109eØ
103▼#	OSD5-0-R	4	30n†	30		30	10m	27	55 #		630n		5.0 *	15n#	10p	430n	900n	170f	AD		PD109eØ
104▼#	OSD5-0-2	4	30n†	30		30	10m	27	55 #		630n		5.0 *	15n#	10p	430n	900n	170f	AD		PD109eØ
105♦#	OSD5-2	4	30n†	30		60	10m	27	65 #		630n		5.0 *	10n#		630n	900n	170f	AD		PD109eØ
106▼#	OSD5-2-R	4	30n†	30		60	10m	27	65 #		630n		5.0 *	10n#		630n	900n	170f	AD		PD109eØ
107♦#	OSD5-2-R2	4	30n†	30		60	10m	27	65 #		630n		5.0 *	10n#		630n	900n	170f	AD		PD109eØ
108▼#	OSD5-2-2	4	30n†	30		60	10m	27	65 #		630n		5.0 *	10n#		630n	900n	170f	AD		PD109eØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. SENSOR: PHOTODIODE

IN ORDER OF:(1)TYPE PHOTODIODE (2) MAX. ID (3) VR & (4)TYPE No.

LINE No.	4 TYPE No.	1 TYPE	2 MAX DARK CURR @ 25°C ID (A)	3 VR (V)	MAX RATINGS @ 25°C PWR DISSIP Pcase (W)	REV. VOLT VR (V)	DC FWD CURR. IF (A)	TEMP RNG. CODE - +	MINIMUM RESPONSIVITY Re (A/W)	SOUR -CE	λ (m)	VR (V)	ACTIVE AREA Sq In	RESP. TIME (S)	CAPAC C (F)	SPECTRAL RANGE LOW λL (m)	HIGH λH (m)	NOISE EQ.PWR Pn Watt/ Hz1/2	MT L	LEAD CODE	DRAWING Ø-RND. ☐-RECT Δ-STRIP *-CHIP
1▼	22BH18M	4	35n	10		100			500m	F	885n		2.6 *	60n#	40p§	300n	1.2u	100f	AD		PD410Ø
2▼	22BH18P	4	35n	10		100			1.0	F	925n		2.6 *	60n#	40p§	300n	1.2u	100f	AD		PD411Ø
3▼	22PH18M▼	4	35n	10		100			500m	F	925n		2.6 *	60n#	40p§	400n	1.2u	100f	AD		PD410Ø
4▼	22PH18P▼	4	35n	10		100			1.0	F	925n		2.6 *	60n#	40p§	400n	1.2u	1.0p	AD		PD411Ø
5▼	22PD18M	4	40n	10		50			500m	F	925n		2.6 *	60n#	260p§	400n	1.2u	80f	AD		PD410Ø
6▼	22PD18P	4	40n	10		50			1.0	F	925n		2.6 *	60n#	260p§	400n	1.2u	80f	AD		PD411Ø
7▼	33BH05M	4	50n	1.0		50			500m	F	885n		5.6 *	70n#	80p§	300n	1.2u	200f	AD		PD410aØ
8▼	33BH05P	4	50n	1.0		50			1.0	F	925n		5.6 *	70n#	80p§	300n	1.2u	200f	AD		PF411aØ
9▼	33PH05M▼	4	50n	1.0		50			500m	F	925n		5.6 *	70n#	80p§	400n	1.2u	200f	AD		PD410aØ
10▼	33PH05P▼	4	50n	1.0		50			1.0	F	925n		5.6 *	70n#	80p§	400n	1.2u	2.0p	AD		PD411aØ
11▼	33PD05M	4	55n	1.0		20			500m	F	925n		5.6 *	85n#	550p§	400n	1.2u	100f	AD		PD410aØ
12▼	33PD05P	4	55n	1.0		20			1.0	F	925n		5.6 *	85n#	550p§	400n	1.2u	100f	AD		PD411aØ
13▼	44PB05M	4	80n	1.0		10			500m	F	885n		18 *	250n#	1.9n§	300n	1.2u	300f	AD		PD410aØ
14▼	44BH05M	4	200n	1.0		20			500m	F	885n		18 *	85n#	250p§	300n	1.2u	500f	AD		PD410aØ
15▼	44BH05P	4	200n	1.0		20			1.0	F	925n		18 *	85n#	250p§	300n	1.2u	500f	AD		PD411aØ
16▼	44PH05M▼	4	200n	1.0		20			500m	F	925n		18 *	85n#	250p§	400n	1.2u	500f	AD		PD410aØ
17▼	44PH05P▼	4	200n	1.0		20			1.0	F	925n		18 *	85n#	250p§	400n	1.2u	5.0p	AD		PD411aØ
18▼	68PB08M	4	200n	1.0		5.0			500m	F	885n		50 *	700n#	5.2n§	300n	1.2u	600f	AD		PD410bØ
19▼	44PD05M	4	300n	1.0		10			500m	F	925n		18 *	250n#	1.9n§	400n	1.2u	300f	AD		PD410aØ
20▼	44PD05P	4	300n	1.0		10			1.0	F	925n		18 *	250n#	1.9p§	400n	1.2u	300f	AD		PD411aØ
21▼#	OSD50-0-R	4	350nt	30		30	10m	27	55 #		630n		50 *	15n#	80p	430n	900n	570f	AD		PD199cØ
22▼#	OSD50-0-R2	4	350nt	30		30	10m	27	55 #		630n		50 *	15n#	80p	430n	900n	570f	AD		PD199cØ
23▼#	OSD50-0-2	4	350nt	30		30	10m	27	55 #		630n		50 *	15n#	80p	430n	900n	570f	AD		PD199cØ
24♦#	OSD50-2	4	350nt	30		60			65 #		630n		50 *	10n#		630n	900n	570f	AD	♦	PD199bØ
25▼#	OSD50-2-R	4	350nt	30		60	10m	27	65 #		630n		50 *	10n#		630n	900n	570f	AD		PD199cØ
26▼#	OSD50-2-R2	4	350nt	30		60	10m	27	65 #		630n		50 *	10n#		630n	900n	570f	AD		PD199cØ
27▼#	OSD50-2-2	4	350nt	30		60	10m	27	65 #		630n		50 *	10n#		630n	900n	570f	AD		PD199cØ
28▼	110PBM	4	360n	1.0		5.0			500m	F	885n		86 *	1.5u#	9.5n§	300n	1.2u	800f	AD		PD410cØ
29▼	68PH08M▼	4	650n	1.0		10			500m	F	925n		50 *	150n#	800p§	400n	1.2u	700f	AD		PD410bØ
30▼	68PD09M	4	800n	1.0		5.0			500m	F	925n		50 *	700n#	5.2n§	400n	1.2u	600f	AD		PD410bØ
31♦#	OSD100-2	4	800nt	30		60			65 #		630n		100 *	10n#		630n	900n	870f	AD	♦	PD201bØ
32▼	110PH9M▼	4	1.2u	10		5.0			500m	F	925n		86 *	250n#	1.5 §	400n	1.2u	900f	AD		PD410cØ
33▼	110PD9M	4	1.5u	1.0		5.0			500m	F	925n		86 *	1.5u#	9.5n§	400n	1.2u	800f	AD		PD410cØ
34♦#	OSD200-2	4	1.8ut	30		60			65 #		630n		200 *	10n#		630n	900n	1.3p	AD	♦	PD202aØ
35▼	45PQU5M	5	50n	10					450m		890n		6.7m§		30p	400n	1.2u	1.0p	AD		PD412aØ
36▼	25PDU5M	5	100n	10					450m		890n		6.7m§		60p	400n	1.2u	1.0p			PD412Ø
37▼	420♦	6						5C	250u			1.3k	6.2m*	1.0n#	15p	10n	1.0m		ED		TO5
38▼	7461	6	16u%	10				55	200m		1.1u	10	800m*	50n#	28p	500n	1.9u	20p	AB	AN	PD22g
39▼	7460	6	80u%	10				55	700m		1.1u	10	800m*	50n#	28p	500n	1.9u	20p	AB	AN	PD22g
40♦#	OSD1E	7E	5.0nt	30	60m	10	10m	07	180m		550n	30	1.0 *	1.0u	50p	460n	660n	40u§	AD		PD384Ø
41♦#	OSD5E	7E	30nt	30	60m	10	10m	07	180m		550n	30	5.0 *	1.0u	200p	460n	660n	13u§	AD		PD385Ø
42▼	44PBF7C	7E	80n	1.0		10			250m	E	580n		18 *	250n#	1.9n§	440n	680n	300f	AD		PD413Ø
43▼	68PBF9C	7E	200n	1.0		5.0			250m	E	580n		50 *	700n#	5.2n§	440n	680n	600f	AD		PD413aØ
44♦#	OSD50E	7E	350nt	30	60m	30		07	60 #		900n		77m	15n#	80p	350n	1.1u	570f	AD		PD199aØ
45▼	110PBF9	7E	360n	1.0		5.0			250m	E	580n		86 *	1.5u#	9.5n§	440n	680n	800f	AD		PD413aØ
46♦#	OSD100E	7E	800nt	30	60m	30		07	60 #		900n		155m	15n#	150p	350n	1.1u	870f	AD		PD201aØ
47♦#	OSD1-1	7U	5.0nt	30		10	10m	27	35 #		430n		1.0 *	20n#		250n	430n	70f	AD		PD384Ø
48▼#	OSD1-1-R	7U	5.0nt	30		10	10m	27	35 #		430n		1.0 *	20n#		250n	430n	70f	AD		PD386Ø
49▼#	OSD1-1-R2	7U	5.0nt	30		10	10m	27	35 #		430n		1.0 *	20n#		250n	430n	70f	AD		PD386Ø
50▼#	OSD1-1-2	7U	5.0nt	30		10	10m	27	35 #		430n		1.0 *	20n#		250n	430n	70f	AD		PD386Ø
51♦#	OSD5-1	7U	30nt	30		10	10m	27	35 #		430n		5.0 *	20n#		250n	430n	170f	AD		PD109eØ
52▼#	OSD5-1-R	7U	30nt	30		10	10m	27	35 #		430n		5.0 *	20n#		250n	430n	170f	AD		PD109eØ
53♦#	OSD5-1-R2	7U	30nt	30		10	10m	27	35 #		430n		5.0 *	20n#		250n	430n	170f	AD		PD109eØ
54▼#	OSD5-1-2	7U	30nt	30		10	10m	27	35 #		430n		5.0 *	20n#		250n	430n	170f	AD		PD109eØ
55♦#	OSD50-1	7U	350nt	30		10			35 #		430n		50 *	20n#		250n	430n	570f	AD	♦	PD199bØ
56▼#	OSD50-1-R	7U	350nt	30		10	10m	27	35 #		430n		50 *	20n#		250n	430n	570f	AD		PD199cØ
57▼#	OSD50-1-R2	7U	350nt	30		10	10m	27	35 #		430n		50 *	20n#		250n	430n	570f	AD		PD199cØ
58▼#	OSD50-1-2	7U	350nt	30		10	10m	27	35 #		430n		50 *	20n#		250n	430n	570f	AD		PD199cØ
59♦#	OSD100-1	7U	800nt	30		10			35 #		430n		100 *	20n#		250n	430n	870f	AD	♦	PD201bØ
60♦#	OSD200-1	7U	1.8ut	30		10			35 #		430n		200 *	20n#		250n	430n	1.3p	AD	♦	PD202aØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SENSOR: PHOTOTRANSISTOR

IN ORDER OF: (1)PWR DISS-Pcase (2) MAX. VCEO (3) MAX. IC & (4) TYPE No.

LINE No.	4 TYPE No.	MAX. RATINGS @25°C 1 PWR. DISS. Pcase (W)	2 C/E VOLT VCEO (V)	3 COL CURR IC (A)	TEMP RNG. CODE - +	MAX. DARK CURR. ID @25°C (A)	VCE (V)	MIN. LIGHT CURR. IL (A)	TEST CONDITIONS Ee (W/cm2)	S R C	λ (m)	VCE (V)	RESP. TIME (S)	PEAK WAVE-LNTH. λp (m)	MAX. COLLECTOR SATURATION VOLT VCE(SAT) (V)	IC (A)	Ee W/cm2	POLAR	MTL	FEAT-URES	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	SD1440-1		10 Ø		6C*	1.0u	10	700u	5.0m	E		5.0		850n	300m	400u		NAD		AB☑	PT40aØ
2	SD1441-1		10 Ø		6C*	1.0u	10	500u	20m	E		5.0	3.0u#	850n	300m	400u		NAD		AA	PT25Ø
3	SD2440-1		10 Ø		6C*	1.0u	10	500u	20m	E		5.0		850n	300m	400u		NAD		AB	PT6b
4	SD2441-1		10 Ø		6C*	1.0u	10	1.0m	20m	E		5.0		850n	300m	400u		NAD		AB	PT6a
5	SD3440-1		10 Ø		6C*	1.0u	10	300u	20m	E		5.0		850n	300m	400u		NAD		AD	PT41
6	SD3442-1		10 Ø		6C*	100n†	5.0	500u	1.0m	E		5.0	40u#	850n	150m	400u		NAD		AD	PT41
7	SD3442-2		10 Ø		6C*	100n†	5.0	1.0m	1.0m	E		5.0	60u#	850n	150m	400u		NAD		AD	PT41
8	SD3442-3		10 Ø		6C*	100n†	5.0	2.0m	1.0m	E		5.0	80u#	850n	150m	400u		NAD		AD	PT41
9	SD3443-1		10 Ø		6C*	1.0u	15	500u	5.0m	C		5.0		850n	200m	400u	5.0m	NAD		AH	PT39Ø
10	SD5440-1		10 Ø		6C*	1.0u	10	800u	5.0m	E		5.0		850n	300m	400u		NAD		AH	PT38Ø
11	SD5442-1		10 Ø		6C*	100n†	5.0	2.0m	1.0m	E		5.0	40u#	850n	150m	400u		NAD		AH	PT38Ø
12	SD5442-2		10 Ø		6C*	100n†	5.0	4.0m	1.0m	E		5.0	60u#	850n	150m	400u		NAD		AH	PT38Ø
13	SD5442-3		10 Ø		6C*	100n†	5.0	8.0m	1.0m	E		5.0	80u#	850n	150m	400u		NAD		AH	PT38Ø
14	SD5443-1		10 Ø		6C*	1.0u	15	1.0m	5.0m	C		5.0		850n	200m	400u	5.0m	NAD		AH	PT38Ø
15	STPT1520-1		10 Ø		6C*	1.0u	10	700u	5.0m	E		5.0			300m	400u		AD		AB	PT40Ø
16	STPT1530-1		10 Ø		6C*	1.0u	10	500u	20m	E		5.0	3.0u#		300m	400u		AD		AJ	PT71
17	STPT1630-1		10 Ø		6C*	1.0u	10	1.0m	20m	E		5.0			300m	400u		AD		AB	PT6e
18	STPT1820-1		10 Ø		6C*	1.0u	10	300u	20m	E		5.0			300m	200u		AD		AD	PT41Ø
19	STPT1830-1		10 Ø		6C*	100n†	5.0	500u	1.0m	E		5.0	40u#		150m	400u		AD		AD	PT41Ø
20	STPT1830-2		10 Ø		6C*	100n†	5.0	1.0m	1.0m	E		5.0	60u#		150m	400u		AD		AD	PT41Ø
21	STPT1830-3		10 Ø		6C*	100n†	5.0	2.0m	1.0m	E		5.0	80u#		150m	400u		AD		AD	PT41Ø
22	STPT2030-1		10 Ø		6C*	100n†	5.0	2.0m	1.0m	E		5.0	40u#		150m	400u		AD		AD	PT38Ø
23	STPT2030-2		10 Ø		6C*	100n†	5.0	4.0m	1.0m	E		5.0	60u#		150m	400u		AD		AD	PT38Ø
24	STPT2030-3		10 Ø		6C*	100n†	5.0	8.0m	1.0m	E		5.0	80u#		150m	400u		AD		AD	PT38Ø
25	OP537		15			100n	10	10m	1.0m	E		5.0			1.0	5.0m	1.0m			AB	PT90a☑
26	OP640		25			100n	10	800u	20m			5.0	2.5n#	850n	400m	400u	20m	NAD		AB	PT6bØ
27	OP700		25 Ø			100n	10	800u	20m	E		5.0	5.0u#	850n	400m	400u	20m	NAD		AA	PT27Ø
28	OP701		25 Ø			100n	10	1.5m	20m	E		5.0	5.0u#	850n	400m	400u	20m	NAD		AA	PT27Ø
29	OP702		25 Ø			100n	10	3.0m	20m	E		5.0	5.0u#	850n	400m	400u	20m	NAD		AA	PT27Ø
30	OP703		25 Ø			100n	10	6.0m	20m	E		5.0	5.0u#	850n	400m	400u	20m	NAD		AA	PT27Ø
31	OP501		30			100n	15	1.0m	20m	E		5.0								AA	PT88Ø
32	OP507		30			100n	15	500u	20m	E		5.0								AB	PT90☑
33	OP560		30			100n	10	500u	1.0m	E		2.0			1.1	400u	1.0m			AA	PT89☑
34	SD3443-2		30 Ø		6C*	100n	15	1.0m	5.0m	C		5.0	6.0u#	850n	200m	400u	5.0m	NAD		AH	PT39Ø
35	SD3443-3		30 Ø		6C*	100n	15	2.0m	5.0m	C		5.0	8.0u#	850n	200m	400u	5.0m	NAD		AH	PT39Ø
36	SD3443-4		30		6C*	100n	15	4.0m	5.0m	C		5.0	16u#	850n	200m	400u	5.0m	NAD		AH	PT39Ø
37	SD5443-2		30 Ø		6C*	100n	15	4.0m	5.0m	C		5.0	4.0u#	850n	200m	400u	5.0m	NAD		AH	PT38Ø
38	SD5443-3		30 Ø		6C*	100n	15	8.0m	5.0m	C		5.0	6.0u#	850n	200m	400u	5.0m	NAD		AH	PT38Ø
39	SD5443-4		30 Ø		6C*	100n	15	16m	5.0m	C		5.0	8.0u#	850n	200m	400u	5.0m	NAD		AH	PT38Ø
40	STPT40		30 Ø		6C*	25n	30	1.0m	9.0	E		5.0	2.5u#		300m	400u		AD			PT23
41	OPC60X		30 Ø	100u		100n	10	800u	5.0m	E		5.0								ADØ	PT63*
42	OPC600L		45 Ø	100u		100n	10	800u	20m	E		5.0		850n						ADØ	PT66*
43	SD1440-2		50 Ø		6C*	25n	30	1.5m	5.0m	E		5.0	4.0u#	850n	300m	400u		NAD		ABØ	PT40aØ
44	SD1440-3		50 Ø		6C*	25n	30	3.0m	5.0m	E		5.0	8.0u#	850n	300m	400u		NAD		ABØ	PT40aØ
45	SD1440-4		50 Ø		6C*	25n	30	6.0m	5.0m	E		5.0	16u#	850n	300m	400u		NAD		ABØ	PT40aØ
46	SD1441-2		50 Ø		6C*	100n	30	2.0m	20m	E		5.0	12u#	850n	300m	400u		NAD		AA	PT25Ø
47	SD1441-3		50 Ø		6C*	100n	30	4.0m	20m	E		5.0	20u#	850n	300m	400u		NAD		AA	PT25Ø
48	SD2440-2		50 Ø		6C*	25n	30	2.0m	20m	E		5.0	4.0u#	850n	300m	400u		NAD		AB	PT6b
49	SD2440-3		50 Ø		6C*	25n	30	4.0m	20m	E		5.0	8.0u#	850n	300m	400u		NAD		AB	PT6b
50	SD2440-4		50 Ø		6C*	25n	30	7.0m	20m	E		5.0	14u#	850n	300m	400u		NAD		AB	PT6b
51	SD2441-2		50 Ø		6C*	100n	30	4.0m	20m	E		5.0	4.0u#	850n	300m	400u		NAD		AB	PT6a
52	SD2441-3		50 Ø		6C*	100n	30	8.0m	20m	E		5.0	8.0u#	850n	300m	400u		NAD		AB	PT6a
53	SD2441-4		50 Ø		6C*	100n	30	12m	20m	E		5.0	12u#	850n	300m	400u		NAD		AB	PT6a
54	SD3440-2		50 Ø		6C*	25n	30	600u	20m	E		5.0	4.0u#	850n	300m	400u		NAD		AD	PT41
55	SD3440-3		50 Ø		6C*	25n	30	1.2m	20m	E		5.0	8.0u#	850n	300m	400u		NAD		AD	PT41
56	SD3440-4		50 Ø		6C*	25n	30	2.4m	20m	E		5.0	16u#	850n	300m	400u		NAD		AD	PT41
57	SD5440-2		50 Ø		6C*	25n	30	2.0m	5.0m	E		5.0	1.5u#	850n	300m	400u		NAD		AH	PT38Ø
58	SD5440-3		50 Ø		6C*	25n	30	4.0m	5.0m	E		5.0	3.0u#	850n	300m	400u		NAD		AH	PT38Ø
59	SD5440-4		50 Ø		6C*	25n	30	8.0m	5.0m	E		5.0	6.0u#	850n	300m	400u		NAD		AH	PT38Ø
60	STPT60		50 Ø		6C*	25n	30	500u	20m	E		5.0	1.5u#		300m†	400u	20m	AD		AB	PT43a
61	STPT61		50 Ø		6C*	25n	30	500u	20m	E		5.0	1.5u#		150m†	400u	20m	AD		AB	PT43a
62	STPT62		50 Ø		6C*	25n	30	2.0m	20m	E		5.0	1.5u#		150m†	400u	20m	AD		AB	PT43a
63	STPT63		50 Ø		6C*	25n	30	4.0m	20m	E		5.0	1.5u#		150m†	400u	20m	AD		AB	PT43a
64	STPT64		50 Ø		6C*	25n	30	7.0m	20m	E		5.0	1.5u#		150m†	400u	20m	AD		AB	PT43a
65	STPT2600		50 Ø		4A*	25n	10	27m	5.0m	E		5.0	18u#		300m	400u	20m	AD		AD	PT32b
66	STPT1520-2		50 Ø		6C*	25n	30	1.5m	5.0m	E		5.0	4.0u#		300m	400u		AD		AB	PT40Ø
67	STPT1520-3		50 Ø		6C*	25n	30	3.0m	5.0m	E		5.0	8.0u#		300m	400u		AD		AB	PT40Ø
68	STPT1520-4		50 Ø		6C*	25n	30	6.0m	5.0m	E		5.0	16u#		300m	400u		AD		AB	PT40Ø
69	STPT1530-2		50 Ø		6C*	100n	30	2.0m	20m	E		5.0	12u#		300m	400u		AD		AJ	PT71
70	STPT1530-3		50 Ø		6C*	100n	30	4.0m	20m	E		5.0	20u#		300m	400u		AD		AJ	PT71
71	STPT1630-2		50 Ø		6C*	100n	30	4.0m	20m	E		5.0	4.0u#		300m	400u		AD		AB	PT6e
72	STPT1630-3		50 Ø		6C*	100n	30	8.0m	20m	E		5.0	8.0u#		300m	400u		AD		AB	PT6e
73	STPT1630-4		50 Ø		6C*	100n	30	12m	20m	E		5.0	12u#		300m	400u		AD		AB	PT6e
74	STPT1820-2		50 Ø		6C*	25n	30	600u	20m	E		5.0	4.0u#		300m	400u		AD		AD	PT41Ø
75	STPT1820-3		50 Ø		6C*	25n	30	1.2m	20m	E		5.0	8.0u#		300m	400u		AD		AD	PT41Ø
76	STPT1820-4		50 Ø		6C*	25n	30	2.4m	20m	E		5.0	16u#		300m	400u		AD		AD	PT41Ø
77▼	DCP102		50	100u		100m	30	1.0m	20	E		5.0	3.0u#	850n	300m	40u		NAD		AB	PT56Ø
78	OPC600		50 Ø	100u		100n	10	500u	20m	E		5.0		850n						AD	PT64*
79#	BPX71-201		50	20m	6F§	25n	30	750u	20m	C		5.0	3.0u#	800n	400m	400u	20m	NAD		AB	PT6cØ
80#	BPX71-202		50	20m	6F§	25n	30	2.0m	20m	C		5.0	3.0u#	800n	400m	400u	20m	NAD		AB	PT6cØ
81#	BPX71-203		50	20m	6F§	25n	30	4.0m	20m	C		5.0	3.0u#	800n	400m	400u	20m	NAD		AB	PT6cØ
82#	BPX71-204		50	20m	6F§	25n	30	7.0m	20m	C		5.0	3.0u#	800n	400m	400u	20m	NAD		AB	PT6cØ
83	HT700	25m*	25	50m	2A§	20n†	10	30u	2.0m	E		10	3.0u	900n	400m†	500u	20m			AD	PT42☑
84#	PT350	50m	20		2A*	100n	20	1.0m	10m	B		5.0	10u#	800n				NAD		AB	PT47bØ
85#	PN121S	50m	20	10m	28*	1.0n†	10	180u†	1.0k$			10	1.0u#	800n†				NAD		AB	PT47aØ
86#	PN123S	50m	20	10m	28*	1.0n†	10	400u†	1.0k$			10	3.5u#	800n†				NAD		AB	PT47aØ
87	STPT260P	50m	20	30m	4A*	1.0u	5.0	1.0m	5.0m	E		5.0	50u#	800n	300m	400u	20m	AD		AA	PT50☑
88	HEPP0002-RT	50m*	25		48§	1.0u	20	10u	1.0m	E		20 *	2.5u#	800n				NAD			PT4Ø
89	OP641	50m*	25		6C*	100n	10	500u	20m	E		5.0	2.0u#	850n	400m	400u	20m	NAD		AB	PT6bØ
90	OP642	50m*	25		6C*	100n	10	2.0m	20m	E		5.0	2.0u#	850n	400m	400u	20m	NAD		AB	PT6bØ
91	OP643	50m*	25		6C*	100n	10	4.0m	20m	E		5.0	2.5u#	850n	400m	400u	20m	NAD		AB	PT6bØ
92	OP644	50m*	25		6C*	100n	10	7.0m	20m	E		5.0	2.5u#	850n	400m	400u	20m	NAD		AB	PT6bØ
93#	TPS605	50m	25	20m	27*	500n	10	5.0m	1.0m	E		3.0	200u	725n	1.5	2.0m	1.0m	NAD		AK	PD331☑
94	HT800	50m*	25	50m	2A§	20n†	10	2.0m	10m	E		10	150u	900n	800m†	500u	20m			AD	PT42☑
95	1N4378	50m	30		6C*	25n	30	1.0m	9.0m	E		5.0	2.0u#	900n				NAD		AB	PT23aØ
96#	BPW23	50m	30		4A*	100n	20	2.0m	4.7m	C		5.0	3.0u#	800n	400m	4.0m	5.0m	NAD			PT49Ø
97	OP500	50m	30		47*	100n	15	1.0m	20m	E		5.0	5.0u#		400m	500u	20m	NAD		AA	PT31Ø
98	OP500SL	50m	30		48	100n	15	1.0m	20m	E		5.0			500m	250u	20m	NAD		AA	PT31bØ
99	OP500SLA	50m	30		48	100n	15	36m	20m	E		5.0			500m	250u	20m	NAD		AA	PT31bØ
100	OP500SLB	50m	30		48	100n	15	27m	20m	E		5.0			500m	250u	20m	NAD		AA	PT31bØ
101	OP500SLC	50m	30		48	100n	15	22m	20m	E		5.0			500m	250u	20m	NAD		AA	PT31bØ
102	OP500SLD	50m	30		48	100n	15	13m	20m	E		5.0			500m	250u	20m	NAD		AA	PT31bØ
103	OP500SLE	50m	30		48	100n	15	1.0m	20m	E		5.0			500m	250u	20m	NAD		AA	PT31bØ
104	OP500W	50m	30		48	100n	15	500u	20m	E		5.0									PT84Ø
105	OP530W	50m	30		48	100n	10	500u	500u	E		2.0			1.0	400u	500u				PT84Ø
106	OP550	50m	30		48	100n	10	800u	20m	E		5.0			400m	250u	20m			AA	PT91☑
107	OP550A	50m	30		48	100n	10	22m	20m	E		5.0			400m	250u	20m			AA	PT91☑
108	OP550B	50m	30		48	100n	10	11m	20m	E		5.0			400m	250u	20m			AA	PT91☑
109	OP550C	50m	30		48	100n	10	5.0m	20m	E		5.0			400m	250u	20m			AA	PT91☑
110	OP550D	50m	30		48	100n	10	2.5m	20m	E		5.0			400m	250u	20m			AA	PT91☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SENSOR: PHOTOTRANSISTOR

IN ORDER OF: (1)PWR DISS-Pcase (2) MAX. VCEO (3) MAX. IC & (4) TYPE No.

LINE No.	4 TYPE No.	MAX. RATINGS @25°C 1 PWR. DISS. Pcase (W)	2 C/E VOLT VCEO (V)	3 COL CURR IC (A)	TEMP RNG. CODE - +	MAX. DARK CURR. ID @25°C (A)	VCE (V)	MIN. LIGHT CURR. IL (A)	TEST CONDITIONS Ee (W/cm2)	SRC	λ (m)	VCE (V)	RESP. TIME (S)	PEAK WAVE-LNTH. λp (m)	MAX. COLLECTOR SATURATION VOLT VCE(SAT) (V)	IC (A)	Ee W/cm2	POLAR	MTL	FEAT -URES	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	OP550E	50m	30		48	100n	10	800u	20m	E		5.0			400m	250u	20m				AA	PT91☑
2	OP550SL	50m	30		48	100n	10	40u	20m	E		5.0			400m	250u	20m				AA	PT91☑
3	OP550SLA	50m	30		48	100n	10	22m	20m	E		5.0			400m	250u	20m				AA	PT91☑
4	OP550SLB	50m	30		48	100n	10	15m	20m	E		5.0			400m	250u	20m				AA	PT91☑
5	OP550SLC	50m	30		48	100n	10	12m	20m	E		5.0			400m	250u	20m				AA	PT91☑
6	OP550SLD	50m	30		48	100n	10	4.5m	20m	E		5.0			400m	250u	20m				AA	PT91☑
7	OP550SLE	50m	30		48	100n	10	40u	20m	E		5.0			400m	250u	20m				AA	PT91☑
8	P351	50m	30		X7*								15u*	900n								PT37Ø
9	P353	50m	30		X7*								15u*	900n								PT77Ø
10	P361	50m	30		X7*								15u*	900n								PT76Ø
11#	PN120S	50m	30		28*	5.0n†	10	3.0m†	500 $			10	3.0u	800n†							AB	PT47Ø
12	STPT240P	50m	30	20m	4A*	100n	5.0	350u	5.0m	E		5.0	15u#	800n	400m	500u	20m	N			AA	PT50☑
13	VTT3123	50m*	30	25m	6M	500pt	20	4.0m	5.0m	C		5.0	3.0u*	775n	150m†	1.0m	20m	N			AB	PT11Ø
14#	BPW22	50m	30	50m	4A*	100n	20	6.0m	5.0m	A	875n	5.0	7.5u#	800n	400m	4.0m	5.0m	NAD			AB	PT48Ø
15#	BPW16	50m	32	50m	2A%	200n	20	200u	1.0k$	C	735n	32	1.6u#	780n	300m	100u	1.0k$	NAD			AAØ	PT16Ø
16#	BPW17	50m	32	50m	2A%	200n	20	1.5m	1.0k$	C	735n	32	1.6u#	780n	300m	1.0m	1.0k$	NAD			AAØ	PT17Ø
17#	LS602	50m	40		6C	25n	30	500u	20m	E		5.0	1.5u#	900n	300m	400u	20m	NAD			AB	PT6bØ
18	MRD150	50m	40		4A§	100n	20 *	1.0m	5.0m	E	900n		2.5u#	800u†				NAD			ABØ	PT4Ø
19	STPT225P	50m	40	10m	4A*	100n	20 *	200u	5.0m	E		20 *	5.0u#	800n	400m	300u	20m	N			AA	PT50☑
20	VTT3122	50m*	40	25m	6M	500pt	20	1.2m	5.0m	C		5.0	2.0u*	775n	150m†	1.0m	20m	N			AB	PT11Ø
21	CLT3030	50m	40	200m§	6F§	10n	10	250u	5.0m	C		5.0	1.5u		300m	400u	20m	NAD			AB	PT15Ø
22	CLT3170	50m	40	200m§	6F§	10n	10	2.0m	5.0m	C		5.0	1.5u		300m	400u	20m	NAD			AB	PT15Ø
23	CLT5160	50m	40	200m§	6F§	25n	10	500u	5.0m	C		5.0	1.5u		300m	400u	20m	NAD			AB	PT11Ø
24	CLT5170	50m	40	200m§	6F§	25n	10	1.4m	5.0m	C		5.0	1.5u		300m	400u	20m	NAD			AB	PT11Ø
25	1N5722	50m	50		6C☑	25n	30	500u	20m	E		5.0	2.5u#					NAD			AA	PT43Ø
26	1N5723	50m	50		6C☑	25n	30	2.0m	20m	E		5.0	2.5u#					NAD			AA	PT43Ø
27	1N5724	50m	50		6C☑	25n	30	4.0m	20m	E		5.0	2.5u#					NAD			AA	PT43Ø
28	1N5725	50m	50		6C☑	25n	30	7.0m	20m	E		5.0	2.5u#					NAD			AA	PT43Ø
29	LS400	50m	50		6C	25n	30	1.0m	9.0m		1.0u	5.0	8.0u#		300m†	400u	9.0m	NAD			AB	PT23aØ
30	LS600	50m	50		6C	25n	30	500u	20m	E		5.0	1.5u#	900n	300m	400u	20m	NAD			AB	PT6bØ
31#	LS610	50m	50		6C	25n	30	500u	20m	E		5.0	1.5u#	900n	300m	400u	20m	NAD			AB	PT6bØ
32	MRD601	50m	50		6A§	25n	30 *	500u	20m	E	900n		1.5u#		130m†	500u	20m	NAD			A	PT6Ø
33	MRD602	50m	50		6A§	25n	30 *	2.0m	20m	E	900n		1.5u#		130m†	500u	20m	NAD			A	PT6Ø
34	MRD603	50m	50		6A§	25n	30 *	4.0m	20m	E	900n		1.5u#		130m†	500u	20m	NAD			A	PT6Ø
35	MRD604	50m	50		6A§	25n	30 *	7.0m	20m	E	900n		1.5u#		130m†	500u	20m	NAD			A	PT6Ø
36	OP600	50m*	50		6C*	25n	10	800u	20m	E		5.0	2.5u#	850n	400m	400u	20m	NAD			AB	PT6bØ
37	OP601	50m*	50		6C*	25n	10	500u	20m	E		5.0	2.0u#	850n	400m	400u	20m	NAD			AB	PT6bØ
38	OP602	50m*	50		6C*	25n	10	2.0m	20m	E		5.0	2.0u#	850n	400m	400u	20m	NAD			AB	PT6bØ
39	OP603	50m*	50		6C*	25n	10	4.0m	20m	E		5.0	2.5u#	850n	400m	400u	20m	NAD			AB	PT6bØ
40	OP604	50m*	50		6C*	25n	10	7.0m	20m	E		5.0	2.5u#	850n	400m	400u	20m	NAD			AB	PT6bØ
41	TIL63	50m	50		48	25n	30	400u	20m	E		5.0	8.0u#	820n	150m†	400u	20m	NAD			AA	PT30Ø
42	TIL64	50m	50		48	25n	30	400u	20m	E		5.0	8.0u#	820n	150m†	400u	20m	NAD			AA	PT30Ø
43	TIL65	50m	50		48	25n	30	1.0m	20m	E		5.0	8.0u#	820n	150m†	400u	20m	NAD			AA	PT30Ø
44	TIL66	50m	50		48	25n	30	2.5m	20m	E		5.0	8.0u#	820n	150m†	400u	20m	NAD			AA	PT30Ø
45	TIL67	50m	50		48	25n	30	6.0m	20m	E		5.0	8.0u#	820n	150m†	400u	20m	NAD			AA	PT30Ø
46	TIL78	50m	50		48	25n	30	1.0m	20m	E		5.0	8.0u#		400m†	2.0m	20m	NAD			AA	PT31aØ
47	TIL401	50m	50		6C	25n	30	500u	9.0m		1.0u	5.0	8.0u#		300m	400u	9.0m	NAD			AB	PT23aØ
48	TIL402	50m	50		6C	25n	30	2.0m	9.0m		1.0u	5.0	8.0u#		300m†	400u	9.0m	NAD			AB	PT23aØ
49	TIL403	50m	50		6C	25n	30	5.0m	9.0m		1.0u	5.0	8.0u#		300m†	400u	9.0m	NAD			AB	PT23aØ
50	TIL404	50m	50		6C	25n	30	8.0m	9.0m		1.0u	5.0	8.0u#		300m†	400u	9.0m	NAD			AB	PT23aØ
51	TIL405	50m	50		6C	25n	30	10m	9.0m		1.0u	5.0	8.0u#		300m†	400u	9.0m	NAD			AB	PT23aØ
52	TIL406	50m	50		6C	25n	30	15m	9.0m		1.0u	5.0	8.0u#		300m†	400u	9.0m	NAD			AB	PT23aØ
53	TIL601	50m	50		6C	25n	30	500u	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT6bØ
54	TIL602	50m	50		6C	25n	30	2.0m	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT6bØ
55	TIL603	50m	50		6C	25n	30	4.0m	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT6bØ
56	TIL604	50m	50		6C	25n	30	7.0m	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT6bØ
57	TIL605	50m	50		6C	25n	30	500u	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT24Ø
58	TIL606	50m	50		6C	25n	30	2.0m	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT24Ø
59	TIL607	50m	50		6C	25n	30	4.0m	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT24Ø
60	TIL608	50m	50		6C	25n	30	7.0m	20m	E		5.0	8.0u#	900n	150m†	400u	20m	NAD			AB	PT24Ø
61	VTT3121	50m*	50	25m	6M	500pt	20	500u	5.0m	C		5.0	1.0u*	775n	150m†	1.0m	20m	N			AB	PT11Ø
62	CLT3020	50m	50	200m§	6F§	10n	10	100u	5.0m	C		5.0	1.5u		300m	400u	20m	NAD			AB	PT15Ø
63	CLT3160	50m	50	200m§	6F§	10n	10	500u	5.0m	C		5.0	1.5u		300m	400u	20m	NAD			AB	PT15Ø
64#	BPY61I	70m	50	60m	5C§	100n	25	3.2m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT55Ø
65#	BPY61II	70m	50	60m	5C§	100n	25	5.0m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT55Ø
66#	BPY61III	70m	50	60m	5C§	100n	25	9.0m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT55Ø
67#	BPY61IV	70m	50	60m	5C§	100n	25	14m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT55Ø
68#	TPS603	75m	20	20m	27*	100n	10	500u	10m			3.0	2.0u#		500m	500	10m	AD			AB	PT47Ø
69	FPT101	75m	30	25m	6F*	100n	5.0	800u*	20m	C		5.0		800n	300m	400u	20m	AD			AA	PT27Ø
70#	PT510	75m	35		2C	10u	30	2.5m	10m	E		5.0	3.0u*	800n	200m†	1.0m	10m	NAD			AD	PT32nØ
71#	PT500F	75m	45		2C*	100n	30	100u	10m	B		5.0	10u#	800n				NAD			AA	PT81Ø
72#	PT501	75m	45		2C*	10u	30	2.5m	10m	E			3.0u*	800n	200m†	1.0m	10m	NAD			AB	PT14bØ
73	P171	100m	20		X7*								3.0u	900n								PT78Ø
74#	PN111W	100m	20	10m	28*	50n†	10	6.0 †	500 $			10	5.0u#	900n†	300m†		1.0k$	NAD			AH	PT56
75#	PN108CL	100m*	20	20m	28	200n	10	6.0m†	500 $			10	5.0u#	900n	300m†	1.0m	1.0k$	NAD			A	PT14c
76#	PN110	100m	20	20m	28*	50n†	10	2.0m†	500 $			10	3.0u	800n†	250m†	1.0m	1.0k$	NAD			AD	PT37Ø
77#	PN150	100m*	20	20m	27	10n†	10						3.0u#	800n	200m†	1.0m	1.0 $	NAD			AC	PT72Ø
78	VTT9313	100m	20	50m	5A	5.0n†	20	2.5m	5.0	C		5.0	10u#	775n	100m†	1.0m	20m	N			AA	PT13Ø
79	107-1	100m	25	15m	07*	200n	5.0	1.0m	2.0m	E		5.0 *	15u#		500m	1.0m	10m	N			AM	PT69☑
80	LA700	100m*	25	100m	48§	20n†	10	20u	2.0m	E		10	3.0u		500m	500u	20m	AD				*
81	LA800	100m*	25	100m	48§	20n†	10	2.0u	2.0m	E		10	150u		800m	500u	20m	AD				*
82	HEP312-RT	100m*	30		48§	1.0u	20 *	100u	1.0m	E		20 *	2.5u#	800n				NAD			AB	PT60Ø
83#	BPX95	100m	30	25m	4A§	100n	20	5.0m	1.0k$	C		5.0	3.0u#	800n	400m	3.0m	1.0k$	NAD			AB	PT45Ø
84	LA200	100m*	30	25m	28§	200n	5.0	800u	2.0m	E		5.0	20u		550m		20m	AD				*
85	LA600	100m*	30	25m	28§	200n	10	150u	2.0m	E		10	3.0u		400m	500u	20m	AD				*
86	VTT9323	100m*	30	25m	5A	2.0n†	20	600u	5.0m	C		5.0	3.0u#	775n	150m†	1.0m	20m	N			AA	PT13Ø
87#	PH102	100m	30	40m	38%	200n	10	50u	100 $	C		2.0	5.0u		300m	500u	1.0k$	N			AA	PT60aØ
88#	BPX95B	100m	30	50m		100n	20	5.0m	4.7m	C		5.0	3.0u#	800n				NAD			A	PT83Ø
89	VTT9312	100m	30	50m	5A	3.0n†	20	1.0m	5.0	C		5.0	5.0u#	775n	100m†	1.0m	20m	N			AA	PT13Ø
90#	BPW71	100m*	30	150m		25n	10	15m	1.0m	C		5.0	60u#	800n				NAD				
91#	BPX81I	100m	32	50m	48%	200n	25	2.5m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT54☑
92#	BPX81II	100m	32	50m	48%	200n	25	4.0m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT54☑
93#	BPX81III	100m	32	50m	48%	200n	25	7.0m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT54☑
94#	BPX81IV	100m	32	50m	48%	200n	25	11m	20m	C		5.0	10u	850n	200m	250u	5.0m	NAD			AA	PT54☑
95#	PT410	100m	35		28*	1.0u	10	5.0m	1.0m	E		5.0	60u	800n				NAD			AB	PT82Ø
96#	ZMX130	100m	35		8*	25n	10	500u	100 *	C		20 *	2.5u	850m				NAD			AD	PT33☑
97#	ZMX131	100m	35		8*	25n	10	500u	100 *	C		20 *	2.5u	850m				NAD			AJ	PT33☑
98#	ZMX151	100m	35			25n				C			4.0u									
99	MRD160	100m	40		48§	100n	20 *	500u	5.0m	E		20 *	2.5 #	740n	300m	2.0m	5.5m	NAD			A	PT85Ø
100	MRD450	100m	40		48§	100n	20 *	1.0m	5.0m	E	900n		2.5u#					NAD			ABØ	PT5Ø
101	VTT9322	100m*	40	25m	5A	1.0n†	20	300u	5.0m	C		5.0	2.0u#	775n	150m†	1.0m	20m	N			AA	PT13Ø
102	VTT9311	100m	40	50m	5A	3.0n†	20	400u	5.0	C		5.0	5.0u#	775n	100m†	1.0m	20m	N			AA	PT13Ø
103#	BPX71	100m*%	50	20m	6F§	25n	30	500u	20m	C		5.0	3.0u#	800n				NAD				PT6cØ
104	VTT9320	100m*	50	25m	5A	1.0n†	20	75u	5.0m	C		5.0	1.0u#	775n	150m†	1.0m	20m	N			AA	PT13Ø
105	VTT9321	100m*	50	25m	5A	1.0n†	20	150u	5.0m	C		5.0	2.0u#	775n	150m†	1.0m	20m	N			AA	PT13Ø
106	VTT9310	100m	50	50m	5A	3.0n†	20	200u	5.0	C		5.0	3.0u#	775n	100m†	1.0m	20m	N			AA	PT13Ø
107#	PN107F	150m	20	30m	28*	50n†	10	400u†	100 $	C		10	5.0u#	900n†	300m†	1.0m	1.0 $	NAD			AB	PD8d
108#	PN108F	150m*	20	30m	28	2.0u	10	500u†	100 $			10	5.0u#	900n	300m†	1.0m	1.0k$	NAD			AD	PT18n
109▼#	2SC2072-1	150m	25	100m	28§	1.5n	10	2.0u	50 $			10						NAD			♦	PT93
110▼#	2SC2072-2	150m	25	100m	28§	1.5n	10	3.0u	50 $			10						NAD			♦	PT93

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SENSOR: PHOTOTRANSISTOR

IN ORDER OF: (1)PWR DISS-Pcase (2) MAX. VCEO (3) MAX. IC & (4) TYPE No.

LINE No.	4 TYPE No.	MAX. RATINGS @25°C 1 PWR. DISS. Pcase (W)	2 C/E VOLT VCEO (V)	3 COL CURR IC (A)	TEMP RNG. CODE - +	MAX. DARK CURR. ID @25°C (A)	VCE (V)	MIN. LIGHT CURR. IL (A)	TEST CONDITIONS Ee (W/cm2)	SRC	λ (m)	VCE (V)	RESP. TIME (S)	PEAK WAVE-LNTH. λp (m)	MAX. COLLECTOR SATURATION VOLT VCE(SAT) (V)	IC (A)	Ee W/cm2	POLAR	MTL	FEAT-URES	LEAD CODE	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1#	PN101	150m*	30	50m	3C	5.0n†	10						3.0u#	800n	200m†	1.0m	500m$	NAD			AA	PT14a
2#	PN101F	150m	30	50m	28*	5.0n†	10	300u†	100 $	C		10	3.0u	800n†	200m†	100u	500m$	NAD			AB	PD8d
3#	PN102	150m*	30	50m	3C	5.0n†	10						3.0u#	800n	200m†	1.0m	500m$	NAD			AD	PT2gØ
4#	PN102F	150m*	30	50m	28	300n	10	300u†	100 $			10	3.0u#	800n	200m†	100u	500 $	NAD			AD	PT18n
5#	TPS601	150m	30	50m	3C*	500n	30	10m	10m			3.0	2.0u#		500m	5.0m	10m	AD			AA	PD7cØ
6#	TPS604	150m	30	50m	3C*	500n	30	10m	10m			3.0	2.0u#	800n	500m	50m	10m	NAD			AD	PT34dØ
7#	2B50PB	150m	30	100m	49§	100n	5.0	900u	1.0m		940n	5.0	6.0u#	850n	300m	1.0m	1.0m	AD			AJ	PT32fØ
8#	2B50PC	150m	30	100m	49§	100n	5.0	1.8m	1.0m		940n	5.0	9.0u#	850n	300m	1.0m	1.0m	AD			AJ	PT32fØ
9#	PT550	150m	35	100m	2C*	100n	10	20m†	100u	B			350u#	800n				NAD			AD	PT2uØ
10#	PT550F	150m	35	100m	2C*	1.0u	10	3.0m	1.0m	B		5.0	350u#	800n				NAD			AD	PT2tØ
11#	BPX70	180m*	30	25m	4C§	100n	20	100u	4.7m	C		5.0	3.0u#	800n				NAD			ADØ	PT34aØ
12#	BPX70C	180m*	30	25m	4C§	100n	20	100u	4.7m	C		5.0	3.0u#	800n				NAD			AD	PT34aØ
13#	BPX70D	180m*	30	25m	4C§	100n	20	200u	4.7m	C		5.0	3.0u#	800n				NAD			AD	PT34aØ
14#	BPX70E	180m*	30	25m	4C§	100n	20	300u	4.7m	C		5.0	3.0u#	800n				NAD			AD	PT34aØ
15#	BPX72	180m*	30	25m	4C§	100n	20	500u	4.7m	C		5.0	6.0u#	800n				NAD			ADØ	PT34aØ
16#	BPX72C	180m*	30	25m	4C§	100n	20	500u	4.7m	C		5.0	6.0u#	800n				NAD			AD	PT34aØ
17#	BPX72D	180m*	30	25m	4C§	100n	20	850u	4.7m	C		5.0	6.0u#	800n				NAD			AD	PT34aØ
18#	BPX72E	180m*	30	25m	4C§	100n	20	1.4m	4.7m	C		5.0	6.0u#	800n				NAD			AD	PT34aØ
19	FPT132	200m	10	25m	58§	500n	5.0	200u*	1.0m	C		5.0	18u#	850n	700m	1.0m	20m	NAD			AD	PT37Ø
20	FPT137	200m	10	25m	58§	500n	5.0	200u*	1.0m	C		5.0	18u#	850n	700m	1.0m	20m	NAD			AD	PT36Ø
21	FPT120A	200m	15	25m	58§	100n	5.0	1.5m*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT37Ø
22	FPT120B	200m	15	25m	58§	100n	5.0	2.0m*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT37Ø
23	FPT120C	200m	15	25m	58*	100n	5.0	16m*	5.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT37Ø
24	FPT130A	200m	15	25m	58§	100n	5.0	900u*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT36Ø
25	FPT130B	200m	15	25m	58§	100n	5.0	1.2m*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT36Ø
26	FPT131	200m	15	25m	58§	500n	5.0	100u*	5.0m	C		5.0	2.8u#	850n	700m	500u	20m	NAD			AD	PT37Ø
27	FPT136	200m	15	25m	58§	500n	5.0	100u*	5.0m	C		5.0	2.8u#	850n	700m	500u	20m	NAD			AD	PT36Ø
28	STPT120	200m	15	25m	58*	100n	5.0	400u	1.0m	C		5.0	18u#	800n	550m	1.0m	20m	AD			AD	PT37cØ
29	STPT120A	200m	15	25m	58*	100n	5.0	1.5m	1.0m	C		5.0	18u#	800n	550m	1.0m	20m	AD			AD	PT37cØ
30	STPT120B	200m	15	25m	58*	100n	5.0	2.0m	1.0m	C		5.0	18u#	800n	550m	1.0m	20m	AD			AD	PT37cØ
31	STPT130	200m	15	25m	58*	100n	5.0	400u	1.0m	C		5.0	20u#	800n	550m	1.0m	20m	AD			AD	PT36bØ
32	STPT130A	200m	15	25m	58*	100n	5.0	900u	1.0m	C		5.0	20u#	800n	550m	1.0m	20m	AD			AD	PT36bØ
33	STPT130B	200m	15	25m	58*	100n	5.0	1.2m	1.0m	C		5.0	20u#	800n	550m	1.0m	20m	AD			AD	PT36bØ
34	FPT120	200m	20	25m	58§	100n	5.0	400u*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT37aØ
35	FPT130	200m	20	25m	58§	100n	5.0	400u*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT36aØ
36	FPT220	200m	20	25m	58§	100n	5.0	1.0m*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT37aØ
37	FPT230	200m	20	25m	58§	100n	5.0	600u*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT36aØ
38	FPT320	200m	20	25m	58§	100n	5.0	750u*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT37aØ
39	FPT330	200m	20	25m	58§	100n	5.0	450u*	1.0m	C		5.0	18u#	850n	550m	1.0m	20m	NAD			AD	PT36aØ
40#	OPT500	200m	30		XD*	25n	30	200u	20m	E		5.0		700n	400m		20m	NAD			AJ	PT32mØ
41	VTT9013	200m	30			100n	5.0	5.0m	5.0m			5.0	10u	850n	150m†	1.0m	5.0m	NAD			AD	PT36Ø
42	VTT9113	200m	30			100n	5.0	12m	5.0m			5.0	10u	850n	150m†	1.0m	5.0m	NAD			AD	PT37Ø
43	FPT100	200m	30	25m	58§	100n	5.0	200u	5.0m	C		5.0	2.8u#	800n	300m	500u	20m	NAD			AD	PT37Ø
44	FPT100A	200m	30	25m	58§	100n	5.0	1.0m	5.0m	C		5.0	2.8u#	800n	300m	500u	20m	NAD			AD	PT37Ø
45	FPT100B	200m	30	25m	58§	100n	5.0	1.3m	5.0m	C		5.0	2.8u#	800n	300m	500u	20m	NAD			AD	PT37Ø
46	FPT110	200m	30	25m	58§	100n	5.0	200u*	5.0m	C		5.0	2.8u#	800n	330m	500u	20m	NAD			AD	PT36Ø
47	FPT110A	200m	30	25m	58§	100n	5.0	600u*	5.0m	C		5.0	2.8u#	800n	330m	500u	20m	NAD			AD	PT36Ø
48	FPT110B	200m	30	25m	58§	100n	5.0	800u*	5.0m	C		5.0	2.8u#	800n	330m	500u	20m	NAD			AD	PT36Ø
49	LPT100	200m	30	25m	58	100n	5.0	200u	50m	C		5.0	2.8u	800n	300m	500u	20m	NBC			AD	PT37Ø
50	LPT100A	200m	30	25m	58	100n	5.0	1.0m	50m	C		5.0	2.8u	800n	300m	500u	20m	NBC			AD	PT37Ø
51	LPT100B	200m	30	25m	58	100n	5.0	1.3m	50m	C		5.0	2.8u	800n	300m	500u	20m	NBC			AD	PT37Ø
52	LPT110	200m	30	25m	58	100n	5.0	200u	50m	C		5.0	2.8u	800n	330m	500u	20m	NBC			AD	PT36Ø
53	LPT110A	200m	30	25m	58	100n	5.0	600u	50m	C		5.0	2.8u	800n	330m	500u	20m	NBC			AD	PT36Ø
54	LPT110B	200m	30	25m	58	100n	5.0	800u	50m	C		5.0	2.8u	800n	330m	500u	20m	NBC			AD	PT36Ø
55#	MFPT100	200m	30	25m	58§	100n	5.0	200u	5.0m			5.0	2.8u#		300m	500u	20m	NAD			AH	PT56b
56#	MFPT100A	200m	30	25m	58§	100n	5.0	1.0m		C			2.8u#		300m	500u	20m	NAD			AH	PT56b
57#	MFPT100B	200m	30	25m	58§	100n	5.0	1.3m					2.8u#		300m	500u	20m	NAD			AH	PT56b
58	STPT100	200m	30	25m	58*	100n	5.0	200u	5.0m	C		5.0	2.8u#	800n	300m	500u	20m	AD			AD	PT37bØ
59	STPT100A	200m	30	25m	58*	100n	5.0	1.0m	5.0m	C		5.0	2.8u#	800n	300m	500u	20m	AD			AD	PT37bØ
60	STPT100B	200m	30	25m	58*	100n	5.0	1.3m	5.0m	C		5.0	2.8u#	800n	300m	500u	20m	AD			AD	PT37bØ
61	STPT110	200m	30	25m	58*	100n	5.0	200u	5.0m	C		5.0	2.8u#	800n	330m	500u	20m	AD			AD	PT36Ø
62	STPT110A	200m	30	25m	58*	100n	5.0	600u	5.0m	C		5.0	2.8u#	800n	330m	500u	20m	AD			AD	PT36Ø
63	STPT110B	200m	30	25m	58*	100n	5.0	800u	5.0m	C		5.0	2.8u#	800n	330m	500u	20m	AD			AD	PT36Ø
64	MT1	200m*	30	40m	5C*	20n	5.0	6.0m*	10m	E	900n	5.0	2.0u#	850n	500m	2.0m	10m	NAD			AD	PT18aØ
65	MT2	200m*	30	40m	5C*	20n	5.0	12m*	10m	E	900n	5.0	2.0u#	850n	500m	2.0m	10m	NAD			AD	PT2fØ
66	MT8020	200m*	30	40m	5A	50n	10	7.5m†	10m	A	900n	30	2.5u#	800n	400m	1.6m	10m	NAD			AB	PD89Ø
67	NSL610-1	200m*	30	50m	XC*	50n	15	200u	10m	C		5.0	3.0u#	825n	500m	500u	20m	NAD				PT32g
68	NSL610-3	200m*	30	50m	XC*	50n	15	1.0m	10m	C		5.0	3.0u#	825n	500m	500u	20m	NAD				PT32g
69	NSL610-6	200m*	30	50m	XC*	50n	15	4.0m	10m	C		5.0	4.0u#	825n	500m	500u	20m	NAD				PT32g
70	NSL610-9	200m*	30	50m	XC*	50n	15	7.0m	10m	C		5.0	5.0u#	825n	500m	500u	20m	NAD				PT32g
71	NSL611	200m*	30	50m	XC*	100n	15	8.0m	10m			5.0	5.0u#	825n	500m	500u	20m	NAD				PT32gØ
72	L14H2	200m*	30	100m	XA§	100n	10	2.0m	10m	E		5.0	8.0u☐	850n	400m	10m		NAD			AC	PT1Ø
73	L14H4	200m*	30	100m	XA§	100n	10	500u	10m	E		5.0	8.0u☐	850n	400m	10m		NAD			AC	PT1Ø
74	EPW29	200m	32	100m	2A§	200n	20	2.0m	100 $	C		5.0		780n	300m	1.0m		NAD			AD	PT10☐
75#	ZM110	200m	35		5C*	1.0u	10	1.1m	10 *	C		10 *	2.5u#	800n				NAD			AD	PT2dØ
76#	ZM111	200m	35		5C*	1.0u	10	600u	10 *	C		10 *	1.7u#	800n				NAD			AD	PT2dØ
77#	ZMX141	200m	35		8*	25n	10	500u	100 *	C		10 *	2.5u	850n				NAD			AD	PT34Ø
78	VTT9011	200m	50			10n	5.0	500u	5.0m			5.0	2.0u	850n	150m†	1.0m	5.0m	NAD			AD	PT36Ø
79	VTT9012	200m	50			10n	5.0	2.0m	5.0m			5.0	4.0u	850n	150m†	1.0m	5.0m	NAD			AD	PT36Ø
80	VTT9111	200m	50			10n	5.0	2.0m	5.0m			5.0	2.0u	850n	150m†	1.0m	5.0m	NAD			AD	PT37Ø
81	VTT9112	200m	50			10n	5.0	6.0m	5.0m			5.0	4.0u	850n	150m†	1.0m	5.0m	NAD			AD	PT37Ø
82	L14H1	200m*	60	100m	XA§	100n	10	500u	10m	E		5.0	8.0u☐	850n	400m	10m		NAD			AC	PT1Ø
83	L14H3	200m*	60	100m	XA§	100n	10	2.0m	10m	E		5.0	8.0u☐	850n	400m	10m		NAD			AC	PT1Ø
84#	BP103BI	210m*	35	100m	58%	100n	30	7.0m	20m	C		5.0	10u#	850n				NAD			AA	PD325Ø
85#	BP103BII	210m*	35	100m	58%	100n	30	11m	20m	C		5.0	10u#	850n				NAD			AA	PD325Ø
86#	BP103BIII	210m*	35	100m	58%	100n	30	18m	20m	C		5.0	10u#	850n				NAD			AA	PD325Ø
87#	BP103BIV	210m*	35	100m	58%	100n	30	28m	20m	C		5.0	10u#	850n				NAD			AA	PD325Ø
88	VTT1013	250m*	20	200m	6M	2.0n†	20	2.5m	5.0m			5.0	10u#	775n	100m†	1.0m	20m	N			AD	PT12aØ
89	VTT1113	250m*	20	200m	6M	2.0n†	20	8.0m	5.0m			5.0	10u#	775n	100m†	1.0m	20m	N			AD	PT12Ø
90	OP800	250m*	30	50m	6C*	100n	10	800u	5.0m			5.0	3.0u#	850n	400m	400u	20m	NAD			ADØ	PT32eØ
91	OP800W	250m	30	50m	6C*	100n	10	300u	5.0m	E		5.0	4.0u#	850n	400m	400u	20m	NAD			AD	PT18jØ
92	OP801	250m*	30	50m	6C*	100n	10	500u	5.0m			5.0	3.0u#	850n	400m	400u	20m	NAD			ADØ	PT32eØ
93	OP801W	250m	30	50m	6C*	100n	10	500u	5.0m	E		5.0	4.0u#	850n	400m	400u	20m	NAD			AD	PT18jØ
94	OP802	250m*	30	50m	6C*	100n	10	2.0m	5.0m			5.0	3.0u#	850n	400m	400u	20m	NAD			ADØ	PT32eØ
95	OP802W	250m	30	50m	6C*	100n	10	2.5m	5.0m	E		5.0	4.5u#	850n	400m	400u	20m	NAD			AD	PT18jØ
96	OP803	250m*	30	50m	6C*	100n	10	4.0m	5.0m			5.0	3.0u#	850n	400m	400u	20m	NAD			ADØ	PT32eØ
97	OP804	250m*	30	50m	6C*	100n	10	7.0m	5.0m			5.0	3.0u	850n	400m	400u	20m	NAD			ADØ	PT32eØ
98	OP805	250m*	30	50m	6C*	100n	10	15m	5.0m			5.0	3.0u	850n	400m	400u	20m	NAD			ADØ	PT32eØ
99▼	OP811	250m	30	50m	6C	100n	10	500u	5.0m	E		5.0	5.0u#	850n	400m	400u	5.0m	NAD			♦	PT92Ø
100▼	OP812	250m	30	50m	6C	100n	10	2.0m	5.0m	E		5.0	5.0u#	850n	400m	400u	5.0m	NAD			♦	PT92Ø
101▼	OP813	250m	30	50m	6C	100n	10	4.0m	5.0m	E		5.0	5.0u#	850n	400m	400u	5.0m	NAD			♦	PT92Ø
102▼	OP814	250m	30	50m	6C	100n	10	7.0m	5.0m	E		5.0	6.0u#	850n	400m	400u	5.0m	NAD			♦	PT92Ø
103▼	OP815	250m	30	50m	6C	100n	10	15m	5.0m	E		5.0	6.0u#	850n	400m	400u	5.0m	NAD			♦	PT92Ø
104#	OPT581	250m	30	50m	2C	100n	10	5.0m	5.0m	E		5.0	8.0u#	900n	200m†	2.0m	20m	NAD			ADØ	PT32hØ
105	TIL81	250m	30	50m	6C	100n	10	5.0m	5.0m	E		5.0	8.0u#	900n	200m†	2.0m	20m	NAD			ADØ	PT32hØ
106	TIL99	250m	30	50m	6C	100n	10	1.0m	20m	E		5.0	8.0u#		200m†	400u	20m	NAD			ADØ	PT32jØ
107#	2B50B	250m	30	100m	5C§	100n	5.0	6.0m	100u		940n	5.0	5.0u#	850n	300m	1.0m	1.0m	AD			AJ	PT2eØ
108#	2B50C	250m	30	100m	5C§	100n	5.0	12m	100u		940n	5.0	9.0u#	850n	300m	1.0m	1.0m	AD			AJ	PT2eØ
109#	2B50FB	250m	30	100m	5C§	100n	5.0	600u	1.0m		940n	5.0	6.0u#	850n	300m	1.0m	1.0m	AD			AJ	PT18kØ
110#	2B50FC	250m	30	100m	5C§	100n	5.0	1.2m	1.0m		940n	5.0	9.0u#	850n	300m	1.0m	1.0m	AD			AJ	PT18kØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. SENSOR: PHOTOTRANSISTOR

IN ORDER OF: (1)PWR DISS-Pcase (2) MAX. VCEO (3) MAX. IC & (4) TYPE No.

LINE No.	4 TYPE No.	MAX. RATINGS @25°C 1 PWR. DISS. Pcase (W)	2 C/E VOLT VCEO (V)	3 COL CURR IC (A)	TEMP RNG. CODE - +	MAX. DARK CURR. ID @25°C (A)	VCE (V)	MIN. LIGHT CURR. IL (A)	TEST CONDITIONS Ee (W/cm2)	S R C	λ (m)	VCE (V)	RESP. TIME (S)	PEAK WAVE-LNTH. λp (m)	MAX. COLLECTOR SATURATION VOLT VCE(SAT) (V)	IC (A)	Ee W/cm2	P O L A R	M T L	FEAT -URES	LEAD CODE	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1	CLT2020	250m	30	200m§	6F§	25n	10	400u	5.0m	C		5.0	3.0u		300m	10m	0	NAD			ADØ	PT18Ø
2	CLT2030	250m	30	200m§	6F§	25n	10	1.0m	5.0m	C		5.0	3.0u		300m	10m	0	NAD			ADØ	PT18Ø
3	CLT2160	250m	30	200m§	6F§	25n	10	4.0m	5.0m	C		5.0	3.0u		300m	10m	0	NAD			ADØ	PT2Ø
4	VTT1010	250m*	30	200m	6M	500pt	20	1.0m	5.0m			5.0	5.0u#	775n	100mt	1.0m	20m	N			AD	PT12aØ
5	VTT1023	250m*	30	200m	6M	500pt	20	600u	5.0	C		5.0	3.0u#	775n	150mt	1.0m	20m	N			AD	PT12aØ
6	VTT1112	250m*	30	200m	6M	500pt	20	4.0m	5.0m			5.0	5.0u#	775n	100mt	1.0m	20m	N			AD	PT12Ø
7	VTT1123	250m*	30	200m	6M	500pt	20	3.0m	5.0	C		5.0	3.0u#	775n	150mt	1.0m	20m	N			AD	PT12Ø
8	CLCT5320	250m*	35	100u	5F§	40n	10	400u	5.0m	C		5.0	5.0u#		500m						AD	PT67a*
9	CLCT5511	250m*	35	100u	5F§	40n	10	200u	5.0m	C		5.0	5.0u#		500m						AD	PT67*
10	CLR2049	250m	40			100n	10	200u	200u	C		5.0										PTØ
11#	2B95B	250m	40	100m	5C§	100n	5.0	6.0m	100u		940n	5.0	5.0u#	850n	300m	1.0m	1.0m	AD			AD	PT2eØ
12#	2B95C	250m	40	100m	5C§	100n	5.0	12m	100u		940n	5.0	9.0u#	850n	300m	1.0m	1.0m	AD			AD	PT2eØ
13	CLT2140	250m	40	200m§	6F§	25n	10	1.2m	5.0m	C		5.0	3.0u		300m	10m	0	NAD			ADØ	PT2Ø
14	CLT2150	250m	40	200m§	6F§	25n	10	2.4m	5.0m	C		5.0	3.0u		300m	10m	0	NAD			ADØ	PT2Ø
15	VTT1011	250m*	40	200m	6M	500pt	20	400u	5.0m			5.0	5.0u#	775n	100mt	1.0m	20m	N			AD	PT12aØ
16	VTT1022	250m*	40	200m	6M	500pt	20	300u	5.0	C		5.0	2.0u#	775n	150mt	1.0m	20m	N			AD	PT12aØ
17	VTT1111	250m*	40	200m	6M	500pt	20	2.0m	5.0m			5.0	5.0u#	775n	100mt	1.0m	20m	N			AD	PT12Ø
18	VTT1122	250m*	40	200m	6M	500pt	20	1.2m	5.0	C		5.0	2.0u#	775n	150mt	1.0m	20m	N			AD	PT12Ø
19	MFOD200▼	250m*	40	250m	5H§	25n	20 *	3.0m	1.0m		900n	20 *	4.0u*	810n				NAD			AD	PT2Ø
20	MRD300	250m	50		6M§	25n	20 *	4.0m	5.0m	E			2.5u#					NAD			ADØ	PT2aØ
21	MRD310	250m	50		6M§	25n	20 *	1.0m	5.0m	E			2.5u#					NAD			ADØ	PT2aØ
22	STPT300	250m*	50		6M*	25n	20 *	1.0m	200u			20 *	1.0u	800n				NAD			ADØ	PT2mØ
23	STPT310	250m*	50		6M*	25n	20 *	4.0m	800u			20 *	1.0u	800n				NAD			ADØ	PT2mØ
24	VTT1020	250m*	50	50m	6M	500pt	20	75u	5.0m			5.0	1.0u#	775n	150mt	1.0m	20m	N			AD	PT12aØ
25	VTT1021	250m*	50	50m	6M	500pt	20	150u	5.0m			5.0	2.0u#	775n	150mt	1.0m	20m	N			AD	PT12aØ
26	CLT2010	250m	50	200m§	6F§	25n	10	200u	5.0m	C		5.0	3.0u		300m	10m	0	NAD			ADØ	PT18Ø
27	CLT2130	250m	50	200m§	6F§	25n	10	600u	5.0m	C		5.0	3.0u		350m	10m	0	NAD			ADØ	PT2Ø
28	VTT1012	250m*	50	200m	6M	500pt	20	200u	5.0m			5.0	3.0u#	775n	100mt	1.0m	20m	N			AD	PT12aØ
29	VTT1110	250m*	50	200m	6M	500pt	20	1.0m	5.0m			5.0	3.0u#	775n	100mt	1.0m	20m	N			AD	PT12Ø
30	VTT1120	250m*	50	200m	6M	500pt	20	250u	5.0	C		5.0	1.0u#	775n	150mt	1.0m	20m	N			AD	PT12Ø
31	VTT1121	250m*	50	200m	6M	500pt	20	650u	5.0	C		5.0	2.0u#	775n	150mt	1.0m	20m	N			AD	PT12Ø
32	FF600♦	300m	15 †		6M§	8.0mØ	10 Ø	800ut	1.0 *	F		10 Ø	30n					NAD	JFET		GJ	PT9cØ
33	FF617♦	300m	15 †		6M§	8.0mØ	10 Ø	800ut	1.0 *	F		10 Ø	30n					NAD	JFET		GJ	PT46bØ
34#	PH241N♦	300m	25 †		6F%	3.0mØ	15 Ø	40ut	1.0 *			15 Ø						NAD			GGØ	PT2sØ
35#	PH242N♦	300m	25 †		6F%	6.0mØ	15 Ø	50ut	1.0 *			15 Ø						NAD			GGØ	PT2sØ
36#	PH243N♦	300m	25 †		6F%	15mØ	15 Ø	75ut	1.0 *			15 Ø						NAD			GGØ	PT2sØ
37	FF409♦	300m	30 †		6M§	5.0mØ	15 Ø	144ut	1.0 *	F		15 Ø	25n		100m	1.3m		NAD	JFET		GG	PT2rØ
38	FF411♦	300m	30 †		6M§	5.0mØ	15 Ø	144ut	1.0 *	F		15 Ø	25n		100m	1.3m		NAD	JFET		GG	PT18hØ
39	FF412♦	300m	30 †		6M§	5.0mØ	15 Ø	144ut	1.0 *	F		15 Ø	25n#		100m	1.0m		NAD	JFET		GG	PT2rØ
40	FF413♦	300m	30 †		6M§	5.0mØ	15 Ø	144ut	1.0 *	F		15 Ø	25n#		100m	1.0m		NAD	JFET		GG	PT18hØ
41#	MEL31	300m	30	50m	58§	50n	5.0	10u	2.0m			5.0	4.0u#	800n	350m	500u	2.0m	NAD				PT56bØ
42#	BPX25	300m	32	50m	5C*	1.0u	24	2.5m	1.0k$	G		24	1.8u#	800n				NAD			AD	PT2Ø
43#	BPX29	300m	32	50m	5C*	1.0u	24	250u	1.0k$	G		24	2.4u#	800n				NAD			AD	PT18Ø
44#	BPY62I	300m	32	100m	5C§	100n	25	5.0	20m	C		5.0	10u	800n	300m	1.0m	5.0m	NAD			AD	PT2pØ
45#	BPY62II	300m	32	100m	5C§	100n	25	9.0	20m	C		5.0	10u	800n	300m	1.0m	5.0m	NAD			AD	PT2pØ
46#	BPY62III	300m	32	100m	5C§	100n	25	14	20m	C		5.0	10u	800n	300m	1.0m	5.0m	NAD			AD	PT2pØ
47#	MEL32	300m	40	50m	58§	50n	5.0	30u	2.0m			5.0	4.0u#	800n	350m	500u	2.0m	NAD				PT56bØ
48#	BP103I	300m	100	100m	5C§	100n	30	700u	20m	C		5.0	10u	850n	190m	2.5m	5.0m	NAD			AD	PT34bØ
49#	BP103II	300m	100	100m	5C§	100n	30	1.1m	20m	C		5.0	10u	850n	160m	2.5m	5.0m	NAD			AD	PT34bØ
50#	BP103III	300m	100	100m	5C§	100n	30	1.8m	20m	C		5.0	10u	850n	150m	2.5m	5.0m	NAD			AD	PT34bØ
51#	BP103IV	300m	100	100m	5C§	100n	30	2.8m	20m	C		5.0	10u	850n	150m	2.5m	5.0m	NAD			AD	PT34bØ
52#	BPX38I	330m	50	50m	5H§	200n	25	1.6m	20m	C		5.0	5.0u	870n	175m	2.0m	5.0m	NAD			AD	PT18fØ
53#	BPX38II	330m	50	50m	5H§	200n	25	2.5m	20m	C		5.0	6.0u	870n	175m	2.0m	5.0m	NAD			AD	PT18fØ
54#	BPX38III	330m	50	50m	5H§	500n	25	4.5m	20m	C		5.0	8.0u	870n	160m	2.0m	5.0m	NAD			AD	PT18fØ
55#	BPX38IV	330m	50	50m	5H§	500n	25	7.0m	20m	C		5.0	12u	870n	140m	2.0m	5.0m	NAD			AD	PT18fØ
56#	BPX43I	330m	50	100m	5H§	200n	25	9.0m	20m	C		5.0	5.0u	870n	175m	2.0m	5.0m	NAD			AD	PT2pØ
57#	BPX43II	330m	50	100m	5H§	200n	25	14m	20m	C		5.0	6.0u	870n	175m	2.0m	5.0m	NAD			AD	PT2pØ
58#	BPX43III	330m	50	100m	5H§	500n	25	22m	20m	C		5.0	8.0u	870n	160m	2.0m	5.0m	NAD			AD	PT2pØ
59#	BPX43IV	330m	50	100m	5H§	500n	25	35m	20m	C		5.0	12u	870n	140m	2.0m	5.0m	NAD			AD	PT2pØ
60#	MAL100	360m	30	50m	5F%	100n	5.0	200u	2.0m	C		5.0	5.0u*	800n				NAD			AD	PT34e
61#	MEL100	360m	30	50m	5F%	100n	5.0	200u	2.0m	C		5.0	5.0u*	800n				NAD			AH	PT56b
62#	BPW13A	375m	32	50m	5H%	100n	20	200u	1.0k$	C	735n	32	1.6u#	780n	300m	100u	1.0k$	NAD			ADØ	PT18Ø
63#	BPW13B	375m	32	50m	5H%	100n	20	300u	1.0k$	C	735n	32	1.6u#	780n	300m	100u	1.0k$	NAD			ADØ	PT18Ø
64#	BPW13C	375m	32	50m	5H%	100n	20	500u	1.0k$	C	735n	32	1.6u#	780n	300m	1.0m	1.0k$	NAD			ADØ	PT18Ø
65#	BPW14A	375m	32	50m	5H%	100n	20	2.0m	1.0k$	C	735n	32	1.6u#	780n	300m	100u	1.0k$	NAD			ADØ	PT2bØ
66#	BPW14B	375m	32	50m	5H%	100n	20	3.0m	1.0k$	C	735n	32	1.6u#	780n	300m	1.0m	1.0k$	NAD			ADØ	PT2bØ
67#	BPW14C	375m	32	50m	5H%	100n	20	5.0m	1.0k$	C	735n	32	1.6u#	780n	300m	1.0m	1.0k$	NAD			ADØ	PT2bØ
68	FF102♦	400m	15 †		6M§	5.0mØ	10 Ø	15ut	1.0 *	F		10 Ø	30n#					NAD	JFET		GJ	PT9cØ
69	FF108♦	400m	15 †		6M§	5.0mØ	10 Ø	15ut	1.0 *	F		10 Ø	30n#					NAD	JFET		GJ	PT46bØ
70	FF626♦	400m	15 †		6M§	8.0mØ	10 Ø	800ut	1.0 *	F		10 Ø	30n#					NAD	JFET		GJ	PT9cØ
71	FF627♦	400m	15 †		6M§	8.0mØ	10 Ø	800ut	1.0 *	F		10 Ø	30n#					NAD	JFET		GJ	PT46bØ
72	HEPP0001-RT	400m*	30		6M§	100n	20 *	400u	1.0m	E		20 *	2.0u#	800n				NAD			AD	PT2Ø
73	MRD3050	400m	30		6M§	100n	20 *	100u	5.0m	E		20 *	2.0u#	800nt				NAD			ADØ	PT2Ø
74	MRD3051	400m	30		6M§	100n	20 *	200u	5.0m	E		20 *	2.0u#	800nt				NAD			ADØ	PT2Ø
75	MRD3054	400m	30		6M§	100n	20 *	500u	5.0m	E		20 *	2.0u#	800nt				NAD			ADØ	PT2Ø
76	MRD3055	400m	30		6M§	100n	20 *	1.5m	5.0m	E		20 *	2.0u#	800nt				NAD			ADØ	PT2Ø
77	MRD3056	400m	30		6M§	100n	20 *	2.0m	5.0m	E		20 *	2.0u#	800nt				NAD			ADØ	PT2Ø
78	FPT540	600m	12	50m	5F*	100n	5.0	8.0m*	1.0m	C		5.0	18u#	900n	550m	1.0m	2.0m	NAD			AD	PT14cØ
79	FPT540A	600m	12	50m	5F*	100n	5.0	10m*	1.0m	C		5.0	18u#	900n	550m	1.0m	2.0m	NAD			AD	PT14cØ
80	FPT550	600m	12	50m	5F*	100n	5.0	8.0m*	5.0m	C		5.0	18u#	900n	550m	1.0m	2.0m	NAD			AD	PT32kØ
81	FPT550A	600m	12	50m	6F§	100n	5.0	8.0m*	5.0m	C		5.0	18u#	900n	550m	1.0m	2.0m	NAD			AD	PT32kØ
82	STPT260	600m*	30		5F*	25n	30	500u	20m	E		5.0	1.5u#	850n	300m		20m	N			AD	PT32bØ
83	FPT520	600m	30	50m	5F*	100n	5.0	5.0m*	1.0m	C		5.0	8.0u#	900n	330m	500u	2.0m	NAD			AD	PT14cØ
84	FPT520A	600m	30	50m	5F*	100n	5.0	6.0m*	1.0m	C		5.0	8.0u#	900n	330m	500u	2.0m	NAD			AD	PT14cØ
85	FPT530	600m	30	50m	5F*	100n	5.0	3.0m*	5.0m	C		5.0	8.0u	900n	330m	500u	20m	NAD			AD	PT32kØ
86	FPT530A	600m	30	50m	5F*	100n	5.0	4.0m*	5.0m	C		5.0	8.0u#		330m	500u	2.0m	NAD			AD	PT32kØ
87	BPW36	600m	45	50m	XF§	100n	10	6.0m	10m	E		5.0	8.0u#		400m	10m		NAD			AD	PT32q
88	BPW37	600m	45	50m	XF§	100n	10	3.0m	10m	E		5.0	8.0u#		400m	10m		NAD			AD	PT32q
89	FPT500	600m	45	50m	6F§	100n	5.0	1.0m*	1.0m	C		5.0	3.0u#	900n	330m	500u	2.0m	NAD			AD	PD27Ø
90	FPT500A	600m	45	50m	5F*	100n	5.0	2.0m*	1.0m	C		5.0	3.0u#	900n	330m	500u	2.0m	NAD			AD	PT14cØ
91	FPT510	600m	45	50m	5F*	100n	5.0	500u*	5.0m	C		5.0	3.0u#	900n	330m	500u	2.0m	NAD			AD	PT14cØ
92	FPT510A	600m	45	50m	5F*	100n	5.0	1.0m*	5.0m	C		5.0	3.0u#		330m	500u	2.0m	NAD			AD	PT32kØ
93	L14G1	600m	45	50m	6F§	100n	10	6.0m	10m	E		5.0	5.0u		400m	10m		NAD			AD	PT2gØ
94	L14G2	600m	45	50m	6F§	100n	10	3.0m	10m	E		5.0	5.0u		400m	10m		NAD			AD	PT2gØ
95	L14G3	600m	45	50m	6F§	100n	10	12m	10m	E		5.0	5.0u		400m	10m		NAD			AD	PT2gØ
96#	PN205	100	20	30m	28*	500n	10	200u	2.0 $	C	800n	10	100u*	800n	1.5	1.0m	100 $	N			AB	PD212☐
97#	PN105	100	30	20m	4C*	100n	10	300u	100 $	C	800n	10	5.0u*	800n	400m	1.0m	1.0k$	N			AB	PT14aØ
98#	PN106	100	30	20m	4C*	100n	10	300u	100 $	C	800n	10	5.0u*	800n	400m	1.0m	1.0k$	N			AD	PT79Ø
99#	PN107	150	20	30m	4C*	2.0u	10	15m	100 $	C	900n	10	6.0u*	900n	600m	1.0m	500 $	N			AB	PT14aØ
100#	PN108	150	20	30m	4C*	2.0u	10	15m	100 $	C	900n	10	6.0u*	900n	600m	1.0m	500 $	N			AD	PT79Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

12. SENSOR: PHOTODARLINGTON

IN ORDER OF: (1)PWR DISS-Pcase (2) MAX. VCEO (3) MAX. IC & (4) TYPE No.

LINE No.	4 TYPE No.	MAX. RATINGS @25°C 1 PWR. DISS. Pcase (W)	2 C/E VOLT VCEO (V)	3 COL CURR IC (A)	TEMP RNG. CODE - +	MAX. DARK CURR.@25°C ID (A)	VCE (V)	MIN. LIGHT CURR. IL (A)	TEST CONDITIONS Ee (W/cm2)	S R C	λ (m)	VCE (V)	RESP. TIME (S)	PEAK WAVE-LNTH. λp (m)	MINIMUM DC CURRENT GAIN hFE	VCE (V)	IC (A)	POLAR	MTL FEAT-URES	LEAD CODE	DRAWING Ø-RND. ☑-RECT Δ-STRIP *-CHIP
1	SD1410-1		10 Ø		67*	1.0u	10	600u	200u	E		5.0	15u#	850n				AD		DB☑	PT40a☑
2	SD2410-1		10 Ø		67*	1.0u	10	1.0m	1.0m	E		5.0	15u#	850n				AD		DB	PT6bØ
3	SD3410-1		10 Ø		67*	1.0u	10	600u	2.0m	E		5.0	15u#	850n				AD		ES	PT39aØ
4	SD3410-1B		10 Ø		67*	1.0u	10	600u	2.0m	E		5.0	15u#	850n				AD		DE	PT39Ø
5	SD5410-1		10 Ø		67*	1.0u	10	2.0m	200u	E		5.0	15u#	850n				AD		ES	PT38aØ
6	SD5410-1B		10 Ø		67*	1.0u	10	2.0m	200u	E		5.0	15u#	850n				AD		DE	PT38Ø
7	STPD1510-1		10 Ø		67*	1.0u	10	600u	200u	E		5.0	15u#	820n				AD		AB	PT40Ø
8	STPD1610-1		10 Ø		67*	1.0u	10	1.0m	1.0m	E		5.0	15u#	820n				AD		AB	PT6dØ
9	STPD1810-1		10 Ø		67*	1.0u	10	600u	2.0m	E		5.0	15u#	820n				AD		AD	PT41Ø
10	STPD2010-1		10 Ø		67*	1.0u	10	2.0m	200u	E		5.0	15u#	820n				AD		AD	PT38Ø
11	OP301		15			250n	10	800u	1.0m			5.0	20u#					AD		AB	PT6bØ
12	OP302		15			250n	10	1.8m	1.0m			5.0	20u#					AD		AB	PT6bØ
13	OP303		15			1.0u	10	3.6m	1.0m			5.0	20u#					AD		AB	PT6bØ
14	OP304		15			1.0u	10	7.0m	1.0m			5.0	20u#					AD		AB	PT6bØ
15	OP305		15			1.0u	10	14m	1.0m			5.0	20u#					AD		AB	PT6bØ
16	SD1410-2		15 Ø		67*	250n	10	2.0m	200u	E		5.0	25u#	850n				AD		DB☑	PT40a☑
17	SD1410-3		15 Ø		67*	250n	10	4.0m	200u	E		5.0	75u#	850n				AD		DB☑	PT40a☑
18	SD1410-4		15 Ø		67*	250n	10	8.0m	200u	E		5.0	125u#	850n				AD		DB☑	PT40a☑
19	SD2410-2		15 Ø		67*	250n	10	3.0m	1.0m	E		5.0	25u#	850n				AD		DB	PT6bØ
20	SD2410-3		15 Ø		67*	250n	10	6.0m	1.0m	E		5.0	75u#	850n				AD		DB	PT6bØ
21	SD3410-2		15 Ø		67*	250n	10	2.0m	2.0m	E		5.0	25u#	850n				AD		ES	PT39aØ
22	SD3410-2B		15 Ø		67*	250n	10	2.0m	2.0m	E		5.0	25u#	850n				AD		DE	PT39Ø
23	SD3410-3		15 Ø		67*	250n	10	4.0m	2.0m	E		5.0	75u#	850n				AD		ES	PT39aØ
24	SD3410-3B		15 Ø		67*	250n	10	4.0m	2.0m	E		5.0	75u#	850n				AD		DE	PT39Ø
25	SD3410-4		15 Ø		67*	250n	10	8.0m	2.0m	E		5.0	125u#	850n				AD		ES	PT39aØ
26	SD3410-4B		15 Ø		67*	250n	10	8.0m	2.0m	E		5.0	125u#	850n				AD		DE	PT39Ø
27	SD5410-2		15 Ø		67*	250n	10	4.0m	200u	E		5.0	25u#	850n				AD		ES	PT38aØ
28	SD5410-2B		15 Ø		67*	250n	10	4.0m	200u	E		5.0	25u#	850n				AD		DE	PT38Ø
29	SD5410-3		15 Ø		67*	250n	10	8.0m	200u	E		5.0	75u#	850n				AD		ES	PT38a
30	SD5410-3B		15 Ø		67*	250n	10	8.0m	200u	E		5.0	75u#	850n				AD		DE	PT38Ø
31	STPD1510-2		15 Ø		67*	250n	10	2.0m	200u	E		5.0	25u#	820n				AD		AB	PT40Ø
32	STPD1510-3		15 Ø		67*	250n	10	4.0m	200u	E		5.0	75u#	820n				AD		AB	PT40Ø
33	STPD1510-4		15 Ø		67*	250n	10	8.0m	200u	E		5.0	125u#	820n				AD		AB	PT40Ø
34	STPD1610-2		15 Ø		67*	250n	10	3.0m	1.0m	E		5.0	25u#	820n				AD		AB	PT6dØ
35	STPD1610-3		15 Ø		67*	250n	10	6.0m	1.0m	E		5.0	75u#	820n				AD		AB	PT6dØ
36	STPD1810-2		15 Ø		67*	250n	10	2.0m	2.0m	E		5.0	25u#	820n				AD		AD	PT41Ø
37	STPD1810-3		15 Ø		67*	250n	10	4.0m	2.0m	E		5.0	75u#	820n				AD		AD	PT41Ø
38	STPD1810-4		15 Ø		67*	250n	10	8.0m	2.0m	E		5.0	125u#	820n				AD		AD	PT41Ø
39	STPD2010-2		15 Ø		67*	250n	10	4.0m	200u	E		5.0	25u#	820n				AD		AD	PT38Ø
40	STPD2010-3		15 Ø		67*	250n	10	8.0m	200u	E		5.0	75u#	820n				AD		AD	PT38Ø
41	OPC300		30 Ø	100u		250n	10	800u	1.0m	E		5.0		850n				NAD		EQ	PT64*
42	OPC300L		30 Ø	100u		250n	10	1.0m	1.0m	E		5.0		850n				NAD		EQ$	PT65*
43	OP300	50m*	15		67*	250n	10	800u	1.0m	E		5.0	20u#	850n				NAD		AB	PT6bØ
44	OP530	50m	15 Ø	47 *		100n	10	500u	500u	E		5.0	20u#	850n				NAD		AB	PT31Ø
45	VTA3122	50m*	30	25m	6M	3.0n†	10	4.0m	200u	C		5.0	100u#	775n				N		DB	PT11Ø
46	CLR3180	50m*	40		6F§	100n	10	2.0m	200u	C		5.0	100u#					NAD			PT15Ø
47	VTA3121	50m*	40	25m	6M	3.0n†	10	1.0m	200u	C		5.0	100u#	775n				N		DB	PT11Ø
48	CLR5101	50m*	40	200m	6F§	100n	10	2.0m	200u	C		5.0	150u#					NAD			PT68Ø
49	CLR5101-2	50m*	40	200m	6F§	100n	10	2.0m	200u	C		5.0	150u#					NAD			PT68aØ
50	107-2	100m	20	30m	07*	10u	5.0	2.0m	2.0m	E		5.0 *	100u#					N		ES	PT69☑
51#	PN202	100m*	20	30m	28	500n	10	400u		C		10	100u	800n				NAD		AB	PT74
52#	PN202S	100m*	20	30m	28	500n	10	200u		C		10	150u	800n				NAD		AB	PT47Ø
53#	PH101	100m*	20	50m	X8§§	500n	15	40u	§	C		2.0		850n				NAD		AA	PT60aØ
54	107-3	100m	25	100m	07*	10u	5.0	10m	2.0m	E		5.0 *	20u#					N		ER	PT69☑
55	VTA9313	100m*	30	50m	5A	30n†	20	8.0m	200u	C		5.0	300u#	775n				N		DA	PT13Ø
56	VTA9323	100m*	30	50m	5A	30n†	20	2.0m	200u	C		5.0	100u#	775n				N		DA	PT13Ø
57#	ZMX150	100m	35			1.0u				C			400u					AD			PT35Ø
58#	ZMX132	100m	35	250m§	8*	1.0u	5.0	200u	10 *	C		10	400u#	850n						DG	PT33☑
59#	ZMX133	100m	35	250m§	8*	1.0u	5.0	200u	10 *	C		10	400u#	850n						DG	PT33☑
60	VTA9312	100m*	40	50m	5A	30n†	20	3.0m	200u	C		5.0	300u#	775n				N		DA	PT13Ø
61	VTA9322	100m*	40	50m	5A	30n†	20	750u	200u	C		5.0	100u#	775n				N		DA	PT13Ø
62	VTA9311	100m*	50	50m	5A	30n†	20	1.0m	200u	C		5.0	300u#	775n				N		DA	PT13Ø
63	VTA9321	100m*	50	50m	5A	30n†	20	250u	200u	C		5.0	100u#	775n				N		DA	PT13Ø
64#	6B82	100m	60	50m	5C§	10n†	5.0	5.0m	100u		940n	5.0	500 #	850n	200 †	1.3	50m	NAD		EP	PT34c
65	HEPP1001-RT	200m*	12		6A§	100n	12	500u	2.0m	E		5.0	250n#	800n				NAD		AC	PT8Ø
66	MRD14B	200m	12		6A§	100n	12	500u	2.0m	E			250u#	1.0u				NAD		DH	PT1Ø
67	2N5777	200m*	25	250m	6A§	100n	12	500u	2.0m	E		5.0	250u#	850n	1.0k	5.0	2.0m	NAD		AC	PT1Ø
68	2N5779	200m*	25	250m	6A§	100n	12	2.0m	2.0m	E		5.0	250u#	850n	2.0k	5.0	2.0m	NAD		AC	PT1Ø
69	FPT400	200m	30	50m	58*	100n	5.0	3.0m	1.0m	C		5.0	100u	900n	5.0k†	5.0		NAD		AD	PT37Ø
70	FPT410	200m	30	50m	58*	100n	5.0	2.0m	1.0m	C		5.0	100u	900n	5.0k†	5.0		NAD		AD	PT36Ø
71#	MEL11	200m*	30	150m	5A%	100n	5.0	500u	2.0m	E		5.0	100u#	900n	10k			AD		AD	PT21Ø
72#	ZMX140	200m	35		8*	25n	5.0	500u	10 *	C		10 *	250u#	850n				NAD		DG	PT34Ø
73#	ZM100	200m	35	250m§	5C*	1.0u	24	800u	2.0 *	C			400u#	850n				AD		AD	PT9aØ
74#	MEL12	200m*	40	150m	5A%	100n	5.0	1.0m	2.0m	E		5.0	100u#	900n	10k			AD		AD	PT21Ø
75	2N5778	200m*	40	250m	6A§	100n	12	500u	2.0m	E		5.0	250u#	850n	1.0k	5.0	2.0m	NAD		AC	PT1Ø
76	2N5780	200m*	40	250m	6A§	100n	12	2.0m	2.0m	E		5.0	250u#	850n	2.0k	5.0	2.0m	NAD		AC	PT1Ø
77	OP830	250m	15 Ø			1.0u	10	15m	500u	E		5.0	20u#	850n				NAD		ADØ	PT32eØ
78	OP830W	250m	15 Ø			1.0u	10	4.0m	500u	E		5.0	20u#	850n				NAD		AD	PT18iØ
79	VTA1023	250m*	30	50m	6M	10n†	20	2.0m	200u			5.0	100u#	775n				N		DG	PT12aØ
80	VTA1122	250m*	30	50m	6M	3.0n†	20	3.0m	200u	C		5.0	100u#	775n				N		DG	PT12Ø
81	VTA1013	250m*	30	200m	6M	10n†	20	8.0m	200u			5.0	300u#	775n				N		DG	PT12aØ
82	VTA1112	250m*	30	200m	6M	3.0n†	20	15m	200u			5.0	300u#	775n				N		DG	PT12Ø
83	CLCR5590	250m*	35	100u	5F§	100n	10	10m	5.0m	C		5.0	100u#		5.0k	5.0	10m				PT66*
84	CLT2164	250m*	40			100n	10	7.0m	5.0m	C		5.0									PTØ
85	CLT2165	250m*	40			100n	10	15m	5.0m	C		5.0									PTØ
86	MRD360	250m	40		6M§	100n	10	12m	2.0m	E		5.0 *	40u#					NAD		DG	PT2aØ
87	MRD370	250m	40		6M§	100n	10	3.0m	2.0m	E		5.0 *	15u#					NAD		DG	PT2aØ
88	VTA1022	250m*	40	50m	6M	3.0n†	20	750u	200u			5.0	100u#	775n				N		DG	PT12aØ
89	VTA1121	250m*	40	50m	6M	3.0n†	20	1.0m	200u			5.0	100u#	775n				N		DG	PT12Ø
90	CLR2050	250m*	40	200m	6F§	100n	10	600u	200u	C		5.0	100u#					NAD		ADØ	PT18Ø
91	CLR2060	250m*	40	200m	6F§	100n	10	1.4m	200u	C		5.0	100u#					NAD		ADØ	PT18Ø
92	CLR2170	250m	40	200m	6F§	100n	10	2.0m	200u	C		5.0	100u#	850n				NAD		ADØ	PT32dØ
93	CLR2180	250m	40	200m	6F§	100n	10	4.0m	200u	C		5.0	100u#	850n				NAD		ADØ	PT32dØ
94	VTA1012	250m*	40	200m	6M	3.0n†	20	3.0m	200u			5.0	300u#	775n				N		DG	PT12aØ
95	VTA1111	250m*	40	200m	6M	3.0n†	20	4.0m	200u			5.0	300u#	775n				N		DG	PT12Ø
96	MFOD300▼	250m*	40	250m	5H§	100n	10		56m$				60u#	810n				NAD		AD	PT2Ø
97	VTA1021	250m*	50	50m	6M	3.0n†	20	250u	200u			5.0	100u#	775n				N		DG	PT12aØ
98	VTA1011	250m*	50	200m	6M	3.0n†	20	1.0m	200u			5.0	300u#	775n				N		DG	PT12aØ
99#	BPW30	300m	32	25m	5H%	200n	20	1.0m	10 $	C		5.0		780n				NAD		ADØ	PT2Ø
100#	BPX99	330m	32	500m	5C*	200n	20	3.0m	100 $	C	750n		80u#	800n				NAD		ADØ	PT2Ø
101	BPW38	600m	25	200m	XF§	100n	12	3.0m	200u	E		5.0	300u#	850n				NAD		DG	PT32g
102	L14F1	600m	25	200m	6F§	100n	12	3.0m	200u	E		5.0	300u#	850n				NAD		AD	PT2gØ
103	L14F2	600m	25	200m	6F§	100n	12	1.0m	200u	E		5.0	300u#	850n				NAD		AD	PT2gØ
104	FPT560	600m	30	125m	5F*	100n	5.0	10m	1.0m	C		5.0	100u#	900n	5.0k†	5.0		NAD		AD	PT14cØ
105	FPT570	600m	30	125m	5F*	100n	5.0	1.0m	1.0m	C		5.0	100u#	900n				NAD		AD	PT32kØ

13. SENSOR: PHOTOTHYRISTOR

IN ORDER OF: (1)MAX. IT(RMS) (2) TEMP-T.
(3) MAX. VDRM & (4) TYPE No.

LINE No.	4 TYPE No.	MAXIMUM RATINGS @ 25°C 1 IT(RMS) (A)	2 @ T (°C)	3 VDRM Δ-VRRM (V)	ITSM (A)	TEMP RNG. CODE - +	MIN. IRRADIANCE TO TRIGGER Ee W/cm2	SOUR CE	λ (m)	VAK (V)	MAX IDRM Δ-IRRM @VDRM @MAX T (A)	MAX. TURN OFF TIME tq (S)	IT (A)	MAX. IGT @ 25°C (A)	MAX. VGT @ 25°C (V)	MAX. IH @ 25°C (A)	MATER. & FEAT MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	PF30	150m	50A	30	5.0	6C*	10 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
2	PF30A	150m	50A	30	5.0	6C*	20 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
3	PF60	150m	50A	60	5.0	6C*	10 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
4	PF60A	150m	50A	60	5.0	6C*	20 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
5	PF100	150m	50A	100	5.0	6C*	10 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
6	PF100A	150m	50A	100	5.0	6C*	20 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
7	PF200	150m	50A	200	5.0	6C*	10 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
8	PF200A	150m	50A	200	5.0	6C*	20 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
9	PF300	150m	50A	300	5.0	6C*	75 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
10	PF300A	150m	50A	300	5.0	6C*	150 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
11	PF400	150m	50A	400	5.0	6C*	75 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
12	PF400A	150m	50A	400	5.0	6C*	150 *	E		10	500n$			25m☑	5.0 ☑	1.0m	AD	KG	PT18mØ
13#	PT701	200m	25A	400	2.0	2A	45m☑	B		6.0	1.0m			50u	600m†	1.0m	AD	KG	PT86Ø
14	L8U	1.6	25C	25	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
15	L9U	1.6	25C	25	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
16	L8F	1.6	25C	50	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
17	L9F	1.6	25C	50	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
18	L8A	1.6	25C	100	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
19	L9A	1.6	25C	100	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
20	L8G	1.6	25C	150	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
21	L9G	1.6	25C	150	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
22	L8B	1.6	25C	200	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
23	L9B	1.6	25C	200	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18bØ
24	L811U	1.6	75C	25	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
25	L911U	1.6	75C	25	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
26	L811F	1.6	75C	50	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
27	L911F	1.6	75C	50	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
28	L811A	1.6	75C	100	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
29	L911A	1.6	75C	100	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
30	L811G	1.6	75C	150	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
31	L911G	1.6	75C	150	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
32	L811B	1.6	75C	200	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ
33	L911B	1.6	75C	200	15	6A*	680u			6.0	100m	600n	1.0	220u	800m	560u	AD	KG	PT18cØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

14. SENSOR: PHOTOCIRCUIT (IC)

IN ORDER OF: (1) CKT. FUNCTION CODE (2)O/P VOLT-Vo (3)O/P IMPED-Zo & (4)TYPE No.

LINE No.	4 TYPE No.	CIRCUIT 1 FUN-CT	CIRCUIT 1 SENS ELEM CODE	OUTPUT 2 VOLT Vo @25°C (V)	OUTPUT 3 IMPED. @ 25°C Zo (Ω)	OUTPUT 3 IMPED. @ 25°C f (Hz)	TEMP RNG. CODE - +	RATED SUP. VOLT ΔVs Pk-Pk (V)	RATED SUP. CURR. ΔIs Pk-Pk (A)	DESCRIPTION	SCHEMATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	539-01-1	30-10					07*	30	3.0m	Optical Det;Diode Re 30mV/uW;Diode Area 0.8mm sq	BE2	PH2Ø
2	539-01-5	30-10					07*	30	3.0m	Optical Det;Diode Re 30mV/uW;Diode Area 5.0mm sq	BE2	PH2aØ
3	539-003-1	30-10					07*	30	3.0m	Optical Det;Diode Re 30mV/uW;Diode Area 0.8mm sq	BE2	PH2Ø
4	539-003-5	30-10					07*	30	3.0m	Optical Det;Diode Re 30mV/uW;Diode Area 5.0mm sq	BE2	PH2aØ
5	539-005-1	30-10					07*	30	3.0m	Optical Det;Diode Re 30mV/uW;Diode Area 0.8mm sq	BE2	PH2Ø
6	539-005-5	30-10					07*	30	3.0m	Optical Det;Diode Re 30mV/uW;Diode Area 5.0mm sq	BE2	PH2aØ
7♦	CS-401	30-10					25*	4.5		Optical Det;Sen 350uA/mW/cm sq;Active Area 1.0mm sq	BE32	PH139☑
8♦	CS-450	30-10						4.5	20m☑	Optical Det/SW,Sensitivity 80fc-ms at 10.5fc	BE33	PH139☑
9♦#	LDH2J	30-10								2-Elem Hyb;250nm NEP 40pW/Hz 1/2,Sens 3mV/uW/sq cm	♦	PH143Ø
10♦#	LDH2K	30-10								2-Elem Hyb;900nm NEP 2pW/Hz 1/2,Sens 50mV/uW/sq cm	♦	PH143Ø
11♦#	LDH2L	30-10								2-Elem Hyb;1064nm NEP 4pW/Hz 1/2,Sens 26mV/uW/sq cm	♦	PH143Ø
12	MDA7705	30-10						30 ☑		Responsivity 12mV/uW at 905nm;BW11MHz;tr30ns	BE37	PH118aØ
13	MDA7705SMA	30-10						45 △		905nm pk typ;FO;Re12kV/W;BW 11MHz;NEP 2.0pW/Hz 1/2	BE37	PH118c
14	MDA7708	30-10						30 ☑		Responsivity 4.0mV/uW at 905nm;BW40MHz;tr9ns	BE37	PH118aØ
15	MDA7708SMA	30-10						45 △		905nm pk typ;FO;Re4.0kV/W;BW 40MHz;NEP 3.0pW/Hz 1/2	BE37	PH118c
16	MDA7709SMA	30-10						45 △		F.O.;TIA;905nm pk;Re1.0kV/W;BW 100MHz;NEP 4pW/Hz1/2	BE37	PH118c
17	MDA7710	30-10						30 ☑		Responsivity 1.0mV/uW at 905nm;BW100MHz;tr4ns	BE37	PH118aØ
18#	OSI5JHGA	30-10					27	30 △	1.2m☑	Hyb Recvr;Min Responsivity 550mV/uW/Sq cm at 430nm		PH17jØ
19#	OSI5KHGA	30-10					27	30 △	1.2m☑	Hyb Recvr;Min Responsivity 300mV/uW/Sq cm at 430nm		PH17jØ
20#	OSI5LHGA	30-10					27	30 △	1.2m☑	Hyb Recvr;Min Responsivity 2.3V/uW/Sq cm at 900nm		PH17jØ
21#	OSI5E	30-10		5.0			07	40 △	1.3m☑	Responsivity 20mV/lux Typ,BW 3.0kHz min		PH17jØ
22	DDK528P	30-10		20	40M			12 ☑	5.0m	Photo Det;Responsivity 75mV/uW;Rise Time 15ns	BE22	PH76☑
23	MDA431SMA	30-10		50 Ø	0.0		27	15 ☑	8.0m☑	905nm pk typ;FO;Re52kV/W;BW 1.0MHz NEP3.0pW/Hz 1/2	BE37a	PH118b
24	MDA435BNC	30-10		50 Ø	0.0		27	15 ☑	8.0m☑	905nm pk typ;FO;Re10.5kV/W;BW 5.0MHz;NEP5.0pW/Hz1/2	BE37a	PH118b
25	MDA435SMA	30-10		50 Ø	0.0		27	15 ☑	8.0m☑	905nm pk typ;FO;Re10.5kV/W;BW 5.0MHz;NEP5.0pW/Hz1/2	BE37a	PH118b
26	MDA438SMA	30-10		50 Ø	0.0		27	15 ☑	8.0m☑	905nm pk typ;FO;Re3.5kV/W;BW 15MHz;NEP 7.0pW/Hz 1/2	BE37a	PH118b
27	R7500	30-10		50				40 ☑	15m☑	Receiver;Responsivity 10mV/uW at 905nm;tr60ns	BE39	
28	R7550	30-10		50				45 ☑	15m☑	Receiver;Responsivity 160mV/uW at 905nm;tr60ns	BE38	
29	R7800	30-10		50				40 ☑	15m☑	Receiver;Responsivity 3.0mV/uW at 905nm;tr20ns	BE39	
30	UDT600	30-10		50			2A*	30	5.0m	Responsivity (850n) .55 max A/W	BE16a	PH70Ø
31	HAV4000	30-10		80			07*	30	2.2m	WL350-1150nm,NEP(900,20,1)93fW/Hz1/2	BE18	PH72☑
32	UDT450	30-10		100			2A*	30	3.0m	Responsivity (850n) .55 max A/W	BE16	PH70Ø
33	UDT500	30-10		100			78*	30	3.0m	Responsivity (850n) .3 typ A/W	BE16	PH71Ø
34	HAV1000	30-10		500			07*	30	3.4m	WL350-1150nm,NEP(900,20,1)111fW/Hz1/2;PV100	BE17	PH12aØ
35	HAV4000A	30-10		500			07*	30	2.2m	WL350-1150nm;NEP(900,20,1)93fW/Hz 1/2;PV444	BE18	PH72☑
36	HUV1000B	30-10		500			07*	30	3.4m	WL200-1150nm,NEP(900,20,1)87fW/Hz1/2;UV100	BE17	PH12aØ
37	HUV2000B	30-10		500				30	2.2m	WL200-1150nm;NEP(900,20,1)75fW/Hz 1/2		
38	HUV4000B	30-10		500			07*	30	2.2m	WL200-1150nm,NEP(900,20,1)72fW/Hz1/2;UV444	BE18	PH72☑
39	MDA431	30-10		500 Ø	0.0		27	15 ☑	8.0m☑	Responsivity 52mV/uW at 905nm;BW1.0MHz;Range 75dB	BE37a	PH118Ø
40	MDA435	30-10		500 Ø	0.0		27	15 ☑	8.0m☑	Responsivity 10.5mV/uW at 905nm;BW5.0MHz;Range 75dB	BE37a	PH118Ø
41	MDA438	30-10		500 Ø	0.0		27	15 ☑	8.0m☑	Responsivity 3.5mV/uW at 905nm;BW15MHz;Range 75dB	BE37a	PH118Ø
42	R7880	30-10		500 Ø	0.0			45 ☑	15m☑	Receiver;Responsivity 40mV/uW at 905nm;tr18ns	BE38	
43	R7900	30-10		500 Ø	0.0			40 ☑	15m☑	Receiver;Responsivity 2.0mV/uW at 905nm;tr6.0ns	BE39	
44	DDV325	30-10	1.5m	50	10M			16 ☑	12m	360-1150nm;Re 160mV/uW min;NEP(905nm)5.0pW/Hz 1/2	BE22	PH76☑
45	R1001	30-10	2.0 Ø					14 △	35m	Dig Rcvr;Resp(905nm):72mV/uW;Rate 1.0Mb/s max	BE28	PH110Ø
46	R1001SMA	30-10	2.0 Ø					14 △	35m	FO Dig Rcvr;Resp(905nm):72mV/uW;Rate 1.0Mb/s max	BE28	PH110aØ
47	R1101	30-10	2.0 Ø					14 △	35m	Dig Rcvr;Resp(905nm):36mV/uW;Rate 2.0Mb/s max	BE28	PH110Ø
48	R1101SMA	30-10	2.0 Ø					14 △	35m	FO Dig Rcvr;Resp(905nm):36mV/uW;Rate 2.0Mb/s max	BE28	PH110aØ
49	R1201	30-10	2.0 Ø					14 △	35m	Dig Rcvr;Resp(905nm):18mV/uW;Rate 4.0Mb/s max	BE28	PH110Ø
50	R1201SMA	30-10	2.0 Ø					14 △	35m	FO Dig Rcvr;Resp(905nm):18mV/uW;Rate 4.0Mb/s max	BE28	PH110aØ
51	C30818E	30-10	2.0 ☑	50 ☑			47*	12 ☑	6.0m☑	400nm-1100nm;50Mz BW Rec;Avalanche Detector	BE57	PH47
52	C30847E	30-10	2.0 ☑	50 ☑			47*	12 ☑	6.0m☑	400nm-1100nm;50Mz BW Rec;p-i-n Detector	BE57a	PH47
53	MHZ016	30-10	2.0	50			07*	15	20m	Pk WL 950nm;35MHz BW;Resp 30kV/W;SGD160	BE19	PH73a☑
54	MHZ018	30-10	2.0	50			07*	15	20m	Pk WL 950nm;35MHz BW;Resp 30kV/W;SGD100A	BE19	PH73☑
55	MHZ018Y	30-10	2.0	50			07*	15	20m	Pk WL 1.06um;40MHz BW;Resp 40kV/W;YAG100A	BE19	PH73☑
56	C30815	30-10	3.0	50			47*	24		600nm-1.2um;P-N Photodetector,hybrid Preamp	BE7	PH48Ø
57	C30816	30-10	3.0	50			47*	24		600nm-1.2um;P-N Photodetector,hybrid Preamp	BE7	PH48Ø
58#	OSI1JHSA	30-10	4.0	20			07	12 △	24m☑	UV Region,BW5.0MHz min,tr50ns max	BE40	PH85Ø
59#	OSI1KHSA	30-10	4.0	20			07	6.0 △	24m☑	Visible Region;Responsivity 5.0mV/uW/Sq cm,tr50ns	BE40	PH85Ø
60#	OSI1LHSA	30-10	4.0	20			07	16 △	24m☑	IR Region,BW5.0MHz min,tr50ns max	BE40	PH85Ø
61	IPL16A	30-10	7.3	800			28*	27	300u	520-930nm;Respons 220mV uW/cm sq;Freq 4.0kHz.	BE11	PH57Ø
62	IPL16B	30-10	7.3	800			28*	-27	300u	520-930nm;Respons 22mVuW-1cm sq;Freq 40kHz.	BE11	PH57Ø
63	IPL16C	30-10	7.3	800			28*	-27	300u	520-930nm;Respons 2.2mVuW-1cm sq;Freq 400kHz.	BE11	PH57Ø
64#	IS006	30-10	10				28*	10		.40-1.2um For Switch,Meter Relay;Intensity 120ftc☑	♦	PH34Ø
65#	IS007	30-10	10				27*	10		.40-1.1um For Camera;IL28uA☑ at 10ftc;ID5.0pAat1.0V	BE30	PH35Ø
66	509-01	30-10	10	100m	100		07*	20	4.0m☑	.35-1.12m;A,Resp 40kV/W.	BE1	PH2Ø
67	509-1	30-10	10	100m	100		07*	20	800u☑	.35-1.12m;A,Resp 400kV/W.	BE1	PH2Ø
68	509-10	30-10	10	100m	100		07*	20	800u☑	.35-1.12m;A,Resp 4.0mV/W.	BE1	PH2Ø
69	509-50	30-10	10	100m	100		07*	20	800u☑	.35-1.12m;A,Resp 20mV/W.	BE1	PH2Ø
70#	OSI5J	30-10	12	75	5.0k		07	30	1.3m☑	Hyb Recvr;Max Resp UV;tr30us;Re 30mV/uW at 253nm		PH17fØ
71#	OSI5K	30-10	12	75	5.0k		07	30	1.3m☑	Hyb Recvr;Max Resp Vis;tr30us;Re 60mV/uW at 425nm		PH17fØ
72♦#	OSI5KHSB	30-10	12	75	5.0k		07	30	1.3m☑	Hyb Recvr;Max Resp Vis;tr100ns;Re 2.2mV at 900nm		PH137Ø
73#	OSI5L	30-10	12	75	5.0k		07	30	1.3m☑	Hyb Recvr;Max Resp IR;tr30us;Re 150mV/uW at 1.0um		PH17fØ
74♦#	OSI5LHSB	30-10	12	75	5.0k		07	30	1.3m☑	Hyb Recvr;Max Resp IR;tr100ns;Re 2.5mV at 900nm		PH137Ø
75	HAD1000A	30-10	13	80			07*	30	4.2m	.35-1.15um;Dual FET Op Amp;Slew Rate 6V/us;2mHz G/B	BE5	PH12Ø
76#	IS106	30-10	15				28*	22 ☑		Light Switch;xp 750nm;P 170mw		PH115Ø
77#	IS206	30-10	15				28*	20 ☑		Light Switch;xp 750nm;P 170mw,ton 9.0us	BE34	PH115Ø
78	529-01-1	30-10	20					30	2.0m	Optical Det;Diode Re 600mA/W;Diode Area 0.8mm sq	BE2	PH2Ø
79	529-01-5	30-10	20					30	2.0m	Optical Det;Diode Re 600mA/W;Diode Area 5.0mm sq	BE2	PH2aØ
80	529-2-1	30-10	20					30	2.0m	Optical Det;Diode Re 600mA/W;Diode Area 0.8mm sq	BE2	PH2Ø
81	529-2-5	30-10	20					30	2.0m	Optical Det;Diode Re 600mA/W;Diode Area 5.0mm sq	BE2	PH2aØ
82	C30818	30-14		10			47*	12		400n-1.1um;Photodetector,Preamp		PH47Ø
83	C30819	30-14		10			47*	12		400n-1.1um;Photodetector,Preamp	♦	PH49☑
84	404♦	30-15		75			5C	30 △	7.0m	200nm-20um;Respons 11kV/W;Pin 500mW	BE42	
85	404CM♦	30-15		75			5C	30 △	7.0m	200nm-20um;Respons 100kV/W;Diam 2.0mm	BE43	
86▼	406	30-15		75			5C	15	100m☑	2.0um-15um;Response 425V/W;Diam 2.0mm	BE59	TO5
87▼	408	30-15		75			5C	15	2.0m	2.0um-15um;Response 60kV/W;Diam 2.0mm	BE60	TO5
88♦	P1-31	30-15		100			07	30 △	4.0m☑	Overall Response 50V/Wmin at 632nm;Area 0.8mm sq	BE47	PH123
89♦	P1-32	30-15		100			07	30 △	4.0m☑	Overall Response 25V/Wmin at 632nm;Area 3.1mm sq	BE47	PH123
90♦	P1-33	30-15		100			07	30 △	4.0m☑	Overall Response 25V/Wmin at 632nm;Area 7.1mm sq	BE47	PH123
91♦	P1-35	30-15		100			07	30 △	4.0m☑	Overall Response 13V/Wmin at 632nm;Area 2.0mm sq	BE47	PH123
92	P1-41	30-15		100			07	30 △	6.0m☑	FET;BW3.0MHz;Re 10kv/W at 632nm;Act Dia 1mm	BE47	PH123
93	P1-42	30-15		100			07	30 △	6.0m☑	FET;BW3.0MHz;Re 5kv/W at 632nm;Act Dia 2mm	BE47	PH123
94	P1-43	30-15		100			07	30 △	6.0m☑	FET;BW3.0MHz;Re 5kv/W at 632nm;Act Dia 3mm	BE47	PH123
95	P1-45	30-15		100			07	30 △	6.0m☑	FET;BW3.0MHz;Re 2.5kv/W at 632nm;Act Dia 5mm	BE47	PH123
96	LCP200T	30-15		150			28*	40 ☑		900nm-40um;Respons 244m/W;Pd 300mW;Rad 50mW	BE41	PH120Ø
97	L400	30-15		10k			27			Responsivity 600V/W min;Area 1 Sq mm,C20pF	BE46	PH121
98	T300	30-15		10k			24			2.0un-20un;Respons 2.4kV/W,C25pF	BE45	PH121
99	404VM♦	30-15		30k			5C	15	200u	200nm-20um;Respons 500V/W;Diam 2.0mm	BE44	
100	107-4	31-10					07*	5.0		VCEO 5.0V;IL 50mA at VCC 5V,H2mW/cm2	BE29	PH92☑
101	IPL15A1	31-10	250m				58*	24	1.1m	530-940nm;Pn 1.5mW cm-sq;Io 22mA;H 3%.	BE10	PH17aØ
102	IPL17A1	31-10	250m				58*	24	1.1m	530-940nm;Pn 2.3mW cm-sq;Vi -.80☑;Inpl 200uAØ	BE9	PH13aØ
103	IPL1500A1	31-10	250m				58*	-17	1.1m	530-940nm;Pn 2.3mW cm-sq;Io 29mA;H 1%.	BE10	PH17aØ
104	IPL1700A1	31-10	250m				58*	-17	1.1m	530-940nm;Pn 2.3mW cm-sq;Vi -.35☑;Inpl 170uAØ	BE9	PH13aØ
105	IPL1500A0	31-10	8.7				58*	-17	1.1m	530-940nm;Pn 2.3mW cm-sq;Io -4.4mA;H 1%.	BE10	PH17aØ
106	IPL1700A0	31-10	8.7				58*	-17	1.1m	530-940nm;Pn 2.3mW cm-sq;Vi -30Ø;Inpl -5uAØ	BE9	PH13aØ
107	IPL15A0	31-10	9.5				58*	24	1.1m	530-940nm;Pn 1.5mW cm-sq;Io -4.4mA;H 3%.	BE10	PH17aØ
108	IPL17A0	31-10	9.5				58*	24	1.1m	530-940nm;Pn 2.3mW cm-sq;Vi -3.0Ø;Inpl -5uAØ	BE9	PH13aØ
109	PS12	31-10	12 ☑				46*	12	1.1m	Photoswitch;Pn 750u-3.0mW cm-sq.	BE12	PH17cØ
110	PS24	31-10	12 ☑				46*	24	1.1m	Photoswitch;Pn 750u-3.0mW cm-sq.	BE12	PH17cØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

14. SENSOR: PHOTOCIRCUIT (IC)

IN ORDER OF: (1) CKT. FUNCTION CODE (2)O/P VOLT-Vo (3)O/P IMPED-Zo & (4)TYPE No.

LINE No.	4 TYPE No.	CIRCUIT 1 FUN-CT CODE	SENS ELEM	OUTPUT 2 VOLT Vo @25°C (V)	3 IMPED. @ 25°C Zo (Ω)	f (Hz)	TEMP RNG. CODE - +	RATED SUP. VOLT ΔVs Pk-Pk (V)	CURR. ΔIs Pk-Pk (A)	DESCRIPTION	SCHEMATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	OT100	31-12		4.0			07*	5.0	6.0m	Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH67Ø
2	OT102	31-12		4.0			07*	5.0	6.0m	Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH67Ø
3	OT104	31-12		4.0			07*	5.0	6.0m	Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH67Ø
4	OT106A	31-12		4.0			07*	5.0	6.0m	Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH67Ø
5	OT108	31-12		4.0			07*	5.0	6.0m	Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH67Ø
6	OT900	31-12		4.0			07*	5.0	6.0m	9 Elem;Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH68☑
7	OT906	31-12		4.0			07*	5.0	6.0m	9 Elem;Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH68☑
8	OT1200	31-12		4.0			07*	5.0	6.0m	12 Elem;Si PV Detector w/Hybrid AMP/Digitizer	BE15	PH69☑
9#	IS005	32-10		10			27*	10		Log Diode Vf 380mV at 10nA If,N Mos FET Output	BE35	PH35aØ
10#	IS008	32-10		10			27*	10		Log Diode Vf 380mV at 10nA If,N Mos FET Output	BE36	PH35aØ
11	CA3062	32-11					5C	7.5	5.5m	Photo Detector and Power Amp;Pk WL 725nm;tr 125us	BE25	PH83Ø
12#	QM805	32-11		10			5C%	10	5.0m	Optically Controlled Relaxation Osc/Time Delay Ckt	BE20	PH17e
13	H11F3	32-11		15 ☑	470	0.0	5A	60 §	200m§	Bilateral Analog FET;Isol 700Vrms;Pd 450mW	BE58	PH114b☑
14	H11F1	32-11		30 ☑	200	0.0	5A	60 §	200m§	Bilateral Analog FET;Isol 1060Vrms;Pd 450mW	BE58	PH114b☑
15	H11F2	32-11		30 ☑	330	0.0	5A	60 §	200m§	Bilateral Analog FET;Isol 1060Vrms;Pd 450mW	BE58	PH114b☑
16♦	P1-51	32-15			5.0k		07	24		FET;BW 10MHz;Re 100v/W at 632nm;Act Dia 1mm	BE48	PH123
17♦	P1-52	32-15			5.0k		07	24		FET;BW 10MHz;Re 50v/W at 632nm;Act Dia 2mm	BE48	PH123
18♦	P1-53	32-15			5.0k		07	24		FET;BW 10MHz;Re 50v/W at 632nm;Act Dia 3mm	BE48	PH123
19♦	P1-55	32-15			5.0k		07	24		FET;BW 10MHz;Re 25v/W at 632nm;Act Dia 5mm	BE48	PH123
20♦	P1-61	32-15			5.0k		07	24		FET;BW 70MHz;Re 100v/W at 632nm;Act Dia 1mm	BE48	PH123
21♦	P1-62	32-15			5.0k		07	24		FET;BW 70MHz;Re 50v/W at 632nm;Act Dia 2mm	BE48	PH123
22♦	P1-63	32-15			5.0k		07	24		FET;BW 70MHz;Re 50v/W at 632nm;Act Dia 3mm	BE48	PH123
23♦	P1-65	32-15			5.0k		07	24		FET;BW 70MHz;Re 25v/W at 632nm;Act Dia 5mm	BE48	PH123
24♦	P1-71	32-15			5.0k		07	24		FET;BW 100kHz;Re 900v/W at 632nm;Act Dia 1mm	BE48	PH123
25♦	P1-72	32-15			5.0k		07	24		FET;BW 100kHz;Re 200v/W at 632nm;Act Dia 2mm	BE48	PH123
26♦	P1-73	32-15			5.0k		07	24		FET;BW 100kHz;Re 90v/W at 632nm;Act Dia 3mm	BE48	PH123
27♦	P1-75	32-15			5.0k		07	24		FET;BW 100kHz;Re 25v/W at 632nm;Act Dia 5mm	BE48	PH123
28	TIED92	33-14		100m	2.0	20k	46	15	20m	700nm Pk;Re 300uV/nW;MOD BW 50MHz	BE6	PH62Ø
29	TIED93	33-14		100m	2.0	20k	46	15	20m	700nm Pk;Re 150uV/nW;MOD BW 50MHz	BE6	PH62Ø
30	TIED96	33-14		100m	2.0	20k	46	15	20m	800nm Pk;Re 230uV/nW;MOD BW 50MHz	BE6	PH62Ø
31	TIED97	33-14		100m	2.0	20k	46	15	20m	800nm Pk;Re 110uV/nW;MOD BW 50MHz	BE6	PH62Ø
32	TIED90	33-14		100m	4.0	20k	46	15	20m	700nm Pk;Re 610uV/nW;MOD BW 20MHz	BE6	PH62Ø
33	TIED91	33-14		100m	4.0	20k	46	15	20m	700nm Pk;Re 300uV/nW;MOD BW 20MHz	BE6	PH62Ø
34	TIED94	33-14		100m	4.0	20k	46	15	20m	800nm Pk;Re 470uV/nW;MOD BW 20MHz	BE6	PH62Ø
35	TIED95	33-14		100m	4.0	20k	46	15	20m	800nm Pk;Re 240uV/nW;MOD BW 20MHz	BE6	PH62Ø
36	IPL13	35-10		20			58*	27	1.0m	.50-1.0um Freq 100kpps max;Dark Outp 10pps.	BE8	PH17bØ
37	CS-132	37-*		300m			15*	4.5		Shutter Control;Battery Check;Low Light Indicator	BE54	PH131☑
38	CS-131	37-*		1.5			15*	4.5		Shutter Control;Battery Check;Low Light Indicator	BE54	PH131☑
39	CS-129	37-*		5.0			15*	5.0	8.0m☑	Shutter Control;Battery Check;Low Light Indicator	BE53a	PH131☑
40	CS-130	37-*		5.0			15*	5.0	8.0m☑	Shutter Control;Battery Check;Low Light Indicator	BE53	PH131☑
41▼	CS-180	37-*		5.0			27	2.2 ☑	2.5m☑	Aperture Control;Photo Resistor;Window Comparator		PH138☑
42♦	CS-127	37-*		11 Ø			27*	4.5 ☑	25m☑	Shutter Control;Battery Check;Low Light Indicator	BE52	PH141☑
43▼	CS-480	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind;Batt Test	BE61	PH139☑
44▼	CS-481	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind;Batt Test	BE61	PH139☑
45▼	CS-482	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind;Batt Test	BE61	PH139☑
46▼	CS-483	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind;Batt Test	BE61	PH139☑
47▼	CS-484	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind	BE61	PH139☑
48▼	CS-486	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind;Batt Test	BE61a	PH140☑
49▼	CS-487	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind;Batt Test	BE61a	PH140☑
50▼	CS-488	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind;Batt Test	BE61a	PH140☑
51▼	CS-489	37-10		5.0			26	4.8 ☑	14m☑	Aperture/Shutter Contr;Lo Lt Ind	BE61a	PH140☑
52	CS-460	37-10		12			25	4.5		Exposure Cont IC;Shutter Spd 1ms to 1Sec	BE50	PH130☑
53	CS-461	37-10		12			25	4.5		Exposure Cont IC;Shutter Spd 1ms to 66ms	BE50a	PH130☑
54	CS-462	37-10		12			25	4.5		Exposure Cont IC;Shutter Spd 1ms to 1Sec	BE50b	PH130☑
55	CS-463	37-10		12			25	4.5		Exposure Cont IC;Shutter Spd 1ms to 66ms	BE50c	PH130☑
56	CS-464	37-10		12			25	4.5		Exposure Cont IC;Shutter Spd 1ms to 66ms	BE50d	PH130☑
57♦	CS-402	38-10*		4.5			25	4.5		Photocurrent Proc;Linear/Threshold	BE51	PH139☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

15. SENSOR ARRAY: PHOTODIODE,PHOTOTRANSISTOR

IN ORDER OF: (1)TYPE SENSING ELEMENT (2)No. ELEM.(3)TOT. PWR.DISS.&(4)TYPE No.

LINE No.	4 TYPE No.	1 SENS-ING ELEMENT	2 NO. OF ELEM-ENTS	3 TOT. PWR. DISS. @ 25°C (W)	TEMP RNG. CODE	MAX. VOLT #-VR Δ-VCEO (V)	MAX. DARK CURRENT ID (A)	#-VR Δ-VCE (V)	MINIMUM LIGHT CURRENT IL #-RESP (A)	Ee (W/ cm2)	S R C	#-VR Δ-VCE (V)	CENTER SPACING (in)	RESP. TIME (S)	MATCH FACT -OR MIN/ MAX	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1#	LD2-0	DI	2			30 #	5.0nt	30 #					1.0m	15n#		AD		PA35Ø
2#	LD2-1	DI	2				5.0nt	30 #					1.9m					PA35Ø
3#	LD2-2	DI	2				5.0nt	30 #					1.9m					PA35Ø
4#	LD2-3	DI	2				5.0nt	30 #					1.9m					PA35Ø
5#	LD2-4	DI	2				5.0nt	30 #					1.9m					PA35Ø
6	NSL701-4A	DI	4		6F*	5.0 #	10u	1.5	300u	25m			100m	8.0u		AD		PA44Δ
7	NSL701-5A	DI	5		6F*	5.0 #	10u	1.5	300u	25m				8.0u		AD		PA44aΔ
8	NSL701-6A	DI	6		6F*	5.0 #	10u	1.5	300u	25m				8.0u		AD		PA44bΔ
9	NSL701-7A	DI	7		6F*	5.0 #	10u	1.5	300u	25m				8.0u		AD		PA44cΔ
10	NSL701-8A	DI	8		6F*	5.0 #	10u	1.5	300u	25m				8.0u		AD		PA44dΔ
11#	PD0291	DI	9		37*	6.0 #	100n	1.0 #	43n*		B		100m			AD	BF4	PA39☑
12#	PD0292	DI	9		37*	6.0 #	100n	1.0 #	43n*		B		100m			AD	BF4	PA40☑
13	NSL701-9	DI	9	500m		5.0 #	1.0u	1.0	300u	25m	E		100m	1.0u#		AD		
14	NSL701-9A	DI	9	500m	6F*	5.0 #	10u	1.5	300u	25m			100m	8.0u		AD		PA44eΔ
15#	PD0391N	DI	18		37*	6.0 #	100n	1.0 #	48n*		B		100m			AD	BF5	PA41☑
16#	PD0392N	DI	18		37*	6.0 #	100n	1.0 #	48n*		B		100m			AD	BF5	PA41a☑
17#	LD20-0	DI	20			30 #	20nt	30 #					1.0m	15n#		AD		PA36☑
18#	LD20-1	DI	20				20nt	30 #					1.9m					PA36Ø
19#	LD20-2	DI	20				20nt	30 #					1.9m					PA36Ø
20#	LD20-3	DI	20				20nt	30 #					1.9m					PA36Ø
21#	LD20-4	DI	20				20nt	30 #					1.9m					PA36Ø
22♦#	MD25-0	DI	25		27		70nt	30					3.9m	15n#		AD 5x5 Matrix		PA37
23♦#	MD25-1	DI	25		27		70nt	30 #					3.9m			5x5 Matrix		PA37☑
24♦#	MD25-2	DI	25		27		70nt	30 #					3.9m			5x5 Matrix		PA37☑
25♦#	MD25-3	DI	25		27		70nt	30 #					3.9m			5x5 Matrix		PA37☑
26♦#	MD25-4	DI	25		27		70nt	30 #					3.9m			5x5 Matrix		PA37☑
27♦#	MD100-0	DI	100		27		20nt	30					3.9m	15n#		AD 10x10 Matrix		PA38☑
28♦#	MD100-1	DI	100		27		20nt	30 #					3.9m			10x10 Matrix		PA38☑
29♦#	MD100-2	DI	100		27		20nt	30 #					3.9m			10x10 Matrix		PA38☑
30♦#	MD100-3	DI	100		27		20nt	30 #					3.9m			10x10 Matrix		PA38☑
31♦#	MD100-4	DI	100		27		20nt	30 #					3.9m			10x10 Matrix		PA38
32	TIL621	TR	1	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
33	TIL622	TR	2	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
34	LA202SN	TR	2	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18Δ
35	LA602SN	TR	2	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;PAPER TAPE RDR	BF3	PA18Δ
36	LA702SN	TR	2	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18Δ
37	LA802SN	TR	2	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18Δ
38#	BPX82	TR	2	200m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
39	TIL623	TR	3	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
40	LA203SN	TR	3	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18aΔ
41	LA603SN	TR	3	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18aΔ
42	LA703SN	TR	3	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18aΔ
43	LA803SN	TR	3	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18aΔ
44#	BPX83	TR	3	300m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
45	TIL624	TR	4	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
46	LA204SN	TR	4	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18bΔ
47	LA604SN	TR	4	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18bΔ
48	LA704SN	TR	4	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18bΔ
49	LA804SN	TR	4	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18bΔ
50#	BPX84	TR	4	400m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
51	TIL625	TR	5	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
52	LA205S	TR	5	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18cΔ
53	LA605S	TR	5	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18cΔ
54	LA705S	TR	5	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18cΔ
55	LA805S	TR	5	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18cΔ
56#	BPX85	TR	5	500m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
57	TIL626	TR	6	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
58	LA206S	TR	6	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18dΔ
59	LA606S	TR	6	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18dΔ
60	LA706S	TR	6	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18dΔ
61	LA806S	TR	6	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18dΔ
62#	BPX86	TR	6	600m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
63	TIL627	TR	7	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
64	LA207S	TR	7	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18eΔ
65	LA607S	TR	7	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18eΔ
66	LA707S	TR	7	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18eΔ
67	LA807S	TR	7	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18eΔ
68#	BPX87	TR	7	700m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
69	TIL628	TR	8	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
70	LA208	TR	8	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18fΔ
71	LA608	TR	8	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18fΔ
72	LA708	TR	8	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18fΔ
73	LA808	TR	8	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18fΔ
74#	BPX88	TR	8	800m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
75#	BPW26	TR	9				25n	5.0 Δ	2.0m	20m			.0787		.500	See CNY26		PA20Δ
76	OPA508	TR	9			25 Δ	100n	10 Δ	800u	20m		5.0 Δ	100m		.50	BC		PA23Δ
77	SA609	TR	9	1.19m	47§	25 Δ	100n	5.0 Δ	80u	2.0m	E	5.0 Δ	.100	40u	.650	AD Tape Reader		PA12☑
78	SA609A	TR	9	1.19m	47§	25 Δ	100n	5.0 Δ	80u	2.0m	E	5.0 Δ	.100	40u	.850	AD Tape Reader		PA12☑
79#	LSA13	TR	9	50m	6C	50 Δ	100n	30	2.0m	20m	E	5.0 Δ	100m		.50	AD 9 LS600		PA28a☑
80	TIL132	TR	9	50m	6C	50 Δ	100n	30	2.0m	20m	E	5.0 Δ	100m		.50	AD 9 LS600		PA7a☑
81	TIL629	TR	9	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
82	LA209	TR	9	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18gΔ
83	LA609	TR	9	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18gΔ
84	LA709	TR	9	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18gΔ
85	LA809	TR	9	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18gΔ
86#	BPW16/9	TR	9	200m	2A%	32 Δ	200n	20 Δ	200u	7.6m	C	5.0 Δ	100m	1.6u#	.50	AD	BF1	PA1☑
87#	BPW17/9	TR	9	200m	2A%	32 Δ	200n	20 Δ	1.5m	7.6m	C	5.0 Δ	100m	1.6u#	.50	AD	BF1	PA1a☑
88	STA71	TR	9	200m#	48*	30 Δ	100n	5.0 Δ					100m	3.0u#	.850	AD		PA12Δ
89	STA72	TR	9	200m#	48*	30 Δ	100n	5.0 Δ					100m	3.0u#	.850	AD		PA18gΔ
90#	BPX89	TR	9	900m#	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
91	TIL630	TR	10	50m#	48	50 Δ	1.0ut	30 Δ	800u	5.0m	E	5.0 Δ	100m	8.0u#	.50	AD		PA6Δ
92	LA210	TR	10	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18hΔ
93	LA610	TR	10	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18hΔ
94	LA710	TR	10	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18hΔ
95	LA810	TR	10	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18hΔ
96#	BPW19	TR	10	200m	2A%	32 Δ	200n	5.0 Δ	800u	7.6m	C	5.0 Δ	100m	1.6u#	.50	AD	BF2a	PA2☑
97#	BPX58	TR	10	200m	28%	32 Δ	200n	5.0 Δ	150u	7.6m	C	5.0 Δ	100m	1.6u#	.50	AD	BF2a	PA4☑
98#	BPX80	TR	10	1.0 #	49§	32 Δ	200n	25 Δ	2.5m	20m	C	5.0 Δ	100m	8.0u#	.50	AD		PA26Δ
99	LA211	TR	11	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18jΔ
100	LA611	TR	11	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18jΔ
101	LA711	TR	11	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18jΔ
102	LA811	TR	11	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18jΔ
103#	BPW27	TR	12				25n	5.0 Δ	2.0m	20m			.1023		.500	See CNY27		PA11Δ
104#	LSA17	TR	12	50m	6C	50 Δ	100n	30	2.0m	20m	E	5.0 Δ	250m		.50	AD 12 LS600		PA29a☑
105	OPA112	TR	12	50m	48*	25 Δ	100n	5.0 Δ	200u	5.0m	E	5.0 Δ	250m	3.0u#	.50	BC		PA13☑
106	OPA113	TR	12	50m	48*	25 Δ	100n	5.0 Δ	200u	5.0m	E	5.0 Δ	250m	3.0u#	.50	BC		PA13☑
107	OPA512	TR	12	50m	48*	25 Δ	100n	10 Δ	800u	20m	E	5.0 Δ	250m	3.0u#	.50	BC		PA11Δ
108	TIL135	TR	12	50m	6C	50 Δ	100n	30	12m	20m	E	5.0 Δ	250m		.50	AD 12 LS600		PA11Δ
109	CR212C	TR	12	100m#	28§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u		AD Card Reader		PA19☑
110	CR612C	TR	12	100m#	28§	30 Δ	200n	5.0 Δ	150u	2.0m	E	10 Δ	.100	3.0u		AD Card Reader		PA19☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

15. SENSOR ARRAY: PHOTODIODE,PHOTOTRANSISTOR

IN ORDER OF: (1)TYPE SENSING ELEMENT (2)No. ELEM.(3)TOT. PWR.DISS.&(4)TYPE No.

LINE No.	4 TYPE No.	1 SENS-ING ELEMENT	2 NO. OF ELEM-ENTS	3 TOT. PWR. DISS. @ 25°C (W)	TEMP RNG. CODE - +	MAX. VOLT #-VR Δ-VCEO (V)	MAX. DARK CURRENT ID (A)	MAX. DARK CURRENT #-VR Δ-VCE (V)	MINIMUM LIGHT CURRENT IL #-RESP (A)	MINIMUM LIGHT CURRENT Ee (W/cm2)	S R C	MINIMUM LIGHT CURRENT #-VR Δ-VCE (V)	CENTER SPACING (in)	RESP. TIME (S)	MATCH FACT -OR MIN/MAX	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	CR712C	TR	12	100m#	48§	25	20nt	10 Δ	20u	2.0m	E	10 Δ	.100	3.0u		AD Card Reader		PA19☑
2	CR812C	TR	12	100m#	48§	25	20nt	10 Δ	2.0u	2.0m	E	10 Δ	.100	150u		AD Card Reader		PA19☑
3	LA212	TR	12	100m	07§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u#	.500	AD;Paper Tape Rdr	BF3	PA18kΔ
4	LA612	TR	12	100m	07§	30 Δ	200n	10 Δ	750u	10m	E	10 Δ	.100	3.0u#	.500	AD;Paper Tape Rdr	BF3	PA18kΔ
5	LA712	TR	12	100m	07§	25 Δ	20nt	10 Δ	20ut	2.0m	E	10 Δ	.100	3.0u	.333	AD;Paper Tape Rdr	BF3	PA18kΔ
6	LA812	TR	12	100m	07§	25 Δ	20nt	10 Δ	2.0mt	2.0m	E	10 Δ	.100	150u#	.500	AD;Paper Tape Rdr	BF3	PA18kΔ
7	STA73	TR	12	200m#	48*	30 Δ	100n	5.0 Δ					250m	3.0u#	.850	AD		PA13Δ
8	OPA518	TR	18			25 Δ	100n	10 Δ	800u	20m		5.0 Δ	100m		.50	BC		PA25Δ
9	CR218C	TR	18	100m#	28§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u		AD Card Reader		PA19a☑
10	CR618C	TR	18	100m#	28§	30 Δ	200n	5.0 Δ	150u	2.0m	E	10 Δ	.100	3.0u		AD Card Reader		PA19a☑
11	CR718C	TR	18	100m#	48§	25	20nt	10 Δ	20u	2.0m	E	10 Δ	.100	3.0u		AD Card Reader		PA19a☑
12	CR818C	TR	18	100m#	48§	25	20nt	10 Δ	2.0u	2.0m	E	10 Δ	.100	150u		AD Card Reader		PA19a☑
13	CR224C	TR	24	100m#	28§	30 Δ	200n	5.0 Δ	800u	2.0m	E	5.0 Δ	.100	20u		AD Card Reader		PA19b☑
14	CR624C	TR	24	100m#	28§	30 Δ	200n	5.0 Δ	150u	2.0m	E	10 Δ	.100	3.0u		AD Card Reader		PA19b☑
15	CR724C	TR	24	100m#	48§	25	20nt	10 Δ	20u	2.0m	E	10 Δ	.100	3.0u		AD Card Reader		PA19b☑
16	CR824C	TR	24	100m#	48§	25	20nt	10 Δ	2.0u	2.0m	E	10 Δ	.100	150u		AD Card Reader		PA19b☑

16. SENSOR: PHOTOCONDUCTIVE CELL (LDR)

IN ORDER OF:(1)PWR. DISS.-Pcase (2)PK WAVELENGTH (3)MAX. VOLT &(4)TYPE No.

LINE No.	4 TYPE No.	1 MAX. PWR @ 25°C Pcase (W)	2 PEAK WAVE-LENGTH λp (m)	3 MAX. VOLT V (V)	TEMP RNG. CODE - +	LIGHT RESISTANCE Ron (Ω)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURCE	DARK RESISTANCE Roff (Ω)	SECs. AFTER (S)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURCE	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☐-RECT. Δ-STRIP * CHIP
1#	1114E1	30m	730n	60	17*	40kØ	2.0			C	1.0M	5.0	2.0			C	BB		PC8aØ
2#	434TS1	40m	580n	800	17*	100k		2.0		C	2.0M	5.0		2.0		C	BA		PC50Ø
3	MKB1-7H26P	40m	700n	150	26	2.0kØ		10		C	1.5M	10					BB		PC14Ø
4	MKY1-5C38E	45m	550n	150		7.5k	1.0			C	300k	10	40				BA		PC14Ø
5#	MKY1-5C38E%	45m*	620n☐	150	37	7.5kØ		10		C	300kØ	10		10		C	BA		PC32Ø
6#	RPY71	50m		50	47*	6.0k☐		10		G	600kØ	20		10		G	BA		PC21a☐
7#	RPY64	50m	500n	100	47*	3.5k		1.0k			100M	60					BA		PC24Ø
8	CL902L	50m*	515n	100 Δ	57*	67k	2.0			C	4.5M	5.0	2.0			C	BA		PC10Ø
9	VT222	50m	515n	100	16	10k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC1Ø
10	VT222H	50m	515n	100	16	20k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC1Ø
11	CL902	50m*	515n	250 Δ	57*	1.0M	2.0			C	66M	5.0	2.0			C	BA		PC10Ø
12	VT223	50m	515n	300	16	40k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC1Ø
13	VT223H	50m	515n	300	16	65k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC1Ø
14	VT224	50m	515n	300	16	500k	2.0			C	50MØ	5.0	2.0			C	BA		PC1Ø
15	VT224L	50m	515n	300	16	80k	2.0			C	10MØ	5.0	2.0			C	BA		PC1Ø
16	VT225	50m	515n	300	16	1.0M	2.0			C	200MØ	5.0	2.0			C	BA		PC1Ø
17#	RPY63	50m	550n	50	47*	800 ☐		1.0k			1.0M	60					CF		PC24Ø
18	CL905HLL	50m	550n	60		11k	2.0			C							BA		PC13Ø
19	CL9P9LL	50m*	550n	70	27*	15k	2.0			C	10M	5.0	2.0			C	BA		PC55aØ
20	NSL412	50m	550n	80	67	75k	1.0	10		E	10M	15	50	500			BA		PC39aØ
21	NSL413	50m	550n	80	67	30k	1.0	10		E	2.0M	15	50	500			BA		PC39aØ
22	NSL414	50m	550n	80	67	14k	1.0	10		E	200k	15	50	500			BA		PC39aØ
23♦	NSL4122	50m	550n	80		75k	1.0	10			1.0M	15	50	500			BA		PC41Ø
24♦	NSL4132	50m	550n	80		30k	1.0	10			200k	15	50	500			BA		PC41Ø
25♦	NSL4142	50m	550n	80		14k	1.0	10			100k	15	50	500			BA		PC41Ø
26	CL9P5HL	50m*	550n	100	27*	100k	2.0			C	67M	5.0	2.0			C	BA		PC55aØ
27	CL9P5L	50m*	550n	100	27*	10k	2.0			C	670k	5.0	2.0			C	BA		PC55aØ
28	CL9P9L	50m*	550n	100	27*	100k	2.0			C	67M	5.0	2.0			C	BA		PC55aØ
29	CL905HL	50m*	550n	100 Δ	57*	100k	2.0			C	67M	5.0	2.0			C	BA		PC10Ø
30	CL905HN	50m*	550n	100 Δ	57*	700k	2.0			C	467M	5.0	2.0			C	BA		PC10Ø
31	CL905L	50m*	550n	100 Δ	57*	10k	2.0			C	670k	5.0	2.0			C	BA		PC10Ø
32	CL905N	50m*	550n	100 Δ	57*	83k	2.0			C	5.5M	5.0	2.0			C	BA		PC10Ø
33	CL909L	50m*	550n	100 Δ	57*	100k	2.0			C	67M	5.0	2.0			C	BA		PC10Ø
34	MKY1-5H26	50m	550n	100		2.0kØ	1.0			C	200k	10	40				BA		PC14Ø
35#	RPY62	50m	550n	100	47*	3.5k		1.0k			100M	60					CF		PC24Ø
36	VT23L	50m	550n	100	16	11k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC1Ø
37	VT231	50m	550n	100	16	22k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC1Ø
38	VT232	50m	550n	100	16	100k	2.0			C	50MØ	5.0	2.0			C	BA		PC1Ø
39	VT233	50m	550n	100	16	350k	2.0			C	100MØ	5.0	2.0			C	BA		PC1Ø
40	VT233L	50m	550n	100	16	150k	2.0			C	50MØ	5.0	2.0			C	BA		PC1Ø
41	VT234	50m	550n	100	16	700k	2.0				200MØ	5.0	2.0			C	BA		PC1Ø
42	MKY1-4H37	50m	550n	150		5.0kØ	1.0			C	500k	10	40				BA		PC14Ø
43	MKY1-4H48	50m	550n	150		10kØ	1.0			C	1.0M	10	40				BA		PC14Ø
44	MKY1-5H37	50m	550n	150		5.0kØ	1.0			C	400k	10	40				BA		PC14Ø
45	MKY1-5H38	50m	550n	150		5.0kØ	1.0			C	500k	10	40				BA		PC14Ø
46	MKY1-5H48	50m	550n	150		10kØ	1.0			C	1.0M	10	40				BA		PC14Ø
47	MKY1-5H49	50m	550n	150		10kØ	1.0			C	1.0M	10	40				BA		PC14Ø
48	NSL418	50m	550n	160	67	50k	1.0	10		E	5.0M	15	50	500			BA		PC39aØ
49♦	NSL4182	50m	550n	160		50k	1.0	10			1.0M	15	50	500			BA		PC41Ø
50	CL9P5	50m*	550n	250	27*	166k	2.0			C	11M	5.0	2.0			C	BA		PC55aØ
51	CL905	50m*	550n	250 Δ	57*	166k	2.0			C	11M	5.0	2.0			C	BA		PC10Ø
52	VT235	50m	550n	300	16	1.4M	2.0				200MØ	5.0	2.0			C	BA		PC1Ø
53	NSL415	50m	550n	320	67	550k	1.0	10		E	100M	15	50	500			BA		PC39aØ
54	NSL416	50m	550n	320	67	260k	1.0	10		E	100M	15	50	500			BA		PC39aØ
55	NSL417	50m	550n	320	67	110k	1.0	10		E	50M	15	50	500			BA		PC39aØ
56♦	NSL4152	50m	550n	320		550k	1.0	10			10M	15	50	500			BA		PC41Ø
57♦	NSL4162	50m	550n	320		260k	1.0	10			10M	15	50	500			BA		PC41Ø
58♦	NSL4172	50m	550n	320		110k	1.0	10			5.0M	15	50	500			BA		PC41Ø
59	VT201	50m	565n	100	16	4.3k	2.0			C	500kØ	5.0	2.0			C	BA		PC1Ø
60	VT202	50m	565n	100	16	8.0k	2.0			C	750kØ	5.0	2.0			C	BA		PC1Ø
61	VT202H	50m	565n	100	16	15k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC1Ø
62	VT203	50m	565n	300	16	22k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC1Ø
63	VT203H	50m	565n	300	16	44k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC1Ø
64	VT204	50m	565n	300	16	110k	2.0			C	20MØ	5.0	2.0			C	BA		PC1Ø
65	VT204L	50m	565n	300	16	88k	2.0			C	10MØ	5.0	2.0			C	BA		PC1Ø
66	VT205	50m	565n	300	16	1.0M	2.0			C	200MØ	5.0	2.0			C	BA		PC1Ø
67	VT271	50m	615n	50	16	4.0k	2.0				2.5MØ	5.0	2.0			C	BA		PC1Ø
68	VT272	50m	615n	50	16	6.0k	2.0				5.0MØ	5.0	2.0			C	BA		PC1Ø
69	CL907L	50m*	615n	100 Δ	57*	6.0k	2.0			C	1.2M	5.0	2.0			C	BA		PC10Ø
70	CL907N	50m*	615n	100 Δ	57*	66k	2.0			C	13M	5.0	2.0			C	BA		PC10Ø
71	CL907	50m*	615n	250 Δ	57*	133k	2.0			C	27M	5.0	2.0			C	BA		PC10Ø
72	CL9P7HLL	50m*	620n	70	27*	4.5k	2.0			C	3.0M	5.0	2.0			C	BA		PC55aØ
73	CL9P7HL	50m*	620n	100	27*	24k	2.0			C	16M	5.0	2.0			C	BA		PC55aØ
74	CL907HL	50m*	620n	100 Δ	57*	24k	2.0			C	16M	5.0	2.0			C	BA		PC10Ø
75	CL907HN	50m*	620n	100 Δ	57*	300k	2.0			C	200M	5.0	2.0			C	BA		PC10Ø
76#	MKY1-4H37%	50m*	620n☐	150	37	5.0kØ		10		C	500kØ	10		10		C	BA		PC25Ø
77#	MKY1-4H48%	50m*	620n☐	150	37	10kØ		10		C	1.0MØ	10		10		C	BA		PC25Ø
78#	MKY1-5H26%	50m*	620n☐	150	37	2.0kØ		10		C	200kØ	10		10		C	BA		PC26Ø
79#	MKY1-5H37%	50m*	620n☐	150	37	5.0kØ		10		C	400kØ	10		10		C	BA		PC26Ø
80#	MKY1-5H38%	50m*	620n☐	150	37	5.0kØ		10		C	500kØ	10		10		C	BA		PC26Ø
81#	MKY1-5H48%	50m*	620n☐	150	37	10kØ		10		C	1.0MØ	10		10		C	BA		PC26Ø
82#	MKY1-5H49%	50m*	620n☐	150	37	10kØ		10		C	1.0MØ	10		10		C	BA		PC26Ø
83#	RPY61	50m	650n	50	47*	800 ☐		1.0k			1.0M	60					CF		PC24Ø
84	VT241	50m	675n	100	16	2.0k	2.0				500kØ	5.0	2.0			C	BB		PC1Ø
85	VT241H	50m	675n	100	16	4.0k	2.0				1.0MØ	5.0	2.0			C	BB		PC1Ø
86	VT242	50m	675n	100	16	15k	2.0				10MØ	5.0	2.0			C	BB		PC1Ø
87	VT242L	50m	675n	100	16	8.0k	2.0				1.0MØ	5.0	2.0			C	BB		PC1Ø
88	VT242H	50m	675n	300	16	30k	2.0				10MØ	5.0	2.0			C	BB		PC1Ø
89	CL9P4L	50m*	690n	100	27*	2.0k	2.0			C	520k	5.0	2.0			C	BB		PC55aØ
90	CL904L	50m*	690n	100 Δ	57*	2.0k	2.0			C	520k	5.0	2.0			C	BB		PC10Ø
91	CL904N	50m*	690n	100 Δ	57*	15k	2.0			C	4.0M	5.0	2.0			C	BB		PC10Ø
92	CL904	50m*	690n	250 Δ	57*	30k	2.0			C	8.0M	5.0	2.0			C	BB		PC10Ø
93	NSL312	50m	700n	70	66	75k	1.0	10		E	100M	15	50	500			BB		PC39aØ
94	NSL313	50m	700n	70	66	30k	1.0	10		E	100M	15	50	500			BB		PC39aØ
95	NSL314	50m	700n	70	66	14k	1.0	10		E	100M	15	50	500			BB		PC39aØ
96♦	NSL3122	50m	700n	70		75k	1.0	10			10M	15	50	500			BB		PC41Ø
97♦	NSL3132	50m	700n	70		30k	1.0	10			10M	15	50	500			BB		PC41Ø
98♦	NSL3142	50m	700n	70		14k	1.0	10			10M	15	50	500			BB		PC41Ø
99	NSL318	50m	700n	120	66	50k	1.0	10		E	500M	15	50	500			BB		PC39aØ
100♦	NSL3182	50m	700n	120		50k	1.0	10			50M	15	50	500			BB		PC41Ø
101	MKB4H38	50m	700n	150		5.0kØ	1.0			C	50M	10	40				BB		PC14Ø
102#	MKB4H38%	50m*	700n	150	37	5.0k		10		C	50M	5.0		10		C	BB		PC25Ø
103	NSL315	50m	700n	250	66	550k	1.0	10		E	1.0G	15	50	500			BB		PC39aØ
104	NSL316	50m	700n	250	66	260k	1.0	10		E	1.0G	15	50	500			BB		PC39aØ
105	NSL317	50m	700n	250	66	110k	1.0	10		E	1.0G	15	50	500			BB		PC39aØ
106♦	NSL3152	50m	700n	250		550k	1.0	10			500M	15	50	500			BB		PC41Ø
107♦	NSL3162	50m	700n	250		260k	1.0	10			100M	15	50	500			BB		PC41Ø
108♦	NSL3172	50m	700n	250		110k	1.0	10			100M	15	50	500			BB		PC41Ø
109#	RPY60	50m	720n	100	47*	800 ☐		1.0k			100M	60					BB		PC24Ø
110#	424SPFE1	50m	730n	60	17*	1.0kØ	2.0			C	1.0M	5.0	2.0			C	BB		PC49Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. SENSOR: PHOTOCONDUCTIVE CELL (LDR)

IN ORDER OF:(1)PWR. DISS.-Pcase (2)PK WAVELENGTH (3)MAX. VOLT &(4)TYPE No.

LINE No.	4 TYPE No.	1 MAX. PWR @ 25°C Pcase (W)	2 PEAK WAVE-LENGTH λp (m)	3 MAX. VOLT V (V)	TEMP RNG. CODE - +	LIGHT RESISTANCE Ron (Ω)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURC	DARK RESISTANCE Roff (Ω)	SECs. AFTER (S)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOUR C	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1	CL903L	50m*	735n	100 Δ	57*	6.0k	2.0			C	40M	5.0	2.0			C	BB		PC10Ø
2	CL903N	50m*	735n	100 Δ	57*	66k	2.0			C	440M	5.0	2.0			C	BB		PC10Ø
3	VT211	50m	735n	100	16	2.3k	2.0			C	500kØ	5.0	2.0			C	BB		PC1Ø
4	VT211H	50m	735n	100	16	3.5k	2.0			C	1.0MØ	5.0	2.0			C	BB		PC1Ø
5	VT212	50m	735n	100	16	7.8k	2.0			C	5.0MØ	5.0	2.0			C	BB		PC1Ø
6	VT212L	50m	735n	100	16	6.0k	2.0			C	5.0MØ	5.0	2.0			C	BB		PC1Ø
7	VT213L	50m	735n	100	16	16k	2.0			C	10MØ	5.0	2.0			C	BB		PC1Ø
8	VT221	50m	735n	100	16	6.8k	2.0			C	750kØ	5.0	2.0			C	BA		PC1Ø
9	CL903	50m*	735n	250 Δ	57*	133k	2.0			C	880M	5.0	2.0			C	BB		PC10Ø
10	CL903A	50m*	735n	250 Δ	57*	67k	2.0			C	450M	5.0	2.0			C	BB		PC10Ø
11	VT213	50m	735n	300	16	22k	2.0			C	50MØ	5.0	2.0			C	BB		PC1Ø
12	VT213H	50m	735n	300	16	32k	2.0			C	50MØ	5.0	2.0			C	BB		PC1Ø
13	VT214	50m	735n	300	16	140k	2.0			C	200MØ	5.0	2.0			C	BB		PC1Ø
14	VT214L	50m	735n	300	16	64k	2.0			C	100MØ	5.0	2.0			C	BB		PC1Ø
15	VT21K	50m	740n	70		4.0k					50M						BB		
16	VT21M	50m	740n	250		60k					500M						BB		
17	MPY4H69	60m	520n	200		50kØ	1.0			C	10M	10	40				BA		PC14Ø
18#	MPY4H69%	60m*	520n	200	38	50kØ		10		C	10MØ	10		10		C	BA		PC25Ø
19	MPY4H79	60m	520n	200		100kØ	1.0			C	20M	10	40				BA		PC14Ø
20#	MPY4H79%	60m*	520n	200	38	100kØ		10		C	20MØ	10		10		C	BA		PC25Ø
21	MPB2-4H48	60m	590n	200		10kØ	1.0			C	5.0M	10	40				BB		PC14Ø
22#	MPB2-4H48%	60m*	590n	200	38	10kØ		10		C	5.0MØ	10		10		C	BA		PC25Ø
23	MPB2-4H59	60m	590n	200		20kØ	1.0			C	10M	10	40				BB		PC14Ø
24#	MPB2-4H59%	60m*	590n	200	38	20kØ		10		C	10MØ	10		10		C	BA		PC25Ø
25#	RPX10	60m	630n	350	37*	80kØ	2.0			C	10M	5.0	2.0			C	BA		PC5aØ
26	MKB1-7H28P	60m	690n	150		2.0kØ	1.0			C	1.5M	10	40				BB		PC14Ø
27#	MKB1-7H28P%	60m*	700n	150	37	2.0k		10		C	1.5M	1.0		10		C	BB		PC29Ø
28#	ORP60	70m*		350	47*	60k		50		G	200M	20				G	BA		PC17Ø
29#	ORP61	70m*		350	47*	60k		50		G	200M	20				G	BA		PC17Ø
30#	ORP66	70m*		350	47*	55kØ		50		G	200M	20				G	BA		PC17Ø
31	MKY1-7C38E	70m	550n	150		7.5k	1.0			C	300k	10	40				BA		PC14Ø
32#	MKY1-7C38E%	70m*	620n☑	150	37	7.5kØ		10		C	300kØ	10		10		C	BA		PC33Ø
33#	RPY33	75m		50	46*	1.6kØ		25		K	100kØ	20		25			CF		PC20Ø
34	CK1214	75m	510n	75	47	7.0k	2.0			C	500k	10	2.0			C	CF		PC52Ø
35	CK1221	75m	515n	75		7.0k	2.0			C	500k	5.0	2.0			C	BA		PC45Ø
36	CK1222	75m	515n	75		12k	2.0			C	1.0m	5.0	2.0			C	BA		PC45Ø
37	CK1261	75m	515n	75		6.0k	2.0			C	500k	5.0	2.0			C	BA		PC46Ø
38	CK1262	75m	515n	75		12k	2.0			C	1.0M	5.0	2.0			C	BA		PC46Ø
39	CK1223	75m	515n	100		20k	2.0			C	1.0m	5.0	2.0			C	BA		PC45Ø
40	CL602	75m*	515n	300 Δ	57*	1.0M	2.0			C	66M	5.0	2.0			C	BA		PC8Ø
41	CK1209	75m	550n	75	37	6.0k	2.0			C	1.0m	5.0	2.0			C	CF		PC45Ø
42	CK1213	75m	550n	75	47	9.0k	2.0			C	500k	10	2.0			C	CF		PC52Ø
43	CL605L	75m*	550n	170 Δ	57*	7.5k	2.0			C	500k	5.0	2.0			C	BA		PC8Ø
44	CL605	75m*	550n	300 Δ	57*	166k	2.0			C	11M	5.0	2.0			C	BA		PC8Ø
45	CK1212	75m	610n	75	47	1.5k	2.0			C	500k	10	2.0			C	CF		PC52Ø
46	CK1208	75m	615n	75	36	3.0k	2.0			C	1.0m	5.0	2.0			C	CF		PC45Ø
47	CK1266	75m	615n	75		3.0k	2.0			C	1.0M	5.0	2.0			C	CF		PC46Ø
48	CL607L	75m*	615n	170 Δ	57*	3.5k	2.0			C	700k	5.0	2.0			C	BA		PC8Ø
49	CL607	75m*	615n	300 Δ	57*	133k	2.0			C	27m	5.0	2.0			C	BA		PC8Ø
50	CK1211	75m	655n	75	47	6.0k	2.0			C	1.0m	10	2.0			C	CF		PC52Ø
51	CK1224	75m	655n	75		1.0k	2.0			C	10M	5.0	2.0			C	CF		PC45Ø
52	CL604L	75m*	690n	170 Δ	57*	1.5k	2.0			C	400k	5.0	2.0			C	BB		PC8Ø
53	CL604M	75m*	690n	250 Δ	57*	7.5k	2.0			C	2.0M	5.0	2.0			C	BB		PC8Ø
54	CL604	75m*	690n	300 Δ	57*	30k	2.0			C	8.0M	5.0	2.0			C	BB		PC8Ø
55	MKB5H38	75m	700n	150		5.0kØ	1.0			C	100M	10	40				BB		PC14Ø
56#	MKB5H38%	75m*	700n	150	37	5.0k		10		C	100M	5.0		10		C	BB		PC26Ø
57	MKB5H69	75m	700n	300		50kØ	1.0			C	400M	10	40				BB		PC14Ø
58#	MKB5H69%	75m*	700n	300	37	50k		10		C	400M	5.0		10		C	BB		PC26Ø
59	CK1201	75m	715n	75		600	2.0			C	10M	5.0	2.0			C	BB		PC45Ø
60	CK1210	75m	715n	75	46	8.5k	2.0			C	10m	5.0	2.0			C	BB		PC52Ø
61	CK1241	75m	715n	75		800	2.0			C	10M	5.0	2.0			C	BB		PC46Ø
62	CL603AL	75m*	735n	170 Δ	57*	3.5k	2.0			C	23M	5.0	2.0			C	BB		PC8Ø
63	CL603	75m*	735n	300 Δ	57*	133k	2.0			C	880M	5.0	2.0			C	BB		PC8Ø
64	CL603A	75m*	735n	300 Δ	57*	75k	2.0			C	500M	5.0	2.0			C	BB		PC8Ø
65	VT93L	80m	550n	100	16	11k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC3Ø
66	VT931	80m	550n	100	16	22k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC3Ø
67	VT932	80m	550n	100	16	100k	2.0			C	50MØ	5.0	2.0			C	BA		PC3Ø
68	MKY1-7H26	80m	550n	150		2.0 Ø	1.0			C	100k	10	40				BA		PC14Ø
69	MKY1-7H37	80m	550n	150		5.0 Ø	1.0			C	400k	10	40				BA		PC14Ø
70	MKY1-7H38	80m	550n	150		5.0 Ø	1.0			C	500k	10	40				BA		PC14Ø
71	MKY1-7H39	80m	550n	150		5.0 Ø	1.0			C	1.0M	10	40				BA		PC14Ø
72	MKY1-7H48	80m	550n	150		10 Ø	1.0			C	2.0M	10	40				BA		PC14Ø
73	MKY1-7H49	80m	550n	150		10 Ø	1.0			C	2.0M	10	40				BA		PC14Ø
74	VT901	80m	565n	100	16	43k	2.0			C	500kØ	5.0	2.0			C	BA		PC3Ø
75	VT902	80m	565n	100	16	8.0k	2.0			C	750kØ	5.0	2.0			C	BA		PC3Ø
76	VT903H	80m	565n	300	16	44k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC3Ø
77	VT904	80m	565n	300	16	110k	2.0			C	20MØ	5.0	2.0			C	BA		PC3Ø
78	VT904L	80m	565n	300	16	88k	2.0			C	10MØ	5.0	2.0			C	BA		PC3Ø
79#	424SPFS1	80m	600n	200	37*	2.0kØ	2.0			C	100k	5.0	2.0			C	BA		PC49Ø
80#	MKY1-7H26%	80m*	620n☑	150	37	2.0kØ		10		C	100kØ	10		10		C	BA		PC28Ø
81#	MKY1-7H38%	80m*	620n☑	150	37	5.0kØ		10		C	500kØ	10		10		C	BA		PC28Ø
82#	MKY1-7H39%	80m*	620n☑	150	37	5.0kØ		10		C	1.0MØ	10		10		C	BA		PC28Ø
83#	MKY1-7H49%	80m*	620n☑	150	37	10kØ		10		C	2.0MØ	10		10		C	BA		PC28Ø
84	VT941	80m	675n	100	16	2.0k	2.0			C	500kØ	5.0	2.0			C	BB		PC3Ø
85	VT912	80m	735n	100	16	15k	2.0			C	20MØ	5.0	2.0			C	BB		PC3Ø
86	VT912L	80m	735n	100	16	6.0k	2.0			C	5.0MØ	5.0	2.0			C	BB		PC3Ø
87	VT913H	80m	735n	100	16	32k	2.0			C	50MØ	5.0	2.0			C	BB		PC3Ø
88	VT914L	80m	735n	100	16	64k	2.0			C	100MØ	5.0	2.0			C	BB		PC3Ø
89	VT914	80m	735n	250	16	140k	2.0			C	200MØ	5.0	2.0			C	BB		PC3Ø
90#	ORP62	100m*		350	47*	45k		50		G	150M	20				G	BA		PC17Ø
91#	ORP68	100m*		350	47*	64k		50		G	150M	20				G	BA		PC17aØ
92#	ORP69	100m*		350	47*	30k		50		G	100M	20				G	BA		PC17aØ
93	EM1507	100m	514n	200	59	2.5k☑	100			E	1.0MØ						BA		PC46Ø
94	CK1263	100m	515n	100		20k	2.0			C	1.0M	5.0	2.0			C	BA		PC46Ø
95	CK1264	100m	515n	100		10k	2.0			C	10M	5.0	2.0			C	BA		PC46Ø
96	MPY5C69	100m	520n	200		50kØ	1.0			C	30M	10	40				BA		PC14Ø
97#	MPY5C69%	100m*	520n	200	27	50kØ		10		C	30MØ	10		10		C	BA		PC32Ø
98	MPY5C79	100m	520n	200		100kØ	1.0			C	50M	10	40				BA		PC14Ø
99#	MPY5C79%	100m*	520n	200	27	100kØ		10		C	50MØ	10		10		C	BA		PC32Ø
100	MPY5C89	100m	520n	200		200kØ	1.0			C	60M	10	40				BA		PC14Ø
101	NSL461	100m	550n	80	67	65k	1.0	10		E	80M	15	50	500			BA		PC39bØ
102	NSL462	100m	550n	80	67	28k	1.0	10		E	20M	15	50	500			BA		PC39bØ
103♦	NSL463	100m	550n	80	67	12k	1.0	10		E	2.5M	15	50	500			BA		PC39bØ
104	NSL464	100m	550n	80	67	5.2k	1.0	10		E	700k	15	50	500			BA		PC39bØ
105	CK1219	100m	550n	100	47	5.0k	2.0			C	1.0m	10	2.0			C	CF		PC52aØ
106	CK1226	100m	550n	100		15k	2.0			C	1.0M	5.0	2.0			C	CF		PC45Ø
107	NSL465	100m	550n	250	67	550k	1.0	10		E	160k	15	50	500			BA		PC39bØ
108	NSL466	100m	550n	250	67	230k	1.0	10		E	20k	15	50	500			BA		PC39bØ
109	NSL467	100m	550n	250	67	100k	1.0	10		E	4.0k	15	50	500			BA		PC39bØ
110♦#	RPS5	100m	600n	400	17*	5.0k		2.0		C	1.0M	5.0		2.0		C	BA		PC62☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. SENSOR: PHOTOCONDUCTIVE CELL (LDR)

IN ORDER OF:(1)PWR. DISS.-Pcase
(2)PK WAVELENGTH (3)MAX. VOLT &(4)TYPE No.

LINE No.	4 TYPE No.	1 MAX. PWR @ 25°C Pcase (W)	2 PEAK WAVE-LENGTH λp (m)	3 MAX. VOLT V (V)	TEMP RNG. CODE - +	LIGHT RESISTANCE Ron (Ω)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURC	DARK RESISTANCE Roff (Ω)	SECs. AFTER (S)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURC	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1♦#	RPS5PF	100m	600n	400		400		100			1.0M	5.0	100						PC62a☑
2	CK1218	100m	610n	150	47	3.5k	2.0			C	1.0m	10	2.0			C	CF		PC52aØ
3	CK1249	100m	615n	100	36	4.0k	2.0			C	1.0M	5.0	2.0			C	CF		PC46Ø
4	CK1217	100m	655n	100	47	1.5k	2.0			C	10M	10	2.0			C	CF		PC52aØ
5	CK1245	100m	655n	100		1.5k	2.0			C	1.0M	5.0	2.0			C	CF		PC46Ø
6	CK1265	100m	655n	100		3.0k	2.0			C	10M	5.0	2.0			C	CF		PC46Ø
7#	RPY58A	100m*	675n	50	47*	600		50		G	200k	20					BA		PC21☑
8	EM1502	100m	695n	200	57	1.2k☑	100			E	30MØ						BB		PC46Ø
9	EM1508	100m	695n	200	57	1.2k☑	100			E	30MØ						BB		PC46aØ
10	NSL361	100m	700n	70	66	65k	1.0	10		E	200M	15	50	500			BB		PC39bØ
11	NSL362	100m	700n	70	66	28k	1.0	10		E	200M	15	50	500			BB		PC39bØ
12♦	NSL363	100m	700n	70	66	12k	1.0	10		E	100M	15	50	500			BB		PC39bØ
13♦	NSL364	100m	700n	70	66	5.2k	1.0	10		E	100M	15	50	500			BB		PC39bØ
14♦	NSL365	100m	700n	250	66	550k	1.0	10		E	1.0G	15	50	500			BB		PC39bØ
15♦	NSL366	100m	700n	250	66	230k	1.0	10		E	1.0G	15	50	500			BB		PC39bØ
16♦	NSL367	100m	700n	250	66	100k	1.0	10		E	1.0G	15	50	500			BB		PC39bØ
17	CK1202	100m	715n	100		300	2.0			C	100MØ	5.0	2.0			C	BB		PC45Ø
18	CK1216	100m	715n	100	46	1.0k	2.0			C	10m	5.0	2.0			C	BB		PC52aØ
19	CK1242	100m	715n	100		1.2k	2.0			C	10M	5.0	2.0			C	BB		PC46Ø
20	CK1243	100m	715n	100		3.5k	2.0			C	10M	5.0	2.0			C	BB		PC46Ø
21	CK1244	100m	715n	100		7.0k	2.0			C	100M	5.0	2.0			C	BB		PC46Ø
22	CK1203	100m	715n	150		500	2.0			C	100MØ	5.0	2.0			C	BB		PC45Ø
23	MPY5H69	120m	520n	200		50kØ	1.0			C	30M	10	40				BA		PC14Ø
24#	MPY5H69%	120m*	520n	200	38	50kØ		10		C	30MØ	10		10		C	BA		PC26Ø
25	MPY5H79	120m	520n	200		100kØ	1.0			C	50M	10	40				BA		PC14Ø
26#	MPY5H79%	120m*	520n	200	38	100kØ		10		C	50MØ	10		10		C	BA		PC26Ø
27	MPY5H89	120m	520n	200		200kØ	1.0			C	60M	10	40				BA		PC14Ø
28	VT334/21	120m	550n	300	57	75k	2.0			C	10MØ	5.0				C	BA Dual		PC2aØ
29	VT334/21A	120m	550n	300	57	75k	2.0			C	10MØ	5.0				C	BA Dual		PC2aØ
30	VT334/21B	120m	550n	300	57	75k	2.0			C	10MØ	5.0				C	BA Dual		PC2aØ
31	MPB2-5H49	120m	590n	200		10kØ	1.0			C	5.0M	10	40				BB		PC14Ø
32#	MPB2-5H49%	120m*	590n	200	38	10kØ		10		C	5.0MØ	10		10		C	BA		PC26Ø
33	MPB2-5H59	120m	590n	200		20kØ	1.0			C	10M	10	40				BB		PC14Ø
34#	MPB2-5H59%	120m*	590n	200	38	20kØ		10		C	10MØ	10		10		C	BA		PC26Ø
35	CL704/2	125m		300		17k	2.0				6.8M	5.0	2.0				BB		
36	CK1220	125m	510n	100	47	7.0k	2.0			C	1.0m	10	2.0			C	BA		PC52aØ
37	CL702L2	125m*	515n	100 Δ	57*	46k	2.0			C	3.0M	5.0	2.0			C	BA;Dual		PC9Ø
38	CL702L	125m*	515n	100 Δ	57*	20k	2.0			C	1.3M	5.0	2.0			C	BA		PC9Ø
39	CK1268	125m	515n	200	37	80k	2.0			C	10M	10	2.0			C	BA		PC46Ø
40	VT32L	125m	515n	200	16	1.9k	2.0			C	100kØ	5.0	2.0			C	BA		PC2Ø
41	VT321	125m	515n	200	16	3.9k	2.0			C	200kØ	5.0	2.0			C	BA		PC2Ø
42	VT321H	125m	515n	200	16	7.8k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC2Ø
43	CL702	125m*	515n	300 Δ	57*	1.0M	2.0			C	66M	5.0	2.0			C	BA		PC9Ø
44	VT322	125m	515n	300	16	31k	2.0			C	10MØ	5.0	2.0			C	BA		PC2Ø
45	VT322L	125m	515n	300	16	15k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC2Ø
46	VT325	125m	515n	300	16	1.0M	2.0			C	200MØ	5.0	2.0				BA		PC2Ø
47	CL7P5H-ID	125m*	550n	100	27*	24k	2.0			C	14M	5.0	2.0			C	BA Dual		PC57Ø
48	CL705HL2	125m*	550n	100 Δ	57*	67k	2.0			C	45M	5.0	2.0			C	BA Dual		PC9Ø
49	CL705HL	125m*	550n	100 Δ	57*	28k	2.0			C	18M	5.0	2.0			C	BA		PC9Ø
50	CL705L2	125m*	550n	100 Δ	57*	7.5k	2.0			C	500k	5.0	2.0			C	BA Dual		PC9Ø
51	CL705L	125m*	550n	100 Δ	57*	3.3k	2.0			C	220k	5.0	2.0			C	BA		PC9Ø
52	CL709L	125m*	550n	100 Δ	57*	28k	2.0			C	18M	5.0	2.0			C	BA		PC9Ø
53	CL7P5HL	125m*	550n	170 Δ	27*	28k	2.0			C	14M	5.0	2.0			C	BA		PC56aØ
54	CL7P5L	125m*	550n	170 Δ	27*	3.3k	2.0			C	165k	5.0	2.0			C	BA		PC56aØ
55	CL7P9L	125m*	550n	170	27*	28k	2.0			C	18M	5.0	2.0			C	BA		PC56aØ
56	VT333	125m	550n	200	16	28k	2.0			C	10MØ	5.0	2.0				BA		PC2Ø
57	VT333/2	125m	550n	200	16	60k	2.0			C	25M	5.0	2.0			C	BA Dual		
58	VT333L	125m	550n	200	16	14k	2.0			C	5.0MØ	5.0	2.0				BA		PC2Ø
59	CL705	125m*	550n	300 Δ	57*	166k	2.0			C	11M	5.0	2.0			C	BA		PC9Ø
60	CL705/2	125m*	550n	300 Δ	57*	166k	2.0			C	11M	5.0	2.0			C	BA Dual		PC9Ø
61	VT30L	125m	565n	200	16	1.8k	2.0				100kØ	5.0	2.0			C	BA		PC2Ø
62	VT301	125m	565n	200	16	3.0k	2.0			C	200kØ	5.0	2.0			C	BA		PC2Ø
63	VT301/2	125m	565n	200	16	7.5k	2.0			C	1.0M	5.0	2.0			C	BA Dual		
64	VT301H	125m	565n	200	16	6.0k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC2Ø
65	VT302/2	125m	565n	200	16	16k	2.0			C	5.0M	5.0	2.0			C	BA Dual		
66	VT303L2	125m	565n	200	16	32k	2.0			C	5.0M	5.0	2.0			C	BA Dual		
67	VT302	125m	565n	300	16	16k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC2Ø
68	VT302L	125m	565n	300	16	10k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC2Ø
69	VT303	125m	565n	300	16	70k	2.0			C	10MØ	5.0	2.0			C	BA		PC2Ø
70	VT303L	125m	565n	300	16	32k	2.0			C	10MØ	5.0	2.0			C	BA		PC2Ø
71	VT304	125m	565n	300	16	144k	2.0			C	50MØ	5.0	2.0			C	BA		PC2Ø
72	VT305	125m	565n	300	16	1.0M	2.0			C	200MØ	5.0	2.0			C	BA		PC2Ø
73	CK1248	125m	615n	100	36	7.0k	2.0			C	10M	5.0	2.0			C	CF		PC46Ø
74	CL3P7L	125m*	615n	100	27*	1.2k	2.0			C	80k	5.0	2.0			C	BA		PC55Ø
75	CL707L	125m*	615n	100 Δ	57*	2.7k	2.0			C	540k	5.0	2.0			C	BA		PC9Ø
76	CK1225	125m	615n	125		10k	2.0			C	10M	5.0	2.0			C	CF		PC45Ø
77	CK1267	125m	615n	200	36	15k	2.0			C	10M	5.0	2.0			C	CF		PC46Ø
78	CL707	125m*	615n	300 Δ	57*	133k	2.0			C	27M	5.0	2.0			C	BA		PC9Ø
79	CL707HL	125m*	620n	100 Δ	57*	10k	2.0			C	67M	5.0	2.0			C	BA		PC9Ø
80	CL7P7HL	125m*	620n	170	27*	10k	2.0			C	6.7M	5.0	2.0			C	BA		PC56aØ
81	CL707HM	125m*	620n	250 Δ	57*	100k	2.0			C	67M	5.0	2.0			C	BA		PC9Ø
82	CL707H	125m*	620n	300 Δ	57*	600k	2.0			C	335M	5.0	2.0			C	BA		PC9Ø
83	CL7P7HM	125m*	620n	400	27*	30k	2.0			C	20M	5.0	2.0			C	BA		PC56aØ
84	CK1205	125m	655n	150		1.0k	2.0			C	100MØ	5.0	2.0			C	CF		PC45Ø
85	VT34L2	125m	675n	200	16	1.5k	2.0			C	100k	5.0	2.0			C	BB Dual		
86	VT34L	125m	675n	200	16	600	2.0			C	100kØ	5.0	2.0				BB		PC2Ø
87	VT341	125m	675n	200	16	1.2k	2.0			C	500kØ	5.0	2.0				BB		PC2Ø
88	VT341/2	125m	675n	200	16	3.0k	2.0			C	100k	5.0	2.0			C	BB Dual		
89	VT341H	125m	675n	300	16	2.4k	2.0			C	1.0MØ	5.0	2.0				BB		PC2Ø
90	VT342	125m	675n	300	16	7.0k	2.0			C	5.0MØ	5.0	2.0				BB		PC2Ø
91	VT342L	125m	675n	300	16	4.8k	2.0			C	1.0MØ	5.0	2.0				BB		PC2Ø
92	VT343	125m	675n	300	16	28k	2.0			C	10MØ	5.0	2.0				BB		PC2Ø
93	VT343L	125m	675n	300	16	14k	2.0			C	10MØ	5.0	2.0				BB		PC2Ø
94	CL704L2	125m*	690n	100 Δ	57*	1.5k	2.0			C	400k	5.0	2.0			C	BB Dual		PC9Ø
95	CL704L	125m*	690n	100 Δ	57*	600	2.0			C	160k	5.0	2.0			C	BB		PC9Ø
96	CL7P4L	125m*	690n	170 Δ	27*	1.0k	2.0			C	268k	5.0	2.0			C	BB		PC56aØ
97	CL7P4	125m*	690n	300 Δ	27*	54k	2.0			C	14M	5.0	2.0			C	BB		PC56aØ
98	CL704	125m*	690n	300 Δ	57*	30k	2.0			C	8.0M	5.0	2.0			C	BB		PC9Ø
99	CK1251	125m	715n	150	36	250	2.0			C	10M	5.0	2.0			C	BB		PC11Ø
100	CK1204	125m	715n	200		750	2.0			C	100MØ	5.0	2.0			C	BB		PC45Ø
101	CL703L2	125m*	735n	100 Δ	57*	6.5k	2.0			C	43M	5.0	2.0			C	BB;Dual		PC9Ø
102	CL703L	125m*	735n	100 Δ	57*	2.7k	2.0			C	18M	5.0	2.0			C	BB		PC9Ø
103	VT311	125m	735n	200	16	4.2k	2.0			C	1.0MØ	5.0	2.0			C	BB		PC2Ø
104	VT311L	125m	735n	200	16	2.1k	2.0			C	500kØ	5.0	2.0			C	BB		PC2Ø
105	VT312/2	125m	735n	200	16	5.0k	2.0			C	1.0M	5.0	2.0			C	BB Dual		
106	VT313L2	125m	735n	200	16	10k	2.0			C	1.0M	5.0	2.0			C	BB Dual		
107	CL703M	125m*	735n	250 Δ	57*	30k	2.0			C	200M	5.0	2.0			C	BB		PC9Ø
108	CL703	125m*	735n	300 Δ	57*	133k	2.0			C	880M	5.0	2.0			C	BB		PC9Ø
109	CL703/2	125m*	735n	300 Δ	57*	50k	2.0			C	330M	5.0	2.0			C	BB;Dual		PC9Ø
110	CL703A	125m*	735n	300 Δ	57*	67k	2.0			C	440M	5.0	2.0			C	BB		PC9Ø

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

16. SENSOR: PHOTOCONDUCTIVE CELL (LDR)

IN ORDER OF:(1)PWR. DISS.-Pcase
(2)PK WAVELENGTH (3)MAX. VOLT &(4)TYPE No.

LINE No.	4 TYPE No.	1 MAX. PWR @ 25°C Pcase (W)	2 PEAK WAVE-LENGTH λp (m)	3 MAX. VOLT V (V)	TEMP RNG. CODE - +	LIGHT RESISTANCE Ron (Ω)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURCE	DARK RESISTANCE Roff (Ω)	SECs. AFTER (S)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURCE	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. □-RECT. Δ-STRIP * CHIP
1	VT312	125m	735n	300	16	22k	2.0			C	50MØ	5.0	2.0			C	BB		PC2Ø
2	VT312H	125m	735n	300	16	30k	2.0			C	50MØ	5.0	2.0			C	BB		PC2Ø
3	VT312L	125m	735n	300	16	8.4k	2.0			C	5.0MØ	5.0	2.0			C	BB		PC2Ø
4	VT313L	125m	735n	300	16	60k	2.0			C	100MØ	5.0	2.0			C	BB		PC2Ø
5	VT314	125m	735n	300	16	140k	2.0			C	200MØ	5.0	2.0			C	BB		PC2Ø
6	VT31K	125m	740n	70		1.9k					50M						BB		
7	VT31M	125m	740n	250		50k					500M						BB		
8	CL7P5	125m*	550m	300 Δ	27*	166k	2.0			C	8.3M	5.0	2.0			C	BA		PC56aØ
9	CK1283	150m	515n	125	07	15k	2.0			E	1.0M	5.0	2.0				Dual		PC48aØ
10	CK1228	150m	515n	200	37	130k	2.0			C	50M	10	2.0			C	BA		PC45Ø
11	CK1257	150m	515n	200	37	10k	2.0			C	1.0M	5.0	2.0			C	BA		PC11Ø
12	MPY7C59	150m	520n	150		20kØ	1.0			C	20M	10	40				BA		PC14Ø
13#	MPY7C59%	150m*	520n	150	27	20kØ		10		C	20MØ	10		10		C	BA		PC33Ø
14	MPY7C59E	150m	520n	150		50k	1.0			C	5.0M	10	40				BA		PC14Ø
15	MPY7C69	150m	520n	150		50kØ	1.0			C	30M	10	40				BA		PC14Ø
16#	MPY7C69%	150m*	520n	150	27	50kØ		10		C	30MØ	10		10		C	BA		PC33Ø
17	MPY7C79	150m	520n	150		100kØ	1.0			C	50M	10	40				BA		PC14Ø
18	MPB2-7C39	150m	590n	150		5.0kØ	1.0			C	3.0M	10	40				BB		PC14Ø
19#	MPB2-7C39%	150m*	590n	150	27	5.0kØ		10		C	3.0MØ	10		10		C	BA		PC33Ø
20	MPB2-7C49	150m	590n	150		10kØ	1.0			C	5.0M	10	40				BB		PC14Ø
21#	MPB2-7C49%	150m*	590n	150	27	10kØ		10		C	5.0MØ	10		10		C	BA		PC33Ø
22#	1384S1	150m	600n	200	37*	400 Ø	2.0			C	100k	5.0	2.0			C	BA		PC51Ø
23	CK1255	150m	610n	200	37	3.0k	2.0			C	1.0M	5.0	2.0			C	CF		PC11Ø
24	CK1282	150m	615n	125	07	9.0k	2.0			E	1.0M	5.0	2.0				Dual		PC48aØ
25	CK1227	150m	615n	200	36	100k	2.0			C	50M	5.0	2.0			C	CF		PC45Ø
26#	MPY7C59E%	150m*	620n□	150	37	50kØ		10		C	5.0MØ	10		10		C	BA		PC33Ø
27	CK1281	150m	655n	125	06	4.5k	2.0			E	10M	5.0	2.0				Dual		PC48aØ
28	CK1253	150m	655n	200	37	8.0k	2.0			C	10M	5.0	2.0			C	CF		PC11Ø
29	MKB7H38	150m	700n	150		5.0kØ	1.0			C	100M	10	40				BA		PC14Ø
30#	MKB7H38%	150m*	700n	150	37	5.0k		10		C	100M	5.0		10		C	BB		PC28Ø
31	MKB7H69	150m	700n	300		50kØ	1.0			C	400M	10	40				BA		PC14Ø
32#	MKB7H69%	150m*	700n	300	37	50k		10		C	400M	5.0		10		C	BB		PC28Ø
33	CK1280	150m	715n	125	06	1.5k	2.0			E	10M	5.0	2.0				Dual		PC48aØ
34	CK1284	150m	715n	125	06	25k	2.0			E	100M	5.0	2.0				Dual		PC48aØ
35	CK1206	150m	715n	200		20k	2.0			C	100MØ	5.0	2.0			C	BB		PC45Ø
36	CK1207	150m	715n	200		100k	2.0			C	1.0GØ	5.0	2.0			C	BB		PC45Ø
37	CK1246	150m	715n	200		10k	2.0			C	100M	5.0	2.0			C	BB		PC46Ø
38	CK1247	150m	715n	200		30k	2.0			C	100M	5.0	2.0			C	BB		PC46Ø
39	VT82L	175m	515n	100	16	1.9k	2.0			C	100kØ	5.0	2.0			C	BA		PC3aØ
40	VT833/2	175m	550n	200	16	52k	2.0			C	10MØ	5.0	2.0			C	BA Dual		PC4Ø
41	VT833	175m	550n	300	16	33k	2.0			C	15MØ	5.0	2.0			C	BA		PC3aØ
42	VT835	175m	550n	300	16	330k	2.0			C	100MØ	5.0	2.0			C	BA		PC3aØ
43	VT801	175m	565n	200	16	3.0k	2.0			C	250kØ	5.0	2.0			C	BA		PC3aØ
44	VT804	175m	565n	300	16	140k	2.0			C	50MØ	5.0	2.0			C	BA		PC3aØ
45	VT871	175m	615n	100	16	3.0k	2.0			C	10MØ	5.0	2.0			C	BA		PC3aØ
46	VT871/2	175m	615n	100	16	8.8k	2.0			C	1.0MØ	5.0	2.0			C	BA Dual		PC4Ø
47	VT841/2	175m	675n	75	16	2.4k	2.0			C	550kØ	5.0	2.0			C	BB Dual		PC4Ø
48	VT841L	175m	675n	100	16	900	2.0			C	500kØ	5.0	2.0			C	BB		PC3aØ
49	VT811	175m	735n	70		4.0k	2.0			C	10MØ	5.0	2.0			C	BB		PC3aØ
50	VT811/2	175m	735n	100	16	2.4k	2.0			C	1.0MØ	5.0	2.0			C	BB Dual		PC4Ø
51	VT811H	175m	735n	100		8.0k	2.0			C	10MØ	5.0	2.0			C	BB		PC3aØ
52#	ORP12	200m*		110	16*	300 □		1.0k		G	10M						BA		
53	CK1234	200m	510n	200	47	14k	2.0			C	1.0M	10	2.0			C	BA		PC52bØ
54	CK1258	200m	515n	200	37	12k	2.0			C	100M	5.0	2.0			C	BA		PC11Ø
55	VT14L	200m*	515n	200		600m	2.0			C	100kØ	5.0	2.0			C	BB		PC6Ø
56	VT132	200m*	515n	200		10	2.0			C	5.0MØ	5.0	2.0			C	BA		PC6Ø
57	VT133	200m*	515n	200		28	2.0			C	10MØ	5.0	2.0			C	BA		PC6Ø
58	VT133L	200m*	515n	200		14	2.0			C	5.0MØ	5.0	2.0			C	BA		PC6Ø
59	VT141	200m*	515n	200		1.2	2.0			C	500kØ	5.0	2.0			C	BB		PC6Ø
60	VT141H	200m*	515n	200		2.4	2.0			C	1.0MØ	5.0	2.0			C	BB		PC6Ø
61	VT124	200m*	515n	300		136	2.0			C	50MØ	5.0	2.0			C	BA		PC6Ø
62	VT142	200m*	515n	300		7.0	2.0			C	5.0MØ	5.0	2.0			C	BB		PC6Ø
63	VT142L	200m*	515n	300		4.8	2.0			C	1.0MØ	5.0	2.0			C	BB		PC6Ø
64	VT143	200m*	515n	300		28	2.0			C	10MØ	5.0	2.0			C	BB		PC6Ø
65	VT143L	200m*	515n	300		14	2.0			C	10MØ	5.0	2.0			C	BB		PC6Ø
66	MPY7H59	200m	520n	150		20kØ	1.0			C	20M	10	40				BB		PC14Ø
67#	MPY7H59%	200m*	520n	150	38	20kØ		10		C	20MØ	10		10		C	BA		PC27Ø
68	MPY7H69	200m	520n	150		50kØ	1.0			C	30M	10	40				BA		PC14Ø
69#	MPY7H69%	200m*	520n	150	38	50kØ		10		C	30MØ	10		10		C	BA		PC27Ø
70	MPY7H79	200m	520n	150		100kØ	1.0			C	50M	10	40				BA		PC14Ø
71	MPY12C28	200m	520n	200		2.0kØ	1.0			C	1.0M	10	40				BA		PC14Ø
72#	MPY12C28%	200m*	520n	200	27	2.0kØ		10		C	1.0MØ	10		10		C	BA		PC34Ø
73▼	NSL4921	200m	550n	80		4.0k	1.0	10			1.0M	15	50	500					PCØ
74♦	NSL4922	200m	550n	80		4.0k	1.0	10			1.0M	15	50	500			BA		PC40Ø
75▼	NSL4931	200m	550n	80		1.7k	1.0	10			200k	15	50	500					PCØ
76♦	NSL4932	200m	550n	80		1.7k	1.0	10			200k	15	50	500			BA		PC40Ø
77▼	NSL4941	200m	550n	80		750	1.0	10			40k	15	50	500					PCØ
78♦	NSL4942	200m	550n	80		750	1.0	10			40k	15	50	500			BA		PC40Ø
79	NSL481	200m	550n	120	67	43k	1.0	10		E	65M	15	50	500			BA		PC42Ø
80	NSL482	200m	550n	120	67	18k	1.0	10		E	15M	15	50	500			BA		PC42Ø
81	NSL483	200m	550n	120	67	8.0k	1.0	10		E	1.8M	15	50	500			BA		PC42Ø
82	NSL484	200m	550n	120	67	3.5k	1.0	10		E	250k	15	50	500			BA		PC42Ø
83♦	NSL4812	200m	550n	120		43k	1.0	10			5.0M	15	50	500			BA		PC58Ø
84♦	NSL4822	200m	550n	120		18k	1.0	10			1.5M	15	50	500			BA		PC58Ø
85♦	NSL4832	200m	550n	120		8.0k	1.0	10			500k	15	50	500			BA		PC58Ø
86♦	NSL4842	200m	550n	120		3.5k	1.0	10			100k	15	50	500			BA		PC58Ø
87	CK1233	200m	550n	175	47	7.5k	2.0			C	1.0M	10	2.0			C	CF		PC52bØ
88	NSL485	200m	550n	250	67	330k	1.0	10		E	200M	15	50	500			BA		PC42Ø
89	NSL486	200m	550n	250	67	155k	1.0	10		E	130M	15	50	500			BA		PC42Ø
90	NSL487	200m	550n	250	67	65k	1.0	10		E	20M	15	50	500			BA		PC42Ø
91♦	NSL4852	200m	550n	250		330k	1.0	10			20M	15	50	500			BA		PC58Ø
92♦	NSL4862	200m	550n	250		155k	1.0	10			15M	15	50	500			BA		PC58Ø
93♦	NSL4872	200m	550n	250		65k	1.0	10			2.0M	15	50	500			BA		PC58Ø
94▼	NSL4951	200m	550n	320		40k	1.0	10			4.0M	15	50	500					PCØ
95♦	NSL4952	200m	550n	320		40k	1.0	10			4.0M	15	50	500			BA		PC40Ø
96▼	NSL4961	200m	550n	320		17k	1.0	10			1.0M	15	50	500					PCØ
97♦	NSL4962	200m	550n	320		17k	1.0	10			1.0M	15	50	500			BA		PC40Ø
98▼	NSL4971	200m	550n	320		7.5k	1.0	10			200k	15	50	500					PCØ
99♦	NSL4972	200m	550n	320		7.5k	1.0	10			200k	15	50	500			BA		PC40Ø
100	VT10L	200m*	565n	200		1.6k	2.0			C	100kØ	5.0	2.0			C	BA		PC6Ø
101	VT101	200m*	565n	200		3.0k	2.0			C	300kØ	5.0	2.0			C	BA		PC6Ø
102	VT101H	200m*	565n	200		6.0k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC6Ø
103	VT102	200m*	565n	300		16k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC6Ø
104	VT102L	200m*	565n	300		9.0k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC6Ø
105	VT103	200m*	565n	300		66k	2.0			C	20MØ	5.0	2.0			C	BA		PC6Ø
106	VT103L	200m*	565n	300		32k	2.0			C	10MØ	5.0	2.0			C	BA		PC6Ø
107	VT104	200m*	565n	300		136k	2.0			C	50MØ	5.0	2.0			C	BA		PC6Ø
108	MPB2-7H39	200m	590n	150		5.0 Ø	1.0			C	3.0M	10	40				BB		PC14Ø
109#	MPB2-7H39%	200m*	590n	150	38	5.0kØ		10		C	3.0MØ	10		10		C	BA		PC27Ø
110	MPB2-7H49	200m	590n	150		10 Ø	1.0			C	5.0M	10	40				BB		PC14Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. SENSOR: PHOTOCONDUCTIVE CELL (LDR)

IN ORDER OF:(1)PWR. DISS.-Pcase (2)PK WAVELENGTH (3)MAX. VOLT &(4)TYPE No.

LINE No.	4 TYPE No.	1 MAX. PWR @ 25°C Pcase (W)	2 PEAK WAVE-LENGTH λp (m)	3 MAX. VOLT V (V)	TEMP RNG. CODE - +	LIGHT RESISTANCE Ron (Ω)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURCE	DARK RESISTANCE Roff (Ω)	SECs. AFTER (S)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURCE	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1#	MPB2-7H49%	200m*	590n	150	38	10kØ		10		C	5.0MØ	10		10		C	BA		PC27Ø
2	MKB2-12H49	200m	610n	150	26	10kØ		10		C	10M	10					BB		PC14Ø
3	CK1232	200m	610n	175	47	4.0k	2.0			C	1.0M	10	2.0			C	CF		PC52bØ
4	CK1231	200m	655n	175	47	10k	2.0			C	10M	10	2.0			C	CF		PC52bØ
5	NSL293-2	200m	690n	70	67	45	100			E	10M	15	50	500			CF		PC40Ø
6	NSL294-2	200m	690n	70	67	750	1.0	10		E	10M	15	50	500			CF		PC40Ø
7▼	NSL2941	200m	690n	70		750	1.0	10			2.0M	15	50	500					PCØ
8▼	NSL2942	200m	690n	70		750	1.0	10			2.0M	15	50	500					PCØ
9	NSL297-2	200m	690n	250	67	7.5k	1.0	10		E	100M	15	50	500			CF		PC40Ø
10▼	NSL2971	200m	690n	250		7.5k	1.0	10			10M	15	50	500					PCØ
11▼	NSL2972	200m	690n	250		7.5k	1.0	10			10M	15	50	500					PCØ
12♦	NSL3921	200m	700n	70		4.0k	1.0	10			2.0M	15	50	500			BB		PC39cØ
13♦	NSL3922	200m	700n	70		4.0k	1.0	10			2.0M	15	50	500			BB		PC40Ø
14♦	NSL3931	200m	700n	70		1.7k	1.0	10			2.0M	15	50	500			BB		PC39cØ
15♦	NSL3932	200m	700n	70		1.7k	1.0	10			2.0M	15	50	500			BB		PC40Ø
16♦	NSL3941	200m	700n	70		750k	1.0	10			2.0M	15	50	500			BB		PC39cØ
17♦	NSL3942	200m	700n	70		750	1.0	10			2.0M	15	50	500			BB		PC40Ø
18	NSL381	200m	700n	80	66	43k	1.0	10		E	100M	15	50	500			BB		PC42Ø
19	NSL382	200m	700n	80	66	18k	1.0	10		E	100M	15	50	500			BB		PC42Ø
20	NSL383	200m	700n	80	66	8.0k	1.0	10		E	100M	15	50	500			BB		PC42Ø
21	NSL384	200m	700n	80	66	3.5k	1.0	10		E	100M	15	50	500			BB		PC42Ø
22♦	NSL3812	200m	700n	80		43k	1.0	10			10M	15	50	500			BB		PC58Ø
23♦	NSL3822	200m	700n	80		18k	1.0	10			10M	15	50	500			BB		PC58Ø
24♦	NSL3832	200m	700n	80		8.0k	1.0	10			10M	15	50	500			BB		PC58Ø
25♦	NSL3842	200m	700n	80		3.5k	1.0	10			10M	15	50	500			BB		PC58Ø
26	NSL385	200m	700n	250	66	330k	1.0	10		E	1.0G	15	50	500			BB		PC42Ø
27	NSL386	200m	700n	250	66	155k	1.0	10		E	1.0G	15	50	500			BB		PC42Ø
28	NSL387	200m	700n	250	66	66k	1.0	10		E	1.0G	15	50	500			BB		PC42Ø
29♦	NSL3852	200m	700n	250		330k	1.0	10			100M	15	50	500			BB		PC58Ø
30♦	NSL3862	200m	700n	250		155k	1.0	10			100M	15	50	500			BB		PC58Ø
31♦	NSL3872	200m	700n	250		66k	1.0	10			100M	15	50	500			BB		PC58Ø
32♦	NSL3951	200m	700n	250		40k	1.0	10			5.0M	15	50	500			BB		PC39cØ
33♦	NSL3952	200m	700n	250		40k	1.0	10			5.0M	15	50	500			BB		PC40Ø
34♦	NSL3961	200m	700n	250		17k	1.0	10			5.0M	15	50	500			BB		PC39cØ
35♦	NSL3962	200m	700n	250		17k	1.1	10			5.0M	15	50	500			BB		PC40Ø
36♦	NSL3971	200m	700n	250		7.5k	1.0	10			5.0M	15	50	500			BB		PC39cØ
37♦	NSL3972	200m	700n	250		7.5k	1.0	10			5.0M	15	50	500			BB		PC40Ø
38	CK1285	200m	715n	150	06	120k	2.0			E	100M	5.0	100				Dual		PC48Ø
39	CK1230	200m	715n	175	46	12k	2.0			C	10M	5.0	2.0			C	BB		PC52bØ
40	VT111	200m*	735n	200		2.3k	2.0			C	500kØ	5.0	2.0			C	BB		PC6Ø
41	VT111H	200m*	735n	200		4.6k	2.0			C	1.0MØ	5.0	2.0			C	BB		PC6Ø
42	VT121	200m*	735n	200		3.0k	2.0			C	300kØ	5.0	2.0			C	BA		PC6Ø
43	VT121H	200m*	735n	200		6.0k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC6Ø
44	VT112	200m*	735n	300		22k	2.0			C	50MØ	5.0	2.0			C	BB		PC6Ø
45	VT112L	200m*	735n	300		9.2k	2.0			C	5.0MØ	5.0	2.0			C	BB		PC6Ø
46	VT113	200m*	735n	300		60k	2.0			C	100MØ	5.0	2.0			C	BB		PC6Ø
47	VT113L	200m*	735n	300		44k	2.0			C	100MØ	5.0	2.0			C	BB		PC6Ø
48	VT122	200m*	735n	300		16k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC6Ø
49	VT122L	200m*	735n	300		9.0k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC6Ø
50	VT123	200m*	735n	300		66k	2.0			C	20MØ	5.0	2.0			C	BA		PC6Ø
51	VT123L	200m*	735n	300		32k	2.0			C	10MØ	5.0	2.0			C	BA		PC6Ø
52	NSL41385	250m	500n	150	67	18k	1.0			E	6.0MØ	15	50				BA		PC54☑
53	CK1275	250m	515n	125		6.0k	2.0			C	1.0M	5.0	2.0			C	Dual		PC47Ø
54	CK1278	250m	515n	125	36	12k	2.0			E	1.0M	5.0	2.0				Dual		PC47aØ
55	CK1279	250m	515n	125	36	1.2k☑	100			E	1.0MØ	5.0	100				Dual		PC47aØ
56	VT721	250m	515n	300	16	2.6k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC3bØ
57	VT721H	250m	515n	300	16	4.8k	2.0			C	2.0MØ	5.0	2.0			C	BA		PC3bØ
58	VT721HE	250m	515n	300	16	5.5k	2.0			C	2.0MØ	5.0	2.0			C	BA		PC5Ø
59	VT74L	250m	550n	100	16	450	2.0			C	500kØ	5.0	2.0			C	BB		PC3bØ
60♦	NSL41386	250m	550n	150	67	8.0k	1.0	10		E	6.0MØ	15	50	500			BA		PC54☑
61♦	NSL41387	250m	550n	150	67	3.5k	1.0	10		E	1.0MØ	15	50	500			BA		PC54☑
62♦	NSL41388	250m	550n	150	67	1.6k	1.0	10		E	540kØ	15	50	500			BA		PC54☑
63	CL5P5L	250m*	550n	170 Δ	27*	1.5k	2.0			C	75k	5.0	2.0			C	BA		PC56Ø
64	CL5P5	250m*	550n	250 Δ	27*	9.0k	2.0			C	450k	5.0	2.0			C	BA		PC56Ø
65	CL5P5M	250m*	550n	250	27*	6.0k	2.0			C	400k	5.0	2.0			C	BA		PC56Ø
66	CL5P9M	250m*	550n	250	27*	9.0k	2.0			C	6.0M	5.0	2.0			C	BA		PC56Ø
67	VT732	250m	550n	300	16	10k	2.0			C	10MØ	5.0	2.0			C	BA		PC3bØ
68	VT732E	250m	550n	300	16	11k	2.0			C	10MØ	5.0	2.0			C	BA		PC5Ø
69▼	NORP11	250m	550n	320	67	20k	1.0	10		E	2.5M	15	50	500		E	BA		PC61Ø
70▼	NORP12	250m	550n	320	67	9.0k	1.0	10		E	1.0M	15	50	500		E	BA		PC61Ø
71▼	NORP13	250m	550n	320	67	4.0k	1.0	10		E	500k	15	50	500		E	BA		PC61Ø
72	VT701E	250m	565n	100	16	3.3k	2.0			C	300kØ	5.0	2.0			C	BA		PC5Ø
73	VT70L	250m	565n	200	16	1.6k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC3bØ
74	VT701	250m	565n	200	16	3.0k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC3bØ
75	VT702E	250m	565n	300	16	17k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC5Ø
76	CK1256	250m	610n	250	37	4.0k	2.0			C	10M	5.0	2.0			C	CF		PC11Ø
77	VT771	250m	615n	150	16	2.0k	2.0			C	2.0MØ	5.0	2.0			C	BA		PC3bØ
78	CK1274	250m	655n	125	36	6.5k	2.0			E	10M	5.0	2.0				Dual		PC47Ø
79	CK1277	250m	655n	125	36	7.5k	2.0			E	10M	5.0	2.0				Dual		PC47aØ
80	CK1254	250m	655n	300	37	10k	2.0			C	10M	5.0	2.0			C	CF		PC11Ø
81	VT741	250m	675n	100	16	900	2.0			C	500kØ	5.0	2.0			C	BB		PC3bØ
82	VT741E	250m	675n	100	16	1.3k	2.0			C	500kØ	5.0	2.0			C	BB		PC5Ø
83	CL5P4L	250m*	690n	170 Δ	27*	450	2.0			C	120k	5.0	2.0			C	BB		PC56Ø
84	CL5P4	250m*	690n	250 Δ	27*	2.7k	2.0			C	720k	5.0	2.0			C	BB		PC56Ø
85	CK1273	250m	715n	125	36	1.5k	2.0			E	10M	5.0	2.0				Dual		PC47Ø
86	CK1276	250m	715n	125	37	1.8k	2.0			E	10M	5.0	2.0				Dual		PC47Ø
87	CK1252	250m	715n	300	36	12k	2.0			C	100M	5.0	2.0			C	BB		PC11Ø
88	VT712E	250m	735n	300	16	24k	2.0			C	20MØ	5.0	2.0			C	BB		PC5Ø
89	VT773	250m	615m	300	16	8.4k	2.0			C	10MØ	5.0	2.0			C	BA		PC3bØ
90#	RPY82	300m*		100	47*	950		50		G	6.0M	20				G	BA		PC22Δ
91	MPY12C39	300m	520n	200		5.0kØ	1.0			C	2.0M	10	40				BA		PC14Ø
92#	MPY12C39%	300m*	520n	200	27	5.0kØ		10		C	2.0MØ	10		10		C	BA		PC34Ø
93	MPY12C49E	300m	520n	200		15k	1.0			C	2.0M	10	40				BA		PC14Ø
94#	MPY12C49E%	300m*	520n	200	37	15kØ		10		C	2.0MØ	10		10		C	BA		PC34Ø
95	MPY12H28	300m	520n	200		2.0kØ	1.0			C	1.0M	10	40				BA		PC14Ø
96#	MPY12H28%	300m*	520n	200	38	2.0kØ		10		C	1.0MØ	10		10		C	BA		PC30Ø
97	MPY12C49	300m	520n	300		10kØ	1.0			C	5.0M	10	40				BA		PC14Ø
98#	MPY12C49%	300m*	520n	300	27	10kØ		10		C	5.0MØ	10		10		C	BA		PC34Ø
99#	FWC9801	300m	575n	100	36*	3.0k		50		C	800kØ	1.0				C	BA		PC38☑
100#	FWC9802	300m	575n	250	37*	9.0k		50		C	800kØ	1.0				C	BA		PC38☑
101	MPB2-12H49	300m	590n	150		10kØ	1.0			C	10M	10	40				BB		PC14Ø
102#	MPB2-12H49%	300m*	590n	150	38	10kØ		10		C	10MØ	10		10		C	BA		PC30Ø
103#	ORP52	400m*		200	47*	1.2k		50		G	4.0M	20				G	BA		PC16Ø
104#	RPY18	500m*		100	47*	400		50		G	5.6M	20				G	BA		PC19☑
105#	RPY85	500m*		200		1.1k		50		G	9.0M	20				G	BA		PC22bΔ
106#	RPY19	500m*		400	47*	3.0k		50		G	10M	20				G	BA		PC19☑
107▼	NSL593	500m	440n	70		30k	1.0	10			1.5MØ	15	50	500					PC39dØ
108▼	NSL5931	500m	440n	70	67	30k	1.0	10		E	500k	15	50	500		E			PC60Ø
109▼	NSL5932	500m	440n	70	67	30k	1.0	10		E	500k	15	50	500		E			PC40aØ
110	CL5M2L	500m*	515n	170 Δ	57*	9.0k	2.0			C	600k	5.0	2.0			C	BA		PC11Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

16. SENSOR: PHOTOCONDUCTIVE CELL (LDR)

IN ORDER OF:(1)PWR. DISS.-Pcase
(2)PK WAVELENGTH (3)MAX. VOLT &(4)TYPE No.

LINE No.	4 TYPE No.	1 MAX. PWR @ 25°C Pcase (W)	2 PEAK WAVE-LENGTH λp (m)	3 MAX. VOLT V (V)	TEMP RNG. CODE - +	LIGHT RESISTANCE Ron (Ω)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURC	DARK RESISTANCE Roff (Ω)	SECs. AFTER (S)	Ev (fc)	Ev (lx)	Ee (W/cm2)	SOURC	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1	VT521	500m	515n	200	16	2.6k	2.0			C	100kØ	5.0	2.0			C	BA		PC1aØ
2	CL5M2	500m*	515n	250 Δ	57*	55k	2.0			C	3.6M	5.0	2.0			C	BA		PC11Ø
3	VT521H	500m	515n	300	16	5.0k	2.0			C	500kØ	5.0	2.0			C	BA		PC1aØ
4	VT522	500m	515n	300	16	18k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC1aØ
5	VT522L	500m	515n	300	16	9.0k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC1aØ
6	VT523L	500m	515n	300	16	36k	2.0			C	10MØ	5.0	2.0			C	BA		PC1aØ
7	MPY12H39	500m	520n	200		5.0kØ	1.0			C	2.0M	10	40				BA		PC14Ø
8#	MPY12H39%	500m*	520n	200	38	5.0kØ		10		C	2.0MØ	10		10		C	BA		PC30Ø
9	MPY12H46	500m	520n	300		10kØ	1.0			C	600k	10	40				BA		PC14Ø
10#	MPY12H46%	500m*	520n	300	38	10kØ		10		C	600kØ	10		10		C	BA		PC30Ø
11	MPY12H49	500m	520n	300		10kØ	1.0			C	5.0M	10	40				BA		PC14Ø
12#	MPY12H49%	500m*	520n	300	38	10kØ		10		C	5.0MØ	10		10		C	BA		PC30Ø
13	MPY12H59	500m	520n	300		20kØ	1.0			C	10M	10	40				BA		PC14Ø
14#	MPY20C39E	500m*	520n	500	37	2.0kØ		100		C	500kØ	10		100		C	BA		PC35Ø
15	NSL491	500m	550n	80	67	9.3k	1.0	10		E	14M	15	50	500			BA		PC39Ø
16	NSL492	500m	550n	80	67	4.0k	1.0	10		E	3.2M	15	50	500			BA		PC39Ø
17	NSL493	500m	550n	80	67	1.7k	1.0	10		E	400k	15	50	500			BA		PC39Ø
18	NSL494	500m	550n	80	67	750	1.0	10		E	50k	15	50	500			BA		PC39Ø
19	CL5M5L	500m*	550n	170 Δ	57*	1.5k	2.0			C	100k	5.0	2.0			C	BA		PC11Ø
20	CL5M9M	500m*	550n	170 Δ	57*	11k	2.0			C	3.7M	5.0	2.0			C	BA		PC11Ø
21	VT54L	500m	550n	200	16	250	2.0			C	100kØ	5.0	2.0			C	BB		PC1aØ
22	VT533	500m	550n	200	16	25k	2.0			C	10MØ	5.0	2.0			C	BA		PC1aØ
23	VT533L	500m	550n	200	16	12k	2.0			C	5.0MØ	5.0	2.0			C	BA		PC1aØ
24	VT541	500m	550n	200	16	500	2.0			C	500kØ	5.0	2.0			C	BB		PC1aØ
25	VT541H	500m	550n	200	16	1.0k	2.0			C	1.0MØ	5.0	2.0			C	BB		PC1aØ
26	CL5M5	500m*	550n	250 Δ	57*	9.0k	2.0			C	600k	5.0	2.0			C	BA		PC11Ø
27	VT542	500m	550n	300	16	2.0k	2.0			C	1.0MØ	5.0	2.0			C	BB		PC1aØ
28	VT542L	500m	550n	300	16	1.5k	2.0			C	1.0MØ	5.0	2.0			C	BB		PC1aØ
29	NSL495	500m	550n	320	67	40k	1.0	10		E	32M	15	50	500			BA		PC39Ø
30	NSL496	500m	550n	320	67	17k	1.0	10		E	4.0M	15	50	500			BA		PC39Ø
31	NSL497	500m	550n	320	67	7.5k	1.0	10		E	540k	15	50	500			BA		PC39Ø
32	NSL445-2	500m	550n	420	67	26k	1.0	10		E	15M	15	50	500			BA		PC44Ø
33	NSL446-2	500m	550n	420	67	11k	1.0	10		E	5.0M	15	50	500			BA		PC44Ø
34	NSL447-2	500m	550n	420	67	5.5k	1.0	10		E	1.0M	15	50	500			BA		PC44Ø
35▼	NSL4432	500m	550n	1.0k		200k	1.0	10			30M	15	50	500					PCØ
36▼	NSL4442	500m	550n	1.0k		120k	1.0	10			10M	15	50	500					PCØ
37▼	NSL4452	500m	550n	1.0k		26k	1.0	10			1.5M	15	50	500					PCØ
38▼	NSL4462	500m	550n	1.0k		11k	1.0	10			500k	15	50	500					PCØ
39▼	NSL4472	500m	550n	1.0k		5.5k	1.0	10			200k	15	50	500					PCØ
40	NSL443-2	500m	550n	2.0k	67	10k	35			E	300M	15	50	500			BA		PC44Ø
41	NSL444-2	500m	550n	2.0k	67	5.5k	35			E	100M	15	50	500			BA		PC44Ø
42	VT50L	500m	565n	200	16	1.3k	2.0			C	100kØ	5.0	2.0			C	BA		PC1aØ
43	VT501	500m	565n	200	16	2.6k	2.0			C	200kØ	5.0	2.0			C	BA		PC1aØ
44	VT501H	500m	565n	300	16	4.0k	2.0			C	500kØ	5.0	2.0			C	BA		PC1aØ
45	VT502	500m	565n	300	16	16k	2.0			C	50MØ	5.0	2.0			C	BA		PC1aØ
46	VT502L	500m	565n	300	16	8.0k	2.0			C	1.0MØ	5.0	2.0			C	BA		PC1aØ
47	VT503	500m	565n	300	16	66k	2.0			C	50MØ	5.0	2.0			C	BA		PC1aØ
48	VT503L	500m	565n	300	16	32k	2.0			C	10MØ	5.0	2.0			C	BA		PC1aØ
49	CL5M7	500m*	615n	250 Δ	57*	7.2k	2.0			C	1.4M	5.0	2.0			C	BA		PC11Ø
50	NSL293	500m	690n	70	67	45	100			E	10M	15	50	500			CF		PC39Ø
51	NSL294	500m	690n	70	67	750	1.0	10		E	10M	15	50	500			CF		PC39Ø
52	CL5M4L	500m*	690n	170 Δ	57*	250	2.0			C	67k	5.0	2.0			C	BB		PC11Ø
53	CL5M4	500m*	690n	250 Δ	57*	1.5k	2.0			C	400k	5.0	2.0			C	BB		PC11Ø
54	NSL297	500m	690n	250	67	7.5k	1.0	10		E	100M	15	50	500			CF		PC39Ø
55	NSL392	500m	700n	70	66	4.0k	1.0	10		E	10M	15	50	500			BB		PC39Ø
56	NSL393	500m	700n	70	66	1.7k	1.0	10		E	10M	15	50	500			BB		PC39Ø
57	NSL394	500m	700n	70	66	750	1.0	10		E	10M	15	50	500			BB		PC39Ø
58	NSL395	500m	700n	250	66	40k	1.0	10		E	20M	15	50	500			BB		PC39Ø
59	NSL396	500m	700n	250	66	17k	1.0	10		E	20M	15	50	500			BB		PC39Ø
60	NSL397	500m	700n	250	66	7.5k	1.0	10		E	20M	15	50	500			BB		PC39Ø
61	CK1271	500m	710n	200	57	75 ☑	100			E	10MØ					E	BB		PC1bØ
62	VT51L	500m	735n	200	16	700	2.0			C	100kØ	5.0	2.0			C	BB		PC1aØ
63	VT511	500m	735n	200	16	2.3k	2.0			C	500kØ	5.0	2.0			C	BB		PC1aØ
64	VT511L	500m	735n	200	16	1.4k	2.0			C	200kØ	5.0	2.0			C	BB		PC1aØ
65	CL5M3	500m*	735n	250 Δ	57*	7.2k	2.0			C	48M	5.0	2.0			C	BB		PC11Ø
66	VT511H	500m	735n	300	16	4.6k	2.0			C	1.0MØ	5.0	2.0			C	BB		PC1aØ
67	VT512L	500m	735n	300	16	9.2k	2.0			C	20MØ	5.0	2.0			C	BB		PC1aØ
68	CK1289	600m	515n	300	47	12k	2.0			C	100M	10	2.0			C	CF		PC53Ø
69	VT431	600m	550n	350		6.0k	2.0			B	1.0M	5.0					BA		
70	VT432	600m	550n	350		10k	2.0			B	1.0M	5.0					BA		
71	VT433	600m	550n	350		18k	2.0			B	10M	5.0					BA		
72	VT434	600m	550n	350		32k	2.0			B	10M	5.0					BA		
73	VT435	600m	550n	350		60k	2.0			B	10M	5.0					BA		
74	VT436	600m	550n	350		110k	2.0			B	10M	5.0					BA		
75	CK1288	600m	555n	300	47	9.0k	2.0			C	100M	10	2.0			C	CF		PC53Ø
76	VT471	600m	615n	150		900	2.0			B	300k	5.0					BS		
77	CK1287	600m	655n	300	47	6.5k	2.0			C	100M	10	2.0			C	CF		PC53Ø
78	VT401	600m	665n	100		1.0k	2.0			B	250k	5.0					BA		
79	VT402	600m	665n	300		9.0k	2.0			B	1.0M	5.0					BA		
80	CK1286	600m	715n	300	47	12k	2.0			C	100M	10	2.0			C	BB		PC53Ø
81#	RPY84	750m*		400	47*	1.1k		50		G	9.0M	20				G	BA		PC22aΔ
82	MPY25C38	750m	520n	500		5.0kØ	1.0			C	5.0M	10	40				BA		PC14Ø
83#	MPY25C38%	750m*	520n	500	37	5.0kØ		10		C	2.0MØ	10		10		C	BA		PC36Ø
84	MPY25C49	750m	520n	500		10kØ	1.0			C	5.0M	10	40				BA		PC14Ø
85#	MPY25C49%	750m*	520n	500	37	10kØ		10		C	5.0MØ	10		10		C	BA		PC36Ø
86	MPY25R38	750m	520n	500		5.0kØ	1.0			C	5.0M	10	40				BA		PC14Ø
87#	MPY25R38%	750m*	520n	500	37	5.0kØ		10		C	2.0MØ	10		10		C	BA		PC37Ø
88	MPY25R49	750m	520n	500		10kØ	1.0			C	5.0M	10	40				BA		PC14Ø
89#	MPY25R49%	750m*	520n	500	37	10kØ		10		C	5.0MØ	10		10		C	BA		PC37Ø
90	MPY25R59	750m	520n	500		20kØ	1.0			C	10M	10	40				BA		PC14Ø
91#	RPY55	1.0 *		200	47*	420		50		G	3.0M	20				G	BA		PC15Ø
92#	ORP23	1.0 *		400	47*	3.3k		50		G	10M	20				G	BA		PC15Ø
93#	RPY20	1.0 *		400	47*	1.5k		50		G	6.5M	20				G	BA		PC19a☑
94	CK1290	1.0	510n	450	47	6.5k	2.0			C	10M	10	2.0			C	BA		PC15aØ
95	CK1291	1.0	510n	450	47	12k	2.0			C	10M	10	2.0			C	BA		PC15aØ
96	MPY25H38	1.0	520n	800		5.0kØ	1.0			C	5.0M	10	40				BA		PC14Ø
97#	MPY25H38%	1.0 *	520n	800	37	5.0kØ		10		C	3.0MØ	10		10		C	BA		PC31Ø
98	MPY25H49	1.0	520n	800		10kØ	1.0			C	5.0M	10	40				BA		PC14Ø
99#	MPY25H49%	1.0 *	520n	800	37	10kØ		10		C	5.0MØ	10		10		C	BA		PC31Ø
100	CK1292	1.0	550n	450	47	5.0k	2.0			C	10M	10	2.0			C	CF		PC15aØ
101♦	NSL443	1.0	550n	1.0k	67	10k	35			E	300M	15	50	500			BA		PC43Ø
102♦	NSL444	1.0	550n	1.0k	67	120k	1.0	10		E	10M	15	50	500			BA		PC43Ø
103♦	NSL445	1.0	550n	1.0k	67	26k	1.0	10		E	15M	15	50	500			BA		PC43Ø
104♦	NSL446	1.0	550n	1.0k	67	11k	1.0	10		E	5.0M	15	50	500			BA		PC43Ø
105♦	NSL447	1.0	550n	1.0k	67	5.5k	1.0	10		E	500k	15	50	500			BA		PC43Ø
106	CK1293	1.0	610n	450	47	3.0k	2.0			C	100M	10	2.0			C	CF		PC15aØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	4 TYPE No	ACTIVE SURFACE	1 CELL USE	2 MIN. OUTPUT CURR-Io Δ-Isc (A)	3 MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SOURCE	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1#	MS15	.500x.500 in	ID		28mΔ		500m			E	900n		6F*		AD	A	PV43☑
2#	BPX40	.0032 in sq	ID	10uΔ	330mΔ			1.0k	7.7m	G	800n	18	6C§		AD	A	PV37bΔ
3#	BPX41	.0097 in sq	ID	30uΔ	330mΔ			1.0k	7.7m	G	800n	18	6C§		AD	A	PV37cΔ
4▼	NSL8932	24 sq mm	ID	100uΔ	300mΔ		50				940n		26		AD	A	PV147Ø
5#	BPX42	.0392 in sq	ID	110uΔ	330mΔ			1.0k	7.7m	G	800n	12	6C§		AD	A	PV63Δ
6#	MP55	.035 in sq	ID	700mΔ	350mΔ			1.0k		C	700n			P			PV112☑
7#	MM53	.023 in sq	ID	900mΔ	340mΔ			1.0k		C	700n			N			PV113☑
8	ZR10EB	1.310 in dia	LD		320mtΔ		10k				575n	6.0	57		AC		PV16Ø
9	ZR10MB	1.310 in dia	LD		320mtΔ		10k				575n	6.0	57		AC		PV15Ø
10	ZR75EB	1.500 in dia	LD		320mtΔ		10k				575n	6.0	57		AC		PV16aØ
11	ZR100GB	1.750 in dia	LD		320mtΔ		10k				575n	6.0	57		AC	B	PV19Ø
12	ZR100KB	1.750 in dia	LD		320mtΔ		10k				575n	6.0	57		AC	B	PV18Ø
13	ZR100MB	1.750 in dia	LD		320mtΔ		10k				575n	6.0	57		AC		PV17Ø
14	ZRX80EB	.810 in dia	LD		320mtΔ		10k				575n	6.0	57		AC		PV13☑
15	ZRX80HB	.810 in dia	LD		320mtΔ		10k				575n	6.0	57		AC		PV13☑
16	ZRX80TB	.810 in dia	LD		320mtΔ		10k				575n	6.0	57		AC	B	PV14☑
17	ZS14LB	2.200 sq in	LD		320mtΔ		10k			C	575n	6.0	57		AC		PV11m☑
18	ZS17LB	.140 sq in	LD		320mtΔ		10k			C	575n	6.0	57		AC		PV11n☑
19	ZS50LB	.720 sq in	LD		320mtΔ		10k			C	575n	6.0	57		AC		PV11p☑
20	ZS55LB	2.280 sq in	LD		320mtΔ		10k			C	575n	6.0	57		AC		PV11q☑
21	ZS56LB	1.770 sq in	LD		320mtΔ		10k			C	575n	6.0	57		AC		PV11r☑
22	ZS100EB	1.50x.700 in	LD		320mtΔ		10k				575n	6.0	57		AC	A	PV12☑
23	ZS100LB	1.050 sq in	LD		320mtΔ		10k			C	575n	6.0	57		AC		PV11s☑
24	ZS150LB	.950 sq in	LD		320mtΔ		10k			C	575n	6.0	57		AC		PV11t☑
25#	MS611	.351x.393 in	LD		330mΔt			100	100u	C	620n				AD		PV38c☑
26#	MS612	.401x.401 in	LD		330mΔt			100	100u	C	620n				AD		PV44☑
27	R10EB	1.310 in dia	LD		500mtΔ		10k				575n	6.0	57		AC		PV16Ø
28	R10MB	1.310 in dia	LD		500mtΔ		10k				575n	6.0	57		AC		PV15Ø
29	R75EB	1.500 in dia	LD		500mtΔ		10k				575n	6.0	57		AC		PV16aØ
30	R100GB	1.750 in dia	LD		500mtΔ		10k				575n	6.0	57		AC	B	PV19Ø
31	R100KB	1.750 in dia	LD		500mtΔ		10k				575n	6.0	57		AC	B	PV18Ø
32	R100MB	1.750 in dia	LD		500mtΔ		10k				575n	6.0	57		AC		PV17Ø
33	RX80EB	.810 in dia	LD		500mtΔ		10k				575n	6.0	57		AC		PV13☑
34	RX80HB	.810 in dia	LD		500mtΔ		10k				575n	6.0	57		AC		PV13☑
35	RX80TB	.810 in dia	LD		500mtΔ		10k				575n	6.0	57		AC	B	PV14☑
36	S14LB	2.200 sq in	LD		500mtΔ		10k			C	575n	6.0	57		AC		PV11m☑
37	S17LB	.140 sq in	LD		500mtΔ		10k			C	575n	6.0	57		AC		PV11n☑
38	S50LB	.720 sq in	LD		500mtΔ		10k			C	575n	6.0	57		AC		PV11p☑
39	S55LB	2.280 sq in	LD		500mtΔ		10k			C	575n	6.0	57		AC		PV11q☑
40	S56LB	1.770 sq in	LD		500mtΔ		10k			C	575n	6.0	57		AC		PV11r☑
41	S100EB	1.50x.700 in	LD		500mtΔ		10k				575n	6.0	57		AC	A	PV12☑
42	S100LB	1.050 sq in	LD		500mtΔ		10k			C	575n	6.0	57		AC		PV11s☑
43	S150LB	.950 sq in	LD		500mtΔ		10k			C	575n	6.0	57		AC		PV11t☑
44	VR10EB	1.310 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC		PV16Ø
45	VR10MB	1.310 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC		PV15Ø
46	VR75EB	1.500 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC		PV16aØ
47	VR100GB	1.750 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC	B	PV19Ø
48	VR100KB	1.750 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC	B	PV18Ø
49	VR100MB	1.750 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC		PV17Ø
50	VRX80EB	.810 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC		PV13☑
51	VRX80HB	.810 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC		PV1e☑
52	VRX80TB	.810 in dia	LD		500mtΔ		10k				560n§	6.0	57		AC	B	PV14☑
53	VS14LB	2.200 sq in	LD		500mtΔ		10k			C	560n§	6.0	57		AC		PV11m☑
54	VS17LB	.140 sq in	LD		500mtΔ		10k			C	560n§	6.0	57		AC		PV11n☑
55	VS50LB	.720 sq in	LD		500mtΔ		10k			C	560n§	6.0	57		AC		PV11p☑
56	VS55LB	2.280 sq in	LD		500mtΔ		10k			C	560n§	6.0	57		AC		PV11q☑
57	VS56LB	1.770 sq in	LD		500mtΔ		10k			C	560n§	6.0	57		AC		PV11r☑
58	VS100EB	1.50x.700 in	LD		500mtΔ		10k				560n§	6.0	57		AC	A	PV12☑
59	VS100LB	1.050 sq in	LD		500mtΔ		10k			C	560n§	6.0	57		AC		PV11s☑
60	VS150LB	.950 sq in	LD		500mtΔ		10k			C	560n§	6.0	57		AC		PV11t☑
61#	MS601	.133x.133 in	LD	1.0uΔt	320mΔt			100	100u	C	560n				AD	A	PV29cØ
62#	MS600	.133x.133 in	LD	1.0uΔt	330mΔt			100	100u	C	620n				AD	A	PV29bØ
63#	SPD541	.310 sq in	LD	1.17utΔ	350mΔ		100			C	850n		16*	P	AD	B	PV75☑
64#	BP100	10m	LD	1.9u	160m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94☑
65#	SPD111	.486 sq in	LD	1.96utΔ	350mΔ		100			C	850n		16*	P	AD	A	PV13aØ
66#	SPD110	.486 sq in	LD	2.04utΔ	350mΔ		100			C	850n		28*	P	AD	B	PV71Ø
67#	58B	.014 Sq in*	LD	2.5uΔt	220mΔt				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bq☑
68#	58BL	.014 Sq in*	LD	2.5uΔt	220mΔt				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bq☑
69#	BPY11P	.011 sq in	LD	2.8uΔ	180mΔ			100		C	850n	1.0	5A*		AD	B	PV137☑
70#	BPY11P/I	.011 sq in	LD	2.8uΔ	180mΔ			100		C	850n	1.0	5A*		AD	B	PV137☑
71#	BPY11	10m	LD	2.8u	280m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94☑
72#	BPY11I	10m	LD	2.8u	280m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94☑
73#	BPY11P/II	.011 sq in	LD	3.2uΔ	180mΔ			100		C	850n	1.0	5A*		AD	B	PV137☑
74#	BPY11II	10m	LD	3.3u	280m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94☑
75#	BPY11P/III	.011 sq in	LD	4.0uΔ	180mΔ			100		C	850n	1.0	5A*		AD	B	PV137☑
76#	BPY11III	10m	LD	4.0u	280m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94☑
77#	SBC255	.019 sq in	LD	4.4uΔ	180mΔ		10			C	560n		28*		AD	B	PV79☑
78#	BPW21	.0116 Sq In	LD	4.5uΔ	280m					C	565n	10	2A*	P	AD	A§	PV29Ø
79#	BPY11P/IV	.011 sq in	LD	4.7uΔ	180mΔ			100		C	850n	1.0	5A*		AD	B	PV137☑
80#	BPW21M	.0116 Sq In	LD	5.0uΔ	280m					C	565n	10	6A*	P	AD	A§	PV29Ø
81	VTS2077	.013 sq in	LD	5.0uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1r☑
82	VTS3077	.013 sq in	LD	5.0uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1z☑
83#	MS610	.199x.240 in	LD	5.0uΔt	330mΔt			100	100u	C	620n				AD		PV38b☑
84#	55B	.03 Sq in*	LD	5.4uΔt	220mΔt				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bp☑
85#	55BL	.03 Sq in*	LD	5.4uΔt	220mΔt				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bp☑
86	GB100-18	.008 sq in	LD	6.0uΔ	100mΔ		10		1.0m		555n		5A*		AD	G	TO18
87	VTS1076	.016 sq in	LD	6.0uΔ	300mtΔ		10			C	750n			P	AD BES		PV25Ø
88	VTS2076	.016 sq in	LD	6.0uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1s☑
89	VTS3076	.016 sq in	LD	6.0uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1aa☑
90	VTS5076	.016 sq in	LD	6.0uΔ	300mtΔ		10			C	750n			P	AD BES		PV27Ø
91	VB100-8	.031 sq in	LD	7uΔ	180mΔ		10		1.0m		400n		5A*		AD	G	TO8
92#	BPY11P/VI	.011 sq in	LD	7.1uΔ	180mΔ			100		C	850n	1.0	5A*		AD	B	PV137☑
93	B2Δ	.260 sq in	LD	7.7ut			100				600n		28		AC		PV1j☑
94#	BPX79	30m	LD	10u	220m		9.2	100	600u	C	800n	1.0	5A*	P	AD	A	PV95☑
95#	BPW12	.0058 in sq	LD	10u	250m					C	750n	10	2A*	P	AD	A§	PV29aØ
96	CLD41	.002 sq in	LD	10uΔ	300mΔ				5.0m	C	950n		5C	P	AD	B	PV142
97#	51B	.06 Sq in*	LD	11uΔt	220mΔt				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bn☑
98#	51BL	.06 Sq in*	LD	11uΔt	220mΔt				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bn☑
99	VTS5078	.028 sq in	LD	11uΔ	300mtΔ		10			C	750n			P	AD BES		PV27Ø
100	A2	.045 sq in	LD	12ut			100				600n		28		AC		PV5Ø
101	VTS2075	.032 sq in	LD	13uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1t☑
102	VTS3075	.032 sq in	LD	13uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1ab☑
103	VTS4075	.032 sq in	LD	13uΔ	300mtΔ		10			C	750n			P	AD BES		PV26Ø
104	ZRX5LB	.035 sq in	LD	14u	320mtΔ		100			C	575n	6.0	57		AC		PV20Ø
105	RX5LB	.035 sq in	LD	14u	500mtΔ		100			C	575n	6.0	57		AC		PV20Ø
106	VRX5LB	.035 sq in	LD	14u	500mtΔ		100			C	560n§	6.0	57		AC		PV20Ø
107#	SBC102	.078 sq in	LD	15uΔ	180mΔ		10			C	560n		28*		AD	A	PV70Ø
108	ST410-1	.015 sq in	LD	15uΔ	180mΔ				5.0m	C	850n		5A		AD		
109	ST410-3	.015 sq in	LD	15uΔ	180mΔ				5.0m	c	850n		5A		AD		PV1aa☑
110	ST555-1	.095 cm sq	LD	15utΔ	180mΔ		10			C	555n		5A*		AD TO5 Pkg		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	4 TYPE No	ACTIVE SURFACE	1 CELL USE	2 MIN. OUTPUT CURR-Io Δ-Isc (A)	3 MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/ cm2)	SOURC	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	VB100-2	.016 sq in	LD	15uΔ	180mΔ		10		1.0m		400n		5A*		AD		PV4v☑
2	VB100-5	.016 sq in	LD	15uΔ	180mΔ		10		1.0m		400n		5A*		AD	G	TO5
3	GB100-2	.016 sq in	LD	16uΔ	100mΔ		10		1.0m		555n		5A*		AD		PV4v☑
4	GB100-5	.016 sq in	LD	16uΔ	100mΔ		10		1.0m		555n		5A*		AD	G	TO5
5#	BPY64	49m	LD	16u	300m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94d☑
6#	BPY64P	.049 sq in	LD	18u	150m		9.2	100		C	850n	1.0	5A	P	AD	A	PV94d☑
7	A3Δ	.060 sq in	LD	20uŧ			100				600n		28		AC		PV5aØ
8	SS400-3	.130x.050 in	LD	20u	250m		1.2k			F			6H		AD	A	PV55Ø
9	SS400-4	.130x.050 in	LD	20u	250m		1.2k			F			6H		AD	A	PV55Ø
10	ZRX10LB	.050 sq in	LD	20u	320mtΔ		100			C	575n	6.0	57		AC		PV20aØ
11#	BPW20	.0116 Sq In	LD	20uΔ	330m					C	700n	10	2A*	P	AD	A§	PV29Ø
12	RX10LB	.050 sq in	LD	20u	500mtΔ		100			C	575n	6.0	57		AC		PV20aØ
13	VRX10LB	.050 sq in	LD	20u	500mtΔ		100			C	560n§	6.0	57		AC		PV20aØ
14#	PD5151	.0069sq in	LD	22uΔ	300mΔ			1.0k		B	850n		17*		AD	A	PV133Ø
15#	52B	.12 Sq in*	LD	23uΔŧ	220mΔŧ				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bm☑
16#	52BL	.12 Sq in*	LD	23uΔŧ	220mΔŧ				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bm☑
17#	CSC11	.137 sq in	LD*	25u	280m				200u	F	900n						PV90aØ
18#	CSC12	.137 sq in	LD*	25u	280m				200u	F	900n						PV90Ø
19	VTS2074	.065 sq in	LD	26uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1u☑
20	VTS3074	.065 sq in	LD	26uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1ac☑
21#	110B	.14 Sq in*	LD	27uΔŧ	220mΔŧ				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bk☑
22#	110BL	.14 Sq in*	LD	27uΔŧ	220mΔŧ				100u	F	900n	1.0	6C*	P	AD;BLUE		PV1bk☑
23	ZSX10LB	.070 sq in	LD	28u	320mtΔ		100			C	575n	6.0	57		AC		PV11☑
24	NSL781	.014 sq in	LD	28uΔ	350mΔ		500		25m	E	850n	5.0	6C*	N	AD		PV110Ø
25	SX10LB	.070 sq in	LD	28u	500mtΔ		100			C	575n	6.0	57		AC		PV11☑
26	VSX10LB	.070 sq in	LD	28u	500mtΔ		100			C	560n§	6.0	57		AC		PV11☑
27#	B4%	543m§	LD	30u	100mŧ	3.0mŧ		150		C	565n		04		AC		PV51a☑
28	ST410-2	.030 sq in	LD	30uΔ	180mΔ				5.0m	C	850n		5A		AD		PV1ab☑
29	ST555-3	.100 cm sq	LD	30uŧΔ	180mΔ		10			C	555n		5A*		AD.09x.2Pkg		
30	VB100-1	.031 sq in	LD	30uΔ	180mΔ		10		1.0m		400n		5A*		AD		PV4u☑
31#	BPY48	103m	LD	30u	300m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94b☑
32#	SPD551	.007 sq in	LD	30uŧΔ	350mΔ		100			C	850n		16*	P	AD	B	PV77Ø
33	VTS6079	.080 sq in	LD	32uΔ	300mtΔ		10			C	750n			P	AD BES		PV28Ø
34#	BPY48P	.103 sq in	LD	35u	150m		9.2	100		C	850n	1.0	5A	P	AD	A	PV94b☑
35	VB100-18	.008 sq in	LD	35uΔ	180mΔ		10		1.0m		400n		5A*		AD	G	TO18
36	CLD42	.002 sq in	LD	35uΔ	300mΔ				5.0m	C	950n		5C	P	AD	B	PV143
37#	SC100	.070x.062 in	LD	35uΔ	400mΔ				10m	C		50	5A%		AD		PV116Ø
38	GB100-1	.031 sq in	LD	39uΔ	100mΔ		10		1.0m		555n		5A*		AD		PV4u☑
39	ZRX15LB	.110 sq in	LD	44u	320mtΔ		100			C	575n	6.0	57		AC		PV20bØ
40	RX15LB	.110 sq in	LD	44u	500mtΔ		100			C	575n	6.0	57		AC		PV20bØ
41	VRX15LB	.110 sq in	LD	44u	500mtΔ		100			C	560n§	6.0	57		AC		PV20bØ
42	GB100-8	.031 sq in	LD	46uΔ	100mΔ		10		1.0m		555n		5A*		AD	G	TO8
43#	SPD331	.014sq in	LD	48uΔ	350mΔ			1.0k		B	825n		17*				PV124☑
44#	A3%	1.181 dia §	LD	50u	100mŧ	5.0mŧ		150		C	565n		04		AC		PV5hØ
45#	BPY63P	.14 sq in	LD	50uŧΔ	280mΔ			1.0k		C	850n	1.0	5A%		AD	B	PV138☑
46	VTS2073	.130 sq in	LD	52uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1v☑
47	VTS3073	.130 sq in	LD	52uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1ad☑
48#	B2%	1.060§	LD	55u	150mŧ	8.0mŧ		150		C	565n		04		AC		PV51☑
49	VTS2072	.140 sq in	LD	55uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1w☑
50	VTS3072	.140 sq in	LD	55uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1ae☑
51	VTS2087	.013 sq in	LD	55uŧΔ	350mtΔ		100			C	900n		5C	P	AD		PV1r☑
52	VTS3087	.013 sq in	LD	55uŧΔ	350mtΔ		100			C	900n		5C	P	AD		PV1z☑
53	ST555-2	.200 cm sq	LD	60uŧΔ	180mΔ		10			C	555n		5A*		AD .2x.2Pkg		
54	VTS1086	.016 sq in	LD	65uŧΔ	325mtΔ		100			C	900n		5A	P	AD		PV21Ø
55	VTS5086	.016 sq in	LD	65uŧΔ	325mtΔ		100			C	900n		5A	P	AD		PV22Ø
56	VTS2086	.016 sq in	LD	65uŧΔ	350mtΔ		100			C	900n		5C	P	AD		PV1s☑
57	VTS3086	.016 sq in	LD	65uŧΔ	350mtΔ		100			C	900n		5C	P	AD		PV1aa☑
58#	MS59B	.003 sq in	LD	65uΔ	360mΔ		1.0k			C			58*		AD	B	PV37a☑
59#	MS59BE	.003 sq in	LD	65uΔ	360mΔ		1.0k			C			58*		AD		PV34a☑
60#	MS59PCD	.003 sq in	LD	65uΔ	360mΔ		1.0k			C			58*		AD	B	PV37a☑
61#	MS59PCDE	.003 sq in	LD	65uΔ	360mΔ		1.0k			C			58*		AD		PV34a☑
62#	SPD550	.016 sq in	LD	68uŧΔ	350mΔ		100			C	850n		28*	P	AD	B	PV76☑
63#	SBC541	.310 sq in	LD	70uΔ	180mΔ		10			C	560n		16*		AD	B	PV75☑
64#	B5%	1.662§	LD	70u	200mŧ	14mŧ		150		C	565n		04		AC		PV51b☑
65#	TP60	232m	LD	70u	300m		9.2	100	600u	C	850n	1.0	27*	P	AD	A	PV99Ø
66#	TP61	232m	LD	70u	300m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV98Ø
67	ZS1LB	.230 sq in	LD	88u	320mtΔ		100			C	575n	6.0	57		AC		PV11a☑
68#	SPD500	.021 sq in	LD	88uŧΔ	350mΔ		100			C	850n		28*	P	AD	B	PV72☑
69	S1LB	.230 sq in	LD	88u	500mtΔ		100			C	575n	6.0	57		AC		PV11a☑
70	VS1LB	.230 sq in	LD	88u	500mtΔ		100			C	560n§	6.0	57		AC		PV11a☑
71#	A1%	1.771 dia §	LD	90u	150mŧ	13mŧ		150		C	565n		04		AC		PV5gØ
72#	BPY47P	.279 sq in	LD	90u	150m		9.2	100		C	850n	1.0	5A	P	AD	A	PV94e☑
73#	BPY47	279m	LD	90u	300m		9.2	100	600u	C	850n	1.0	5A*	P	AD	A	PV94e☑
74	CLD56	.027 sq in	LD	100uΔ	300m				5.0m	C	950n		5C	P	AD	B	PV136Ø
75#	SBC111	.486 sq in	LD	110uΔ	180mΔ		10			C	560n		16*		AD	A	PV13aØ
76	VTS2071	.290 sq in	LD	115uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1x☑
77	VTS3071	.290 sq in	LD	115uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1af☑
78	B4Δ	.390 sq in	LD	120uŧ			100				600n		28		AC		PV1k☑
79	ST410-4	.139 sq in	LD	120uΔ	180mΔ				5.0m	C	850n		5A		AD		PV1bb☑
80	VB100-3	.140 sq in	LD	120uΔ	180mΔ		10		1.0m		400n		5A*		AD		PV4w☑
81	ZS2LB	.360 sq in	LD	120u	320mtΔ		100			C	575n	6.0	57		AC		PV11b☑
82	VTS5088	.028 sq in	LD	120uŧΔ	325mtΔ		100			C	900n		5A	P	AD		PV22Ø
83	S2LB	.360 sq in	LD	120u	500mtΔ		100			C	575n	6.0	57		AC		PV11b☑
84	VS2LB	.360 sq in	LD	120u	500mtΔ		100			C	560n§	6.0	57		AC		PV11b☑
85	NSL720	.0072 sq in	LD	125uΔ	350mΔ		500		25m	E	850n	5.0	6C*	N	AD		PV110Ø
86	NSL710	.005 sq in	LD	125uΔ	400mΔ		500		25m	E	850n	5.0	6C*	N	AD		PV102aØ
87#	SFH100	.032 sq in	LD	130u	150m		9.2	100		C	850n	1.0	47$	P	AD	B	PV145☑
88	NSL820	.0072 sq in	LD	130uΔ	275mΔ		500		25m	E	850n	10	6C*	N	AD		PV110Ø
89	ZS5LB	.350 sq in	LD	130u	320mtΔ		100			C	575n	6.0	57		AC		PV11e☑
90▼	58PBH	.077 sq cm	LD	130uΔ	350mΔ				10m	F	935n	20			AD PLANAR		PV148☑
91#	58P1	.012 Sq in*	LD	130uΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bq☑
92#	58P2	.012 Sq in*	LD	130uΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bq☑
93#	58PL1	.012 Sq in*	LD	130uΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bq☑
94#	58PL2	.012 Sq in*	LD	130uΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bq☑
95	S5LB	.350 sq in	LD	130u	500mtΔ		100			C	575n	6.0	57		AC		PV11e☑
96	VS5LB	.350 sq in	LD	130u	500mtΔ		100			C	560n§	6.0	57		AC		PV11e☑
97#	SPD511T	.031 sq in	LD	132uŧΔ	350mΔ		100			C	850n		16*	P	AD	B	PV74Ø
98	CLD31	.034 sq in	LD	140uΔ	300mΔ				5.0m	C	950n		5C	P	AD	B	PV141
99	VTS4085	.032 sq in	LD	140uŧΔ	325mtΔ		100			C	900n		5A	P	AD		PV21aØ
100#	SPD511K	.038sq in	LD	140uΔ	350mΔ			1.0k		B	825n		17*				PV125☑
101	VTS2085	.032 sq in	LD	140uŧΔ	350mtΔ		100			C	900n		5C	P	AD		PV1t☑
102	VTS3085	.032 sq in	LD	140uŧΔ	350mtΔ		100			C	900n		5C	P	AD		PV1ab☑
103	VTS7070A	.366 sq in	LD	145uΔ	300mtΔ		10			C	750n			P	AD BES		PV24Ø
104	NSL810	.005 sq in	LD	150uΔ	275mΔ		500		25m	E	850n	10	6C*	N	AD		PV102Ø
105#	2B	.790 Sq in*	LD	155uΔŧ	220mΔŧ				100u	F	900n	1.0	6C*	P	AD;BLUE		PV5eØ
106#	2BL	.790 Sq in*	LD	155uΔŧ	220mΔŧ				100u	F	900n	1.0	6C*	P	AD;BLUE		PV5fØ
107	GB100-3	.140 sq in	LD	160uΔ	100mΔ		10		1.0m		555n		5A*		AD		PV4w☑
108	ZRX80LB	.520 sq in	LD	170u	320mtΔ		100			C	575n	6.0	57		AC		PV20cØ
109	RX80LB	.520 sq in	LD	170u	500mtΔ		100			C	575n	6.0	57		AC		PV20cØ
110	VRX80LB	.520 sq in	LD	170u	500mtΔ		100			C	560n§	6.0	57		AC		PV20cØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	4 TYPE No	ACTIVE SURFACE	1 CELL USE	2 MIN. OUTPUT CURR-Io Δ-Isc (A)	3 MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SOURC	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	ZS3LB	.530 sq in	LD	180u	320mtΔ		100			C	575n	6.0	57		AC		PV11c☑
2	S3LB	.530 sq in	LD	180u	500mtΔ		100			C	575n	6.0	57		AC		PV11c☑
3	VS3LB	.530 sq in	LD	180u	500mtΔ		100			C	560n§	6.0	57		AC		PV11c☑
4#	SPD520	.055sq in	LD	199uΔ	350mΔ			1.0k		B	825n		17*				PV126☑
5#	EA7E5	.13x.05 in	LD	200u	200m		1.2k			F	850n		6F*		AD		PV55Ø
6	SS400-6	.130x.050 in	LD	200u	200m		1.2k			F			6H		AD	A	PV55Ø
7	SS400-7	.130x.050 in	LD	200u	200m		1.2k			F	800n		6H		AD	A	PV55Ø
8	ZS7LB	.640 sq in	LD	205u	320mtΔ		100			C	575n	6.0	57		AC		PV11f☑
9	S7LB	.640 sq in	LD	205u	500mtΔ		100			C	575n	6.0	57		AC		PV11f☑
10	VS7LB	.640 sq in	LD	205u	500mtΔ		100			C	560n§	6.0	57		AC		PV11f☑
11	ZS4LB	.660 sq in	LD	220u	320mtΔ		100			C	575n	6.0	57		AC		PV11d☑
12	ZS8LB	.670 sq in	LD	220u	320mtΔ		100			C	575n	6.0	57		AC		PV11g☑
13	S4LB	.660 sq in	LD	220u	500mtΔ		100			C	575n	6.0	57		AC		PV11d☑
14	S8LB	.670 sq in	LD	220u	500mtΔ		100			C	575n	6.0	57		AC		PV11g☑
15	VS4LB	.660 sq in	LD	220u	500mtΔ		100			C	560n§	6.0	57		AC		PV11d☑
16	VS8LB	.670 sq in	LD	220u	500mtΔ		100			C	560n§	6.0	57		AC		PV11g☑
17	ZS10LB	.700 sq in	LD	225u	320mtΔ		100			C	575n	6.0	57		AC		PV11h☑
18	S10LB	.700 sq in	LD	225u	500mtΔ		100			C	575n	6.0	57		AC		PV11h☑
19	VS10LB	.700 sq in	LD	225u	500mtΔ		100			C	560n§	6.0	57		AC		PV11h☑
20	ZR1LB	.610 sq in	LD	230u	320mtΔ		100			C	575n	6.0	57		AC		PV20d☑
21	R1LB	.610 sq in	LD	230u	500mtΔ		100			C	575n	6.0	57		AC		PV20d☑
22	VR1LB	.610 sq in	LD	230u	500mtΔ		100			C	560n§	6.0	57		AC		PV20d☑
23	ZS11LB	.740 sq in	LD	235u	320mtΔ		100			C	575n	6.0	57		AC		PV11j☑
24	S11LB	.740 sq in	LD	235u	500mtΔ		100			C	575n	6.0	57		AC		PV11j☑
25	VS11LB	.740 sq in	LD	235u	500mtΔ		100			C	560n§	6.0	57		AC		PV11j☑
26	ST410-5	.279 sq in	LD	240uΔ	180mΔ				5.0m	C	850n		5A		AD		PV1ba☑
27	VB100-4	.280 sq in	LD	240uΔ	180mΔ		10		1.0m		400n		5A*		AD		PV4x☑
28	VTS2070	.610 sq in	LD	240uΔ	300mtΔ		10			C	900n		5C	P	AD BES		PV1y☑
29	VTS3070	.610 sq in	LD	240uΔ	300mtΔ		10			C	900n		A	P	AD BES		PV1ag☑
30	A5	.780 sq in	LD	250ut			100				600n		28		AC		PV5b☑
31	B5Δ	.780 sq in	LD	250ut			100				600n		28		AC		PV1m☑
32	ST555-4	.900 cm sq	LD	250utΔ	180mΔ		10			C	555n		5A*		AD.39x.39Pg		
33#	EA7E3	.13x.05 in	LD	250u	250m		1.2k			F	850n		6F*		AD		PV55Ø
34	SS400-5	.130x.050 in	LD	250u	250m		1.2k			F			6H		AD	A	PV55Ø
35#	SPD570	.062 sq in	LD	260utΔ	350mΔ		100			C	850n		28*	P	AD	B	PV73c☑
36	VTS2084	.065 sq in	LD	270utΔ	350mtΔ		100			C	900n		5C	P	AD		PV1u☑
37	VTS3084	.065 sq in	LD	270utΔ	350mtΔ		100			C	900n		5C	P	AD		PV1ac☑
38	VTS6089	.080 sq in	LD	280utΔ	325mtΔ		100			C	900n		5A	P	AD		PV23Ø
39#	SPD102	.078 sq in	LD	280utΔ	350mΔ		100			C	850n		28*	P	AD	A	PV70Ø
40	NSL881	.014 sq in	LD	300uΔ	275mΔ		500		25m	E	850n	10	6C*	N	AD		PV110Ø
41#	EA7E1	.13x.05 in	LD	300u	300m		1.2k			F	850n		6F*		AD		PV55Ø
42#	EA7E2	.13x.05 in	LD	300u	300m		1.2k			F	850n		6F*		AD		PV55Ø
43	SS400-1	.130x.050 in	LD	300u	300m		1.2k			F			6H		AD	A	PV55Ø
44	SS400-2	.130x.050 in	LD	300u	300m		1.2k			F			6H		AD	A	PV55Ø
45	NSL701	.014 sq in	LD	300uΔ	350mΔ		500		25m	E	950n	5.0	6C*	N	AD		PV105☑
46	NSL701-1	.005 sq in	LD	300utΔ	350mΔ		500		25m	E	850n	5.0		N	AD	♦	PV105☑
47▼	55PBH	.18 sq cm	LD	310uΔ	350mΔ				10m	F	935n	12			AD PLANAR		PV148a☑
48#	55P1	.028 Sq in*	LD	310uΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bp☑
49#	55P2	.028 Sq in*	LD	310uΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bp☑
50#	55PL1	.028 Sq in*	LD	310uΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bp☑
51#	55PL2	.028 Sq in*	LD	310uΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bp☑
52	GB100-4	.280 sq in	LD	320uΔ	100mΔ		10		1.0m		555n		5A*		AD		PV4x☑
53	NSL801	.0147 sq in	LD	325uΔ	275mΔ		500		25m	E	950n	10	6C*	N	AD		PV105☑
54	B10	1.26 sq in	LD	380ut			100				600n		28		AC		PV1n☑
55	ZR5LB	1.100 sq in	LD	390u	320mtΔ		100			C	575n	6.0	57		AC		PV20eØ
56	R5LB	1.100 sq in	LD	390u	500mtΔ		100			C	575n	6.0	57		AC		PV20eØ
57	VR5LB	1.100 sq in	LD	390u	500mtΔ		100			C	560n§	6.0	57		AC		PV20eØ
58	SS500	.215 in§	LD	400u	350m		1.0k			F	800n		6H		AD NorP		PV62Ø
59	NSL782	.023 sq in	LD	420uΔ	350mΔ		500		25m	E	850n	5.0	6C*	N	AD		PV111Ø
60	ZR10LB	1.350 sq in	LD	430u	320mtΔ		100			C	575n	6.0	57		AC		PV20fØ
61	R10LB	1.350 sq in	LD	430u	500mtΔ		100			C	575n	6.0	57		AC		PV20fØ
62	VR10LB	1.350 sq in	LD	430u	500mtΔ		100			C	560n§	6.0	57		AC		PV20fØ
63	NSL882	.023 sq in	LD	440uΔ	275mΔ		500		25m	E	850n	10	6C*	N	AD		PV111Ø
64	ST555-5	1.80 cm sq	LD	500utΔ	180mΔ		10			C	555n		5A*		AD.39x.785		
65	ZR75LB	1.750 sq in	LD	500u	320mtΔ		100			C	575n	6.0	57		AC		PV20gØ
66	ZS13LB	1.820 sq in	LD	500u	320mtΔ		100			C	575n	6.0	57		AC		PV11k☑
67	R75LB	1.750 sq in	LD	500u	500mtΔ		100			C	575n	6.0	57		AC		PV20gØ
68	S13LB	1.820 sq in	LD	500u	500mtΔ		100			C	575n	6.0	57		AC		PV11k☑
69	VR75LB	1.750 sq in	LD	500u	500mtΔ		100			C	560n§	6.0	57		AC		PV20gØ
70	VS13LB	1.820 sq in	LD	500u	500mtΔ		100			C	560n§	6.0	57		AC		PV11k☑
71	VTS2083	.130 sq in	LD	550utΔ	350mtΔ		100			C	900n		5C	P	AD		PV1v☑
72	VTS3083	.130 sq in	LD	550utΔ	350mtΔ		100			C	900n		5C	P	AD		PV1ad☑
73	NSL702	.028 sq in	LD	600uΔ	350mΔ		500		25m	E	950n	5.0	6C*	N	AD		PV106☑
74	NSL791	.029 sq in	LD	600uΔ	350mΔ		500		25m	E	850n	5.0	6C*	N	AD		PV111aØ
75	VTS2082	.140 sq in	LD	600utΔ	350mtΔ		100			C	900n		5C	P	AD		PV1w☑
76	VTS3082	.140 sq in	LD	600utΔ	350mtΔ		100			C	900n		5C	P	AD		PV1ae☑
77	NSL802	.028 sq in	LD	650uΔ	275mΔ		500		25m	E	950n	10	6C*	N	AD		PV106☑
78	NSL891	.029 sq in	LD	650uΔ	275mΔ		500		25m	E	850n	10	6C*	N	AD		PV111aØ
79▼	51PBH	.38 sq cm	LD	650uΔ	350mΔ				10m	F	935n	8.0			AD PLANAR		PV148b☑
80#	SPD530	.155 sq in	LD	650utΔ	350mΔ		100			C	850n		28*	P	AD	B	PV73a☑
81#	51P1	.059 Sq in*	LD	650uΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bn☑
82#	51P2	.059 Sq in*	LD	650uΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bn☑
83#	51PL1	.059 Sq in*	LD	650uΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bn☑
84#	51PL2	.059 Sq in*	LD	650uΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bn☑
85	B17	2.60 sq in	LD	710ut			100				600n		28		AC		PV1p☑
86	ZR100LB	2.400 sq in	LD	850u	320mtΔ		100			C	575n	6.0	57		AC		PV20hØ
87	R100LB	2.40 sq in	LD	850u	500mtΔ		100			C	575n	6.0	57		AC		PV20hØ
88	VR100LB	2.400 sq in	LD	850u	500mtΔ		100			C	560n§	6.0	57		AC		PV20hØ
89	B20	3.30 sq in	LD	900ut			100				600n		28		AC		PV1q☑
90	NSL792	.054 sq in	LD	1.1mΔ	350mΔ		500		25m	E	850n	5.0	6C*	N	AD		PV111bØ
91	NSL892	.054 sq in	LD	1.2mΔ	275mΔ		500		25m	E	850n	10	6C*	N	AD		PV111bØ
92▼	52PBH	.77 sq cm	LD	1.2mΔ	350mΔ				10m	F	935n	5.0			AD PLANAR		PV148c☑
93	VTS2081	.290 sq in	LD	1.2mtΔ	350mtΔ		100			C	900n		5C	P	AD		PV1x☑
94	VTS2081N	.290 sq in	LD	1.2mtΔ	350mtΔ		100			C	900n		5C	N	AD		PV1x☑
95	VTS3081	.290 sq in	LD	1.2mtΔ	350mtΔ		100			C	900n		5C	P	AD		PV1af☑
96#	52P1	.119 Sq in*	LD	1.2mΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bm☑
97#	52P2	.119 Sq in*	LD	1.2mΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bm☑
98#	52PL1	.119 Sq in*	LD	1.2mΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bm☑
99#	52PL2	.119 Sq in*	LD	1.2mΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bm☑
100	NSL708	.062 sq in	LD	1.3mΔ	350mΔ		500		25m	E	950n	5.0	6C*	N	AD		PV105b☑
101#	OSD1-5PV	.0015 Sq In	LD	1.4m					1.0		800n	10u			AD		PD27h☑
102	NSL808	.062 sq in	LD	1.4mΔ	275mΔ		500		25m	E	950n	10	6C*	N	AD		PV105b☑
103▼	110PBH	.86 sq cm	LD	1.4mΔ	350mΔ				10m	F	935n	5.0			AD PLANAR		PV148d☑
104	NSL703	.068 sq in	LD	1.4mΔ	350mΔ		500		25m	E	950n	5.0	6C*	N	AD		PV106a☑
105	NSL751	.068 sq in	LD	1.4mΔ	350mΔ		500		25m	E	850n	5.0	6C*	N	AD		PV109Ø
106#	110P1	.133 Sq in*	LD	1.4mΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bk☑
107#	110P2	.133 Sq in*	LD	1.4mΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bk☑
108#	110PL1	.133 Sq in*	LD	1.4mΔ	400m				20m	F	900n	1.0	6C*	P	AD;PLANAR		PV1bk☑
109#	110PL2	.133 Sq in*	LD	1.4mΔ	400m				20m	F	900n	6.0	6C*	P	AD;PLANAR		PV1bk☑
110	NSL803	.068 sq in	LD	1.5mΔ	275mΔ		500		25m	E	950n	10	6C*	N	AD		PV106a☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	4 TYPE No	ACTIVE SURFACE	1 CELL USE	2 MIN. OUTPUT CURR-Io Δ-Isc (A)	3 MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SOURCE	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	NSL851	.068 sq in	LD	1.5mΔ	275mΔ		500		25m	E	850n	10	6C*	N	AD		PV109Ø
2	VTS7080A	.370 sq in	LD	1.5mτΔ	325mτΔ		100			C	900n		5A	P	AD		PV24Ø
3#	MSR1	.180x.080 in	LD	1.6mΔτ	400mΔτ		3.0k			C					AD		PV47☑
4#	MSR1E	.180x.080 in	LD	1.6mΔτ	400mΔτ		3.0k			C					AD		PV46☑
5#	SC1	.150x.08 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114*
6#	SC4	.393x.354 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114a*
7#	SC5	.834x.120 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114b*
8#	SC7	.150x.027 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114d*
9#	SC11	.150x.042 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114e*
10#	SC13	.257x.217 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114h*
11#	SC17	.085x.048 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114f*
12#	SC18	.157x.087 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114g*
13#	SC30	.120x.107 in	LD	1.6mΔ	450mΔ	400u			100m		900n		5A*		AD		PV114c*
14#	58C	.014 sq in	LD	1.8m	510mΔ	720u	3.0k		200m	F	900n		6C*	P	AD		PV1bq☑
15#	58CL	.014 Sq in*	LD	1.8m	510mΔ	720u	3.0k		200m	F	900n		6C*	P	AD		PV1bq☑
16#	MS10A	.196x.181 in	LD	2.2mΔτ	500mΔτ		3.0k			C	850n		5C*		AD		
17	VTS2080	.610 sq in	LD	2.5mτΔ	350mτΔ		100			C	900n		5C	P	AD		PV1y☑
18	VTS3080	.610 sq in	LD	2.5mτΔ	350mτΔ		100			C	900n		5C	P	AD		PV1ag☑
19#	MS3A	.064x.403 in	LD	2.6mΔτ	500mΔτ		3.0k			C	850n		5C*		AD	A	PV37☑
20#	MS3B	.064x.403 in	LD	2.6mΔτ	500mΔτ		3.0k			C	850n		5C*		AD	A	PV37☑
21	NSL706	.138 sq in	LD	2.9mΔ	350mΔ		500		25m	E	950n	5.0	6C*	N	AD		PV107☑
22	NSL806	.138 sq in	LD	3.0mΔ	275mΔ		500		25m	E	950n	10	6C*	N	AD		PV107☑
23	NSL707	.161 sq in	LD	3.3mΔ	350mΔ		500		25m	E	950n	5.0	6C*	N	AD		PV105a☑
24	NSL807	.161 sq in	LD	3.5mΔ	275mΔ		500		25m	E	950n	10	6C*	N	AD		PV105a☑
25#	55C	.030 sq in	LD	3.8m	530mΔ	1.5m	3.0k		200m	F	900n		6C*	P	AD		PV1bp☑
26#	55CL	.03 Sq in*	LD	3.8m	530mΔ	1.5m	3.0k		200m	F	900n		6C*	P	AD		PV1bp☑
27	NSL705	.246 sq in	LD	4.5mΔ	350mΔ		500		25m	E	950n	5.0	6C*	N	AD		PV108☑
28	NSL805	.246 sq in	LD	4.7mΔ	275mΔ		500		25m	E	950n	10	6C*	N	AD		PV108☑
29#	MS4A	.207x.242 in	LD	5.0mΔτ	500mΔτ		3.0k			C	850n		5C*	NonP	AD	A	PV38☑
30#	MS4B	.207x.242 in	LD	5.0mΔτ	500mΔτ		3.0k			C	850n		5C*	NonP	AD	A	PV38☑
31#	OSD5-5PV	.0077 Sq In	LD	7.0m					1.0		800n	10u			AD		PD109cØ
32#	51C	.060 sq in	LD	7.8m	550mΔ	3.1m	3.0k		200m	F	900n		6C*	P	AD		PV1bn☑
33#	51CL	.06 Sq in*	LD	7.8m	550mΔ	3.1m	3.0k		200m	F	900n		6C*	P	AD		PV1bn☑
34#	MS5A	.207x.492 in	LD	10mΔτ	500mΔτ		3.0k			C	850n		5C*	NonP	AD	A	PV38a☑
35#	MS5B	.207x.492 in	LD	10mΔτ	500mΔτ		3.0k			C	850n		5C*	NonP	AD	A	PV38a☑
36#	MS6A	.75x.205 in	LD	15mΔτ	500mΔτ		3.0k			C	850n		5C*		AD	B	PV33a☑
37#	MS6B	.75x.205 in	LD	15mΔτ	500mΔτ		3.0k			C	850n		5C*		AD	B	PV33a☑
38#	52C	.120 sq in	LD	16m	550mΔ	6.4m	3.0k		200m	F	900n		6C*	P	AD		PV1bm☑
39#	52CL	.12 Sq in*	LD	16m	550mΔ	6.4m	3.0k		200m	F	900n		6C*	P	AD		PV1bk☑
40#	110C	.140 sq in	LD	17.8m	550mΔ	7.1m	3.0k		200m	F	900n		6C*	P	AD		PV1bk☑
41#	110CL	.14 Sq in*	LD	17.8m	550mΔ	7.1m	3.0k		200m	F	900n		6C*	P	AD		PV1bk☑
42#	MS7A	1x.205 in	LD	20mΔτ	500mΔτ		3.0k			C	850n		5C*		AD	B	PV33b☑
43#	MS7B	1x.205 in	LD	20mΔτ	500mΔτ		3.0k			C	850n		5C*		AD	B	PV33b☑
44	S0505A6	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4☑
45	S0505A6PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4j☑
46	S0505A7	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4☑
47	S0505A7PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4j☑
48	S0505A8	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4☑
49	S0505A8PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4j☑
50	S0505A9	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4☑
51	S0505A9PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4j☑
52	S0505A10	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4☑
53	S0505A10PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4j☑
54	S0505A11	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4☑
55	S0505A11PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4j☑
56	S0505A12	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4☑
57	S0505A12PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4j☑
58	S0505E6	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4☑
59	S0505E6PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4j☑
60	S0505E7	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4☑
61	S0505E7PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4j☑
62	S0505E8	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4☑
63	S0505E8PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4j☑
64	S0505E9	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4☑
65	S0505E9PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4j☑
66	S0505E10	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4☑
67	S0505E10PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4j☑
68	S0505E11	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4☑
69	S0505E11PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4j☑
70	S0505E12	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4☑
71	S0505E12PL	.200x.200 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4j☑
72	S0510A6	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4a☑
73	S0510A6PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4k☑
74	S0510A7	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4a☑
75	S0510A7PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4k☑
76	S0510A8	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4a☑
77	S0510A8PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4k☑
78	S0510A9	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4a☑
79	S0510A9PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4k☑
80	S0510A10	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4a☑
81	S0510A10PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4k☑
82	S0510A11	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4a☑
83	S0510A11PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4k☑
84	S0510A12	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4a☑
85	S0510A12PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4k☑
86	S0510E6	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4a☑
87	S0510E6PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4k☑
88	S0510E7	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4a☑
89	S0510E7PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4k☑
90	S0510E8	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4a☑
91	S0510E8PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4k☑
92	S0510E9	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4a☑
93	S0510E9PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4k☑
94	S0510E10	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4a☑
95	S0510E10PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4k☑
96	S0510E11	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4a☑
97	S0510E11PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4k☑
98	S0510E12	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4a☑
99	S0510E12PL	.200x.400 in§	LD	25mτΔ	560mτΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4k☑
100	S0520A6	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4b☑
101	S0520A6PL	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4m☑
102	S0520A7	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4b☑
103	S0520A7PL	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4m☑
104	S0520A8	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4b☑
105	S0520A8PL	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4m☑
106	S0520A9	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4b☑
107	S0520A9PL	.200x.800in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4m☑
108	S0520A10	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4b☑
109	S0520A10PL	.200x.800in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4m☑
110	S0520A11	.200x.800 in§	LD	25mτΔ	560mτΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4b☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	[4] TYPE No	ACTIVE SURFACE	[1] CELL USE	[2] MIN. OUTPUT CURR-Io Δ-Isc (A)	[3] MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SOURC	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	S0520A11PL	.200x.800in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4m☑
2	S0520A12	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4b☑
3	S0520A12PL	.200x.800in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4m☑
4	S0520E6	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4b☑
5	S0520E6PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4m☑
6	S0520E7	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4b☑
7	S0520E7PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4m☑
8	S0520E8	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4b☑
9	S0520E8PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4m☑
10	S0520E9	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4b☑
11	S0520E9PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4m☑
12	S0520E10	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4b☑
13	S0520E10PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4m☑
14	S0520E11	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4b☑
15	S0520E11PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4m☑
16	S0520E12	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4b☑
17	S0520E12PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4m☑
18	S0520GA6	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4b☑
19	S0520GA6PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4m☑
20	S0520GA7	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4b☑
21	S0520GA7PL	.200x.800in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4m☑
22	S0520GA8	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4b☑
23	S0520GA8PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4m☑
24	S0520GA9	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4b☑
25	S0520GA9PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4m☑
26	S0520GA10	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4b☑
27	S0520GA10PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4m☑
28	S0520GA11	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4b☑
29	S0520GA11PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4m☑
30	S0520GA12	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4b☑
31	S0520GA12PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4m☑
32	S0520GE6	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4b☑
33	S0520GE6PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4m☑
34	S0520GE7	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4b☑
35	S0520GE7PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4m☑
36	S0520GE8	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4b☑
37	S0520GE8PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4m☑
38	S0520GE9	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4b☑
39	S0520GE9PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4m☑
40	S0520GE10	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4b☑
41	S0520GE10PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4m☑
42	S0520GE11	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4b☑
43	S0520GE11PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4m☑
44	S0520GE12	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4b☑
45	S0520GE12PL	.200x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4m☑
46	S1005A6	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4c☑
47	S1005A6PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4n☑
48	S1005A7	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4c☑
49	S1005A7PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4n☑
50	S1005A8	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4c☑
51	S1005A8PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4n☑
52	S1005A9	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4c☑
53	S1005A9PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4n☑
54	S1005A10	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4c☑
55	S1005A10PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4n☑
56	S1005A11	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4c☑
57	S1005A11PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4n☑
58	S1005A12	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4c☑
59	S1005A12PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4n☑
60	S1005E6	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4c☑
61	S1005E6PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4n☑
62	S1005E7	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4c☑
63	S1005E7PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4n☑
64	S1005E8	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4c☑
65	S1005E8PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4n☑
66	S1005E9	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4c☑
67	S1005E9PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4n☑
68	S1005E10	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4c☑
69	S1005E10PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4n☑
70	S1005E11	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4c☑
71	S1005E11PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4n☑
72	S1005E12	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4c☑
73	S1005E12PL	.400x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4n☑
74	S1010A6	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4d☑
75	S1010A6PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4p☑
76	S1010A7	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4d☑
77	S1010A7PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4p☑
78	S1010A8	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4d☑
79	S1010A8PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4p☑
80	S1010A9	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4d☑
81	S1010A9PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4p☑
82	S1010A10	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4d☑
83	S1010A10PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4p☑
84	S1010A11	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4d☑
85	S1010A11PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4p☑
86	S1010A12	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4d☑
87	S1010A12PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4p☑
88	S1010E6	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4d☑
89	S1010E6PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4p☑
90	S1010E7	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4d☑
91	S1010E7PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4p☑
92	S1010E8	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4d☑
93	S1010E8PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4p☑
94	S1010E9	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4d☑
95	S1010E9PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4p☑
96	S1010E10	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4d☑
97	S1010E10PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4p☑
98	S1010E11	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4d☑
99	S1010E11PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4p☑
100	S1010E12	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4d☑
101	S1010E12PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4p☑
102	S1010GA6	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4d☑
103	S1010GA6PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4p☑
104	S1010GA7	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4d☑
105	S1010GA7PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4p☑
106	S1010GA8	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4d☑
107	S1010GA8PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4p☑
108	S1010GA9	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4d☑
109	S1010GA9PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4p☑
110	S1010GA10	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4d☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	[4] TYPE No	ACTIVE SURFACE	[1] CELL USE	[2] MIN. OUTPUT CURR-Io Δ-Isc (A)	[3] MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SOURC	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	S1010GA10PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4p☑
2	S1010GA11	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4d☑
3	S1010GA11PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4p☑
4	S1010GA12	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4d☑
5	S1010GA12PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4p☑
6	S1010GE6	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4d☑
7	S1010GE6PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4p☑
8	S1010GE7	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4d☑
9	S1010GE7PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4p☑
10	S1010GE8	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4d☑
11	S1010GE8PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4p☑
12	S1010GE9	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4d☑
13	S1010GE9PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4p☑
14	S1010GE10	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4d☑
15	S1010GE10PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4p☑
16	S1010GE11	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4d☑
17	S1010GE11PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4p☑
18	S1010GE12	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4d☑
19	S1010GE12PL	.400x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4p☑
20	S1020A6	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4e☑
21	S1020A6PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4q☑
22	S1020A7	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4e☑
23	S1020A7PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4q☑
24	S1020A8	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4e☑
25	S1020A8PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4q☑
26	S1020A9	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4e☑
27	S1020A9PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4q☑
28	S1020A10	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4e☑
29	S1020A10PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4q☑
30	S1020A11	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4e☑
31	S1020A11PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4q☑
32	S1020A12	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4e☑
33	S1020A12PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4q☑
34	S1020E6	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4e☑
35	S1020E6PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4q☑
36	S1020E7	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4e☑
37	S1020E7PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4q☑
38	S1020E8	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4e☑
39	S1020E8PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4q☑
40	S1020E9	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4e☑
41	S1020E9PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4q☑
42	S1020E10	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4e☑
43	S1020E10PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4q☑
44	S1020E11	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4e☑
45	S1020E11PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4q☑
46	S1020E12	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4e☑
47	S1020E12PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4q☑
48	S1020GA6	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4e☑
49	S1020GA6PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4q☑
50	S1020GA7	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4e☑
51	S1020GA7PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4q☑
52	S1020GA8	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4e☑
53	S1020GA8PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4q☑
54	S1020GA9	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4e☑
55	S1020GA9PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4q☑
56	S1020GA10	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4e☑
57	S1020GA10PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4q☑
58	S1020GA11	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4e☑
59	S1020GA11PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4q☑
60	S1020GA12	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4e☑
61	S1020GA12PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4q☑
62	S1020GE6	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4e☑
63	S1020GE6PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4q☑
64	S1020GE7	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4e☑
65	S1020GE7PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4q☑
66	S1020GE8	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4e☑
67	S1020GE8PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4q☑
68	S1020GE9	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4e☑
69	S1020GE9PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4q☑
70	S1020GE10	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4e☑
71	S1020GE10PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4q☑
72	S1020GE11	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4e☑
73	S1020GE11PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4q☑
74	S1020GE12	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4e☑
75	S1020GE12PL	.400x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4q☑
76	S2005A6	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4f☑
77	S2005A6PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4r☑
78	S2005A7	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4f☑
79	S2005A7PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4r☑
80	S2005A8	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4f☑
81	S2005A8PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4r☑
82	S2005A9	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4f☑
83	S2005A9PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4r☑
84	S2005A10	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4f☑
85	S2005A10PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4r☑
86	S2005A11	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4f☑
87	S2005A11PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4r☑
88	S2005A12	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4f☑
89	S2005A12PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4r☑
90	S2005E6	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4f☑
91	S2005E6PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4r☑
92	S2005E7	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4f☑
93	S2005E7PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4r☑
94	S2005E8	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4f☑
95	S2005E8PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4r☑
96	S2005E9	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4f☑
97	S2005E9PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4r☑
98	S2005E10	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4f☑
99	S2005E10PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4r☑
100	S2005E11	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4f☑
101	S2005E11PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4r☑
102	S2005E12	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4f☑
103	S2005E12PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4r☑
104	S2005GA6	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;EFF 6%Ø		PV4f☑
105	S2005GA6PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4r☑
106	S2005GA7	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4f☑
107	S2005GA7PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4r☑
108	S2005GA8	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4f☑
109	S2005GA8PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4r☑
110	S2005GA9	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4f☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	[4] TYPE No	ACTIVE SURFACE	[1] CELL USE	[2] MIN. OUTPUT CURR-Io Δ-Isc (A)	[3] MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SOURC	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	S2005GA9PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4r☑
2	S2005GA10	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4f☑
3	S2005GA10PL	.800x.200in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4r☑
4	S2005GA11	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4f☑
5	S2005GA11PL	.800x.200in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4r☑
6	S2005GA12	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4f☑
7	S2005GA12PL	.800x.200in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4r☑
8	S2005GE6	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4f☑
9	S2005GE6PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4r☑
10	S2005GE7	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4f☑
11	S2005GE7PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4r☑
12	S2005GE8	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4f☑
13	S2005GE8PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4r☑
14	S2005GE9	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4f☑
15	S2005GE9PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4r☑
16	S2005GE10	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4f☑
17	S2005GE10PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4r☑
18	S2005GE11	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4f☑
19	S2005GE11PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4r☑
20	S2005GE12	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4f☑
21	S2005GE12PL	.800x.200 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4r☑
22	S2010A6	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4g☑
23	S2010A6PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4s☑
24	S2010A7	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4g☑
25	S2010A7PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4s☑
26	S2010A8	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4g☑
27	S2010A8PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4s☑
28	S2010A9	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4g☑
29	S2010A9PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4s☑
30	S2010A10	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4g☑
31	S2010A10PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4s☑
32	S2010A11	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4g☑
33	S2010A11PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4s☑
34	S2010A12	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4g☑
35	S2010A12PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4s☑
36	S2010E6	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4g☑
37	S2010E6PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4s☑
38	S2010E7	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4g☑
39	S2010E7PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4s☑
40	S2010E8	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4g☑
41	S2010E8PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4s☑
42	S2010E9	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4g☑
43	S2010E9PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4s☑
44	S2010E10	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4g☑
45	S2010E10PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4s☑
46	S2010E11	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4g☑
47	S2010E11PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4s☑
48	S2010E12	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4g☑
49	S2010E12PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4s☑
50	S2010GA6	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28		AD;Eff 6%Ø		PV4g☑
51	S2010GA6PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4s☑
52	S2010GA7	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28		AD;Eff 7%Ø		PV4g☑
53	S2010GA7PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4s☑
54	S2010GA8	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28		AD;Eff 8%Ø		PV4g☑
55	S2010GA8PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4s☑
56	S2010GA9	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28		AD;Eff 9%Ø		PV4g☑
57	S2010GA9PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4s☑
58	S2010GA10	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28		AD;Eff 10%Ø		PV4g☑
59	S2010GA10PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4s☑
60	S2010GA11	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28		AD;Eff 11%Ø		PV4g☑
61	S2010GA11PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4s☑
62	S2010GA12	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28		AD;Eff 12%Ø		PV4g☑
63	S2010GA12PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4s☑
64	S2010GE6	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4g☑
65	S2010GE6PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4s☑
66	S2010GE7	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4g☑
67	S2010GE7PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4s☑
68	S2010GE8	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4g☑
69	S2010GE8PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4s☑
70	S2010GE9	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4g☑
71	S2010GE9PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4s☑
72	S2010GE10	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4g☑
73	S2010GE10PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4s☑
74	S2010GE11	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4g☑
75	S2010GE11PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4s☑
76	S2010GE12	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4g☑
77	S2010GE12PL	.800x.400 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4s☑
78	S2020A6	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4h☑
79	S2020A6PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4t☑
80	S2020A7	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4h☑
81	S2020A7PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4t☑
82	S2020A8	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4h☑
83	S2020A8PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4t☑
84	S2020A9	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4h☑
85	S2020A9PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 9%Ø		PV4t☑
86	S2020A10	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4h☑
87	S2020A10PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 10%Ø		PV4t☑
88	S2020A11	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4h☑
89	S2020A11PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 11%Ø		PV4t☑
90	S2020A12	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4h☑
91	S2020A12PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 12%Ø		PV4t☑
92	S2020E6	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4h☑
93	S2020E6PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 6%Ø		PV4t☑
94	S2020E7	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4h☑
95	S2020E7PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 7%Ø		PV4t☑
96	S2020E8	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4h☑
97	S2020E8PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 8%Ø		PV4t☑
98	S2020E9	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4h☑
99	S2020E9PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 9%Ø		PV4t☑
100	S2020E10	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4h☑
101	S2020E10PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 10%Ø		PV4t☑
102	S2020E11	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4h☑
103	S2020E11PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 11%Ø		PV4t☑
104	S2020E12	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4h☑
105	S2020E12PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	P	AD;Eff 12%Ø		PV4t☑
106	S2020GA6	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4h☑
107	S2020GA6PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 6%Ø		PV4t☑
108	S2020GA7	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4h☑
109	S2020GA7PL	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 7%Ø		PV4t☑
110	S2020GA8	.800x.800 in§	LD	25mtΔ	560mtΔ				100m		800n		28	N	AD;Eff 8%Ø		PV4h☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	[4] TYPE No	ACTIVE SURFACE	[1] CELL USE	[2] MIN. OUTPUT CURR-Io Δ-Isc (A)	[3] MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SOURCE	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	S2020GA8PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 8%Ø		PV4t☑
2	S2020GA9	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 9%Ø		PV4h☑
3	S2020GA9PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 9%Ø		PV4t☑
4	S2020GA10	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 10%Ø		PV4h☑
5	S2020GA10PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 10%Ø		PV4t☑
6	S2020GA11	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 11%Ø		PV4h☑
7	S2020GA11PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 11%Ø		PV4t☑
8	S2020GA12	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 12%Ø		PV4h☑
9	S2020GA12PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	N	AD;Eff 12%Ø		PV4t☑
10	S2020GE6	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 6%Ø		PV4h☑
11	S2020GE6PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 6%Ø		PV4t☑
12	S2020GE7	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 7%Ø		PV4h☑
13	S2020GE7PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 7%Ø		PV4t☑
14	S2020GE8	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 8%Ø		PV4h☑
15	S2020GE8PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 8%Ø		PV4t☑
16	S2020GE9	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 9%Ø		PV4h☑
17	S2020GE9PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 9%Ø		PV4t☑
18	S2020GE10	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 10%Ø		PV4h☑
19	S2020GE10PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 10%Ø		PV4t☑
20	S2020GE11	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 11%Ø		PV4h☑
21	S2020GE11PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 11%Ø		PV4t☑
22	S2020GE12	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 12%Ø		PV4h☑
23	S2020GE12PL	.800x.800 in§	LD	25mt△	560mt△				100m		800n		28	P	AD;Eff 12%Ø		PV4t☑
24#	MS2A	.75x.455 in	LD	27mA†	500mA†		3.0k			C	850n		5C*		AD	B	PV35☑
25#	MS2AE	.75x.455 in	LD	31mA†	500mA†		3.0k			C	850n		58*		AD		PV36☑
26#	MS2B	.75x.455 in	LD	31mA†	550mA†		3.0k			C	850n		5C*		AD	B	PV35☑
27#	MS2BE	.75x.455 in	LD	34mA†	550mA†		3.0k			C	850n		58*		AD		PV36☑
28#	OSD50-5PV	.077 Sq In	LD	70m					1.0		800n	10u			AD		PD199aØ
29#	2A	.790 Sq in*	LD	95m	550mA	38m	3.0k		200m	F	900n		6C*	P	AD		PV5eØ
30#	2AL	.790 Sq in*	LD	95m	550mA	38m	3.0k		200m	F	900n		6C*	P	AD		PV5fØ
31#	OSD100-5PV	.155 Sq In	LD	140m					1.0		800n	10u			AD		PD201aØ
32#	BPY11P/V	.011 sq in	LD	5.69 △	180mA			100		C	850n	1.0	5A*		AD	B	PV137☑
33	DP2	.088 sq in	LD	24 †	220mt		100				600n		28		AC		PV8☑
34	DP3	.210 sq in	LD	66 †	260mt		100				600n		28		AC		PV7☑
35	A5M	1.10 in Dia	LD	220 †	300mt		100				600n		28		AC		PV3aØ
36	B10M	1.60x.700 in	LD	320 †	300mt		100				600n		28		AC		PV2aØ
37	A10M	1.70 in Dia	LD	550 †	300mt		100				600n		28		AC		PV3bØ
38	A15M	1.90 in Dia	LD	700 †	310mt		100				600n		28		AC		PV6Ø
39	A15	2.58 sq in	LD	770 †			100				600n		28		AC		PV5dØ
40	S5001	.710 sq in	PC	100m	400m	40m	11k								AD		
41	S5000	3.12 sq in	PC	400m	400m	160m	11k										
42	S7600	3.0in DIA	PC	1.2	450m	500m	11k										
43#	BPW35	.145 in sq	SC	300nA	380m						800n				120°	A	PV50☑
44	B4☑	.543 sq in§	SC	30u			10				565n				AC		PV51a☑
45	A3☑	1.09 in dia§	SC	50u			10				565n				AC		PV5hØ
46	B2☑	1.06 sq in§	SC	55u			10				565n				AC		PV51☑
47	A1	2.46 in dia§	SC	90u			10				565n				AC		PV5gØ
48	B5☑	1.66 sq in§	SC	90u			10				565n				AC		PV51b☑
49	SS300-1	.240 in dia	SC	1.1mA	400mA		1.0k			H	800n		6H		AD	A	PV57Ø
50	SS300-2	.240 in dia	SC	1.1mA	400mA		1.0k			H	800n		6H		AD	E	PV58Ø
51	SS300-3	.240 in dia	SC	1.1mA	400mA		1.0k			H	800n		6H		AD	E	PV57Ø
52	SS300-4	.240 in dia	SC	1.1mA	400mA		1.0k			H	800n		6H		AD	E	PV58Ø
53	SS23	.0155 sq in	SC	1.5m	400m	600u			100m	F	800n		6H	P	AD		PV1bg☑
54	VTS2011	.013 sq in	SC	1.7m	400mt	680u			100m	C			5C	P	AD		PV1r☑
55	VTS3011	.013 sq in	SC	1.7m	400mt	680u			100m	C			5C	P	AD		PV1z☑
56	ST203	.015 sq in	SC	1.8mt	400mt	7.2mt				F			6H	P	AD		☑
57	VTS2012	.016 sq in	SC	2.0m	400mt	800u			100m	C			5C	P	AD		PV1s☑
58	VTS3012	.016 sq in	SC	2.0m	400mt	800u			100m	C			5C	P	AD		PV1aa☑
59#	BPY70	.557 in sq	SC	2.6mA	400m					C	850n	1.0	2A*	N	AD 120°	A	PV31☑
60	SS22	.031 sq in	SC	3.0m	400m	1.2m			100m	F	800n		6H	P	AD		PV1bf☑
61	ST202	.031 sq in	SC	3.8mt	400mt	1.5mt				F			6H	P	AD		☑
62	VTS2013	.032 sq in	SC	4.2m	400mt	1.6m			100m	C			5C	P	AD		PV1t☑
63	VTS3013	.032 sq in	SC	4.2m	400mt	1.6m			100m	C			5C	P	AD		PV1ab☑
64	SS21	.062 sq in	SC	6.0m	400m	2.4m			100m	F	800n		6H	P	AD		PV1be☑
65	SS12	.069 sq in	SC	7.0m	400m	2.8m			100m	F	800n		6H	P	AD		PV1bc☑
66	ST102	.069 sq in	SC	7.5mt	400mt	3.0mt				F			6H	P	AD		☑
67	ST201	.062 sq in	SC	7.5mt	400mt	3.0mt				F			6H	P	AD		☑
68	VTS2014	.065 sq in	SC	8.4m	400mt	3.36m			100m	C			5C	P	AD		PV1u☑
69	VTS3014	.065 sq in	SC	8.4m	400mt	3.36m			100m	C			5C	P	AD		PV1ac☑
70	SS20	.124 sq in	SC	12m	400m	4.8m			100m	F	800n		6H	P	AD		PV1bd☑
71	SS11	.1395 sq in	SC	14m	400m	5.6m			100m	F	800n		6H	P	AD		PV1bb☑
72	SS50	.155 sq in	SC	15m	400m	6.0m			100m	F	800n		6H	P	AD		PV1bi☑
73	SS100	1.00x1.00 §	SC	15m	400m	6.0m			100m		800n					A	PV53☑
74	ST200	.124 sq in	SC	15mt	400mt	6.0mt				F			6H	P	AD		☑
75	ST500	.155 sq in	SC	15mt	400mt	6.0m				F			6H	P	AD		☑
76	ST101	.139 sq in	SC	17mt	400mt	6.8mt				F			6H	P	AD		☑
77	VTS2018	.130 sq in	SC	17m	400mt	6.8m			100m	C			5C	P	AD		PV1v☑
78	VTS3018	.130 sq in	SC	17m	400mt	6.8m			100m	C			5C	P	AD		PV1ad☑
79	SS31	.2232 sq in	SC	18m	400m	7.2m			100m	F	800n		6H	P	AD		PV60Ø
80	VTS2020	.140 sq in	SC	18m	400mt	7.2m			100m	C			5C	P	AD		PV1w☑
81	VTS3020	.140 sq in	SC	18m	400mt	7.2m			100m	C			5C	P	AD		PV1ae☑
82	VTS3020N	.140 sq in	SC	18m	400mt	7.2m			100m	C			5C	N	AD		PV1ae☑
83	ST301	.186 Sq In	SC	20mt	400mt	8.0mt				F			6H	P	AD		
84	VTS2022	.140 sq in	SC	21m	430mt	9.03m			100m	C			5C	P	AD		PV1w☑
85	VTS3022	.140 sq in	SC	21m	430mt	9.03m			100m	C			5C	P	AD		PV1ae☑
86	SS10	.279 sq in	SC	28m	400m	11.2m			100m	F	800n		6H	P	AD		PV1ba☑
87	ST100	.279 sq in	SC	35mt	400mt	14mt				F			6H	P	AD		☑
88	SP2A40B	1.55x1.55 in	SC	36m	1.6	58m			100m		800n		28		AD		PV9☑
89	SP4C40B	1.60x.75 in	SC	36m	3.2	115m			100m		800n		28		AD		PV2☑
90	VTS2024	.290 sq in	SC	38m	400mt	15.2m			100m	C			5C	P	AD		PV1x☑
91	VTS3024	.290 sq in	SC	38m	400mt	15.2m			100m	C			5C	P	AD		PV1af☑
92	SP2B48B	1.55x1.55 in	SC	40m	1.6	64m			100m		800n		28		AD		PV9☑
93	SP4D48B	1.60x.75 in	SC	40m	3.2	128m			100m		800n		28		AD		PV2☑
94	VTS2026	.290 sq in	SC	44m	430mt	18.9m			100m	C			5C	P	AD		PV1x☑
95	VTS3026	.290 sq in	SC	44m	430mt	18.9m			100m	C			5C	P	AD		PV1af☑
96#	N120CG8		SC	47m	430mt	20.2m			140m	G	900n			N	AD		PV1bu☑
97#	N120CGL8		SC	47m	430mt	20.2m			140m	G	900n			N	AD		PV1bu☑
98#	MS11A	.666 in	SC	48mA†	500mA†		3.0k			C	850n		5C*		AD	A	PV41Ø
99#	N210CG8		SC	49.5m	430mt	21.3m			140m	G	900n			N	AD		PV93☑
100#	N210CGL8		SC	49.5m	430mt	21.3m			140m	G	900n			N	AD		PV93a☑
101#	N120CG9		SC	52.8m	430mt	22.7m			140m	G	900n			N	AD		PV1bu☑
102#	N120CGL9		SC	52.8m	430m	22.7m			140m	G	900n			N	AD		PV1bu☑
103#	MS11AE	.664 in	SC	54mA†	500mA†		3.0k			C	850n		58*		AD		PV42Ø
104#	MS11B	.666 in	SC	54mA†	550mA†		3.0k			C	850n		5C*		AD	A	PV41Ø
105#	N210CG9		SC	55.6m	430mt	23.9m			140m	G	900n			N	AD		PV93☑
106#	N210CGL9		SC	55.6m	430mt	23.9m			140m	G	900n			N	AD		PV93a☑
107#	N120CG10		SC	58.6m	430mt	25.2m			140m	G	900n			N	AD		PV1bu☑
108#	N120CGL10		SC	58.6m	430mt	25.2m			140m	G	900n			N	AD		PV1bu☑
109	S2900E5M	1.25 in Dia§	SC	60m	400m	24m			100m		800n		28		AD		PV3Ø
110	SS40	.589 sq in	SC	60m	400m	24m			100m	F	800n		6H	P	AD		PV1bh☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

17. SENSOR: PHOTOVOLTAIC CELL

IN ORDER OF:(1)CELL USE (2)MIN.OUTPUT CURR. (3)MIN. OUTPUT VOLT. & (4)TYPE No.

LINE No.	4 TYPE No	ACTIVE SURFACE	1 CELL USE	2 MIN. OUTPUT CURR-Io Δ-Isc (A)	3 MIN. OUTPUT VOLT-Vo Δ-Voc (V)	MIN. OUTPUT PWR. Po (W)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/ cm2)	SOURC	PEAK WAVE LENGTH λp (m)	MAX. REV. VOLT VR (V)	TEMP RNG. CODE - +	POLARITY	MATERIAL & FEATURES MAT	LEAD CODE	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	SS200A	1.312 §	SC	60m	400m	24m			100m		800n		6H		AD	A	PV54Ø
2#	MS11BE	.664 in	SC	60mΔ†	550mΔ†		3.0k			C	850n		58*		AD		PV42Ø
3#	N210CG10		SC	61.9m	430mƒ	26.6m			140m	G	900n			N	AD		PV93☑
4#	N210CGL10		SC	61.9m	430mƒ	26.6m			140m	G	900n			N	AD		PV93a☑
5#	N120CG11		SC	64.5m	430mƒ	27.7m			140m	G	900n			N	AD		PV1bu☑
6#	N120CGL11		SC	64.5m	430mƒ	27.7m			140m	G	900n			N	AD		PV1bu☑
7#	N210CG11		SC	68.1m	430mƒ	29.3m			140m	G	900n			N	AD		PV93☑
8#	N210CGL11		SC	68.1m	430mƒ	29.3m			140m	G	900n			N	AD		PV93a☑
9	SP2C80B	1.60x.75 in	SC	72m	1.6	115m			100m		800n		28		AD		PV2☑
10	SS30	.744 sq in	SC	75m	400m	30m			100m	F	800n		6H	P	AD		PV5fØ
11	VTS2028	.610 sq in	SC	79m	400mƒ	31.6m			100m	C			5C	P	AD		PV1yØ
12	VTS3028	.610 sq in	SC	79m	400mƒ	31.6m			100m	C			5C	P	AD		PV1agØ
13	ST400	.589 sq in	SC	80mƒ	400mƒ	32mƒ				F			6H	P	AD		☑
14	ST400G	.589 sq in	SC	80mƒ	430mƒ	32mƒ				F			6H	P	AD		
15	SP2D96B	1.60x.75 in	SC	80m	1.6	128m			100m		800n		28		AD		PV2☑
16	S2900E7M	1.25 in Dia§	SC	90m	400m	36m			100m		800n		28		AD		PV3Ø
17	SS200B	1.312 §	SC	90m	400m	36m			100m		800n		6H		AD	A	PV54Ø
18	ST300	.744 Sq In	SC	90mƒ	400mƒ	36mƒ				F			6H	P	AD		Ø
19#	S224		SC	90mΔ	5.5 Δ	360m			100m	B			38*				PV122☑
20#	N220CG8		SC	99.1m	430mƒ	42.6m			140m	G	900n			N	AD		PV1bn☑
21	VTS2050	.850 sq in	SC	110m	400mƒ	44m			100m	C			5C	P	AD		PV5eØ
22	VTS3050	.850 sq in	SC	110m	400mƒ	44m			100m	C			5C	P	AD		PV5eØ
23#	N220CG9		SC	111m	430mƒ	47.9m			140m	G	900n			N	AD		PV1bn☑
24#	MS12	.875 in dia	SC	120mΔ†	330mΔ†		3.0k			C	850u		58*		AD		PV45Ø
25	S2900E9.5M	1.25 in Dia§	SC	120m	400m	48m			100m		800n		28		AD		PV3Ø
26	SS200C	1.312 §	SC	120m	400m	48m			100m		800n		6H		AD	A	PV54Ø
27#	N220CG10		SC	123m	430mƒ	53.2m			140m	G	900n			N	AD		PV1br☑
28#	SS2020G	.5673 sq in	SC	125m	430mƒ	55.9mƒ			140m		760n		X2♦	N	AD		PV86☑
29#	N220CG11		SC	136m	430mƒ	58.5m			140m	G	900n			N	AD		PV1br☑
30#	SS202MG		SC	140mƒΔ	540mƒΔ	55.9m			140m	B			5A*				PV86☑
31#	FRB150	.787x.757 in	SC	140mΔ†	550mΔ†										AD		PV48☑
32	SS200D	1.312 §	SC	150m	400m	60m			100m		800n		6H		AD	A	PV54Ø
33#	N240CG8		SC	197m	430mƒ	85.1m			140m	G	900n			N	AD		PV1bs☑
34#	N240CGL8		SC	197m	430mƒ	85.1m			140m	G	900n			N	AD		PV1bs☑
35#	N240CG9		SC	222m	430mƒ	95.8m			140m	G	900n			N	AD		PV1bs☑
36#	N240CGL9		SC	222m	430mƒ	95.8m			140m	G	900n			N	AD		PV1bs☑
37#	MST10	1.978 sq in	SC	240mƒ	535mΔ†	100mƒ			100m	S				N	AD		PV139
38#	N240CG10		SC	247m	430mƒ	106m			140m	G	900n			N	AD		PV1bs☑
39#	N240CGL10		SC	247m	430mƒ	106m			140m	G	900n			N	AD		PV1bs☑
40#	N240CG11		SC	272m	430mƒ	117m			140m	G	900n			N	AD		PV1bs☑
41#	N240CGL11		SC	272m	430mƒ	117m			140m	G	900n			N	AD		PV1bs☑
42#	S225		SC	500mƒΔ	3.0 †Δ	900m			100m	B			4C*				PV123☑
43#	MST12	3.816 sq in	SC	585mƒ	580mΔ†	250mƒ			100m	S	800n			N	AD		PV140
44	ST223-2	.020x.125 in	TC	85u	85m		1.0k			F	850n	2.0	6C*		AD	A	PV67aØ
45	ST223-1	.055x.125 in	TC	250u	250m		1.0k			F	850n	2.0	6C*		AD	A	PV67Ø
46	STN-EC080-080-060S	.080x.080 in§	TC	280ut Δ			800				800n			N	AD Ag Wire	♦	PV68☑
47	STN-EC080-080-060W	.080x.080 in§	TC	280ut Δ			800				800n			N	AD	♦	PV68☑
48	STP-EC080-080-060S	.080x.080 in	TC	280ut Δ			800				800n			P	AD Ag Wire	♦	PV68☑
49#	MS9A	.084x.039 in	TC	300uΔ†	500mΔ†		3.0k			C	850n		5C*		AD	A	PV37a☑
50#	MS9AE	.084x.039 in	TC	300uΔ†	500mΔ†		3.0k			C	850n		58*		AD		PV34☑
51#	MS9B	.084x.039 in	TC	300uΔ†	500mΔ†		3.0k			C	850n		5C*		AD	A	PV37a☑
52#	MS9BE	.084x.039 in	TC	300uΔ†	500mΔ†		3.0k			C	850n		58*		AD		PV34☑
53	STN-EC200-100-060S	.200x.100 in§	TC	550ut Δ			500				800n			N	AD Ag Wire	♦	PV68b☑
54	STN-EC200-100-060W	.200x.100 in§	TC	550ut Δ			500				800n			N	AD	♦	PV68b☑
55	STP-EC200-100-060S	.200x.100 in	TC	550ut Δ			500				800n			P	AD Ag Wire	♦	PV68b☑
56	STP-EC200-100-060W	.200x.100 in	TC	550ut Δ			500				800n			P	AD	♦	PV68b☑
57	STN-EC200-080-060S	.200x.080 in§	TC	570ut Δ			700				800n			N	AD Ag Wire	♦	PV68a☑
58	STN-EC200-080-060W	.200x.080 in§	TC	570ut Δ			700				800n			N	AD	♦	PV68a☑
59	STP-EC200-080-060S	.200x.080 in	TC	570ut Δ			700				800n			P	AD Ag Wire	♦	PV68a☑
60	STP-EC200-080-060W	.200x.080 in	TC	570ut Δ			700				800n			P	AD	♦	PV68a☑
61#	MPS1A	.137x.072 in	TC	1.0mΔ†	500mΔ†		3.0k			C					AD	B	PV33☑
62#	MPS1AE	.137x.072 in	TC	1.0mΔ†	500mΔ†		3.0k			C					AD		PV34☑
63#	MPS1B	.137x.072 in	TC	1.0mΔ†	500mΔ†		3.0k			C					AD	B	PV33☑
64#	MPS1BE	.137x.072 in	TC	1.0mƒΔ	500mƒΔ		3.0k			C					AD		PV34☑
65#	MS1A	.15x.084 in	TC	1.0mΔ†	500mΔ†		3.0k			C	850n		5C*		AD	B	PV33☑
66#	MS1AE	.15x.084 in	TC	1.0mΔ†	500mΔ†		3.0k			C	850n		58*		AD		PV34☑
67#	MS1B	.15x.084 in	TC	1.0mΔ†	500mΔ†		3.0k			C	850n		5C*		AD	B	PV33☑
68#	MS1BE	.15x.084 in	TC	1.0mΔ†	500mΔ†		3.0k			C	850n		58*		AD		PV34☑
69	STP-EC080-080-060W	.080x.080 in	TC	280 †Δ			800				800n			P	AD	♦	PV68☑

18. SENSOR: PHOTOVOLTAIC ARRAY

IN ORDER OF: (1)TYPE OF ARRAY (2)PWR OUTPUT (3)OUTPUT CURR. (4)OUTPUT VOLT. &(5)TYPE No.

LINE No.	[5] TYPE No.	[1] TYPE OF ARR-AY	NO OF ELEM	[2] PWR OUT Po (W)	[3] O/P CURR. Io Δ-Isc (A)	[4] O/P VOLT Vo Δ-Voc (V)	RESP. TIME (S)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SRC	RL (Ω)	TEMP RNG. CODE - +	ACT -IVE AREA (in2)	CENTER SPACING (in)	POLAR -ITY	MATER -IAL	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1	3SM1020GE8PL	PC	3	43nØ	36mØ	1.2				100m			28	919m		P	AD		PV1d☑
2	5SM1020GE10T	PC	5	90nØ	45mØ	2.0				100m			28	1.5		P	AD		PV1h☑
3	VTS2060	PC	3	10m	8.4m	1.2	20u			100m	C		5C	195m		P	AD		PV1ah☑
4	VTS3060	PC	3	10m	8.4m	1.2	20u			100m	C		5C	195m		P	AD		PV1as☑
5	2SM1020A4	PC	2	14mØ	18mØ	800m				100m			28	621m		N	AD		PV1☑
6	2SM1020A4PL	PC	2	14mØ	18mØ	800m				100m			28	621m		N	AD		PV1a☑
7	2SM1020A4T	PC	2	14mØ	18mØ	800m				100m			28	621m		N	AD		PV1b☑
8	2SM1020E4	PC	2	14mØ	18mØ	800m				100m			28	621m		P	AD		PV1☑
9	2SM1020E4PL	PC	2	14mØ	18mØ	800m				100m			28	621m		P	AD		PV1a☑
10	2SM1020E4T	PC	2	14mØ	18mØ	800m				100m			28	621m		P	AD		PV1b☑
11	VTS2064	PC	5	16m	8.4m	2.0	20u			100m	C		5C	325m		P	AD		PV1an☑
12	VTS3064	PC	5	16m	8.4m	2.0	20u			100m	C		5C	325m		P	AD		PV1aw☑
13	2SM1020A5	PC	2	18mØ	21.5mØ	800m				100m			28	621m		N	AD		PV1☑
14	2SM1020A5PL	PC	2	18mØ	21.5mØ	800m				100m			28	621m		N	AD		PV1a☑
15	2SM1020A5T	PC	2	18mØ	21.5mØ	800m				100m			28	621m		N	AD		PV1b☑
16	2SM1020E5	PC	2	18mØ	21.5mØ	800m				100m			28	621m		P	AD		PV1☑
17	2SM1020E5PL	PC	2	18mØ	21.5mØ	800m				100m			28	621m		P	AD		PV1a☑
18	2SM1020E5T	PC	2	18mØ	21.5mØ	800m				100m			28	621m		P	AD		PV1b☑
19	VTS2061	PC	3	20m	17m	1.2	20u			100m	C		5C	390m		P	AD		PV1aj☑
20	VTS3061	PC	3	20m	17m	1.2	20u			100m	C		5C	390m		P	AD		PV1at☑
21	3SM1020A4	PC	3	21mØ	18mØ	1.2				100m			28	919m		N	AD		PV1c☑
22	3SM1020A4PL	PC	3	21mØ	18mØ	1.2				100m			28	919m		N	AD		PV1d☑
23	3SM1020A4T	PC	3	21mØ	18mØ	1.2				100m			28	919m		N	AD		PV1e☑
24	3SM1020E4	PC	3	21mØ	18mØ	1.2				100m			28	919m		P	AD		PV1c☑
25	3SM1020E4PL	PC	3	21mØ	18mØ	1.2				100m			28	919m		P	AD		PV1d☑
26	3SM1020E4T	PC	3	21mØ	18mØ	1.2				100m			28	919m		P	AD		PV1e☑
27	VTS2062	PC	3	21m	18m	1.2	20u			100m	C		5C	420m		P	AD		PV1ak☑
28	VTS3062	PC	3	21m	18m	1.2	20u			100m	C		5C	420m		P	AD		PV1au☑
29	2SM1020A6	PC	2	21mØ	27mØ	800m				100m			28	621m		N	AD		PV1☑
30	2SM1020A6PL	PC	2	21mØ	27mØ	800m				100m			28	621m		N	AD		PV1a☑
31	2SM1020A6T	PC	2	21mØ	27mØ	800m				100m			28	621m		N	AD		PV1b☑
32	2SM1020E6	PC	2	21mØ	27mØ	800m				100m			28	621m		P	AD		PV1☑
33	2SM1020E6PL	PC	2	21mØ	27mØ	800m				100m			28	621m		P	AD		PV1a☑
34	2SM1020E6T	PC	2	21mØ	27mØ	800m				100m			28	621m		P	AD		PV1b☑
35	2SM1020A7	PC	2	25mØ	31.6mØ	800m				100m			28	621m		N	AD		PV1☑
36	2SM1020A7PL	PC	2	25mØ	31.6mØ	800m				100m			28	621m		N	AD		PV1a☑
37	2SM1020A7T	PC	2	25mØ	31.6mØ	800m				100m			28	621m		N	AD		PV1b☑
38	2SM1020E7	PC	2	25mØ	31.6mØ	800m				100m			28	621m		P	AD		PV1☑
39	2SM1020E7PL	PC	2	25mØ	31.6mØ	800m				100m			28	621m		P	AD		PV1a☑
40	2SM1020E7T	PC	2	25mØ	31.6mØ	800m				100m			28	621m		P	AD		PV1b☑
41	3SM1020A5	PC	3	27mØ	21.5mØ	1.2				100m			28	919m		N	AD		PV1c☑
42	3SM1020A5PL	PC	3	27mØ	21.5mØ	1.2				100m			28	919m		N	AD		PV1d☑
43	3SM1020A5T	PC	3	27mØ	21.5mØ	1.2				100m			28	919m		N	AD		PV1e☑
44	3SM1020E5	PC	3	27mØ	21.5mØ	1.2				100m			28	919m		P	AD		PV1c☑
45	3SM1020E5PL	PC	3	27mØ	21.5mØ	1.2				100m			28	919m		P	AD		PV1d☑
46	3SM1020E5T	PC	3	27mØ	21.5mØ	1.2				100m			28	919m		P	AD		PV1e☑
47	2SM1020A8	PC	2	28mØ	36mØ	800m				100m			28	621m		N	AD		PV1☑
48	2SM1020A8PL	PC	2	28mØ	36mØ	800m				100m			28	621m		N	AD		PV1a☑
49	2SM1020A8T	PC	2	28mØ	36mØ	800m				100m			28	621m		N	AD		PV1b☑
50	2SM1020GE8	PC	2	28mØ	36mØ	800m				100m			28	621m		P	AD		PV1☑
51	2SM1020GE8PL	PC	2	28mØ	36mØ	800m				100m			28	621m		P	AD		PV1a☑
52	2SM1020GE8T	PC	2	28mØ	36mØ	800m				100m			28	621m		P	AD		PV1b☑
53	3SM1020A6	PC	3	32mØ	27mØ	1.2				100m			28	919m		N	AD		PV1c☑
54	3SM1020A6PL	PC	3	32mØ	27mØ	1.2				100m			28	919m		N	AD		PV1d☑
55	3SM1020A6T	PC	3	32mØ	27mØ	1.2				100m			28	919m		N	AD		PV1e☑
56	3SM1020E6	PC	3	32mØ	27mØ	1.2				100m			28	919m		P	AD		PV1c☑
57	3SM1020E6PL	PC	3	32mØ	27mØ	1.2				100m			28	919m		P	AD		PV1d☑
58	3SM1020E6T	PC	3	32mØ	27mØ	1.2				100m			28	919m		P	AD		PV1e☑
59	2SM1020GE9	PC	2	32mØ	40.5mØ	800m				100m			28	621m		P	AD		PV1☑
60	2SM1020GE9PL	PC	2	32mØ	40.5mØ	800m				100m			28	621m		P	AD		PV1a☑
61	2SM1020GE9T	PC	2	32mØ	40.5mØ	800m				100m			28	621m		P	AD		PV1b☑
62	VTS2065	PC	5	34m	17m	2.0	20u			100m	C		5C	650m		P	AD		PV1ap☑
63	VTS3065	PC	5	34m	17m	2.0	20u			100m	C		5C	650m		P	AD		PV1ax☑
64	5SM1020A4	PC	5	36mØ	18mØ	2.0				100m			28	1.5		N	AD		PV1f☑
65	5SM1020A4PL	PC	5	36mØ	18mØ	2.0				100m			28	1.5		N	AD		PV1g☑
66	5SM1020A4T	PC	5	36mØ	18mØ	2.0				100m			28	1.5		N	AD		PV1h☑
67	5SM1020E4	PC	5	36mØ	18mØ	2.0				100m			28	1.5		P	AD		PV1f☑
68	5SM1020E4PL	PC	5	36mØ	18mØ	2.0				100m			28	1.5		P	AD		PV1g☑
69	5SM1020E4T	PC	5	36mØ	18mØ	2.0				100m			28	1.5		P	AD		PV1h☑
70	VTS2066	PC	5	36m	18m	2.0	20u			100m	C		5C	700m		P	AD		PV1aq☑
71	VTS3066	PC	5	36m	18m	2.0	20u			100m	C		5C	700m		P	AD		PV1ay☑
72	2SM1020GE10	PC	2	36mØ	45mØ	800m				100m			28	621m		P	AD		PV1☑
73	2SM1020GE10PL	PC	2	36mØ	45mØ	800m				100m			28	621m		P	AD		PV1a☑
74	2SM1020GE10T	PC	2	36mØ	45mØ	800m				100m			28	621m		P	AD		PV1b☑
75	3SM1020A7	PC	3	37mØ	31.6mØ	1.2				100m			28	919m		N	AD		PV1c☑
76	3SM1020A7PL	PC	3	37mØ	31.6mØ	1.2				100m			28	919m		N	AD		PV1d☑
77	3SM1020A7T	PC	3	37mØ	31.6mØ	1.2				100m			28	919m		N	AD		PV1e☑
78	3SM1020E7	PC	3	37mØ	31.6mØ	1.2				100m			28	919m		P	AD		PV1c☑
79	3SM1020E7PL	PC	3	37mØ	31.6mØ	1.2				100m			28	919m		P	AD		PV1d☑
80	3SM1020E7T	PC	3	37mØ	31.6mØ	1.2				100m			28	919m		P	AD		PV1e☑
81	3SM1020A8	PC	3	43mØ	36mØ	1.2				100m			28	919m		N	AD		PV1c☑
82	3SM1020A8PL	PC	3	43mØ	36mØ	1.2				100m			28	919m		N	AD		PV1d☑
83	3SM1020A8T	PC	3	43mØ	36mØ	1.2				100m			28	919m		N	AD		PV1e☑
84	3SM1020GE8	PC	3	43mØ	36mØ	1.2				100m			28	919m		P	AD		PV1c☑
85	3SM1020GE8T	PC	3	43mØ	36mØ	1.2				100m			28	919m		P	AD		PV1e☑
86	5SM1020A5	PC	5	45mØ	21.5mØ	2.0				100m			28	1.5		N	AD		PV1f☑
87	5SM1020A5PL	PC	5	45mØ	21.5mØ	2.0				100m			28	15		N	AD		PV1g☑
88	5SM1020A5T	PC	5	45mØ	21.5mØ	2.0				100m			28	1.5		N	AD		PV1h☑
89	5SM1020E5	PC	5	45mØ	21.5mØ	2.0				100m			28	1.5		P	AD		PV1f☑
90	5SM1020E5PL	PC	5	45mØ	21.5mØ	2.0				100m			28	1.5		P	AD		PV1g☑
91	5SM1020E5T	PC	5	45mØ	21.5mØ	2.0				100m			28	1.5		P	AD		PV1h☑
92	VTS2063	PC	3	45m	38m	1.2	20u			100m	C		5C	870m		P	AD		PV1am☑
93	VTS3063	PC	3	45m	38m	1.2	20u			100m	C		5C	870m		P	AD		PV1av☑
94	3SM1020GE9	PC	3	48mØ	40.5mØ	1.2				100m			28	919m		P	AD		PV1c☑
95	3SM1020GE9PL	PC	3	48mØ	40.5mØ	1.2				100m			28	919m		P	AD		PV1d☑
96	3SM1020GE9T	PC	3	48mØ	40.5mØ	1.2				100m			28	919m		P	AD		PV1e☑
97	5SM1020A6	PC	5	54mØ	27mØ	2.0				100m			28	1.5		N	AD		PV1f☑
98	5SM1020A6PL	PC	5	54mØ	27mØ	2.0				100m			28	1.5		N	AD		PV1g☑
99	5SM1020A6T	PC	5	54mØ	27mØ	2.0				100m			28	1.5		N	AD		PV1h☑
100	5SM1020E6	PC	5	54mØ	27mØ	2.0				100m			28	1.5		P	AD		PV1f☑
101	5SM1020E6PL	PC	5	54mØ	27mØ	2.0				100m			28	1.5		P	AD		PV1g☑
102	5SM1020E6T	PC	5	54mØ	27mØ	2.0				100m			28	1.5		P	AD		PV1h☑
103	3SM1020GE10	PC	3	54mØ	45mØ	1.2				100m			28	919m		P	AD		PV1c☑
104	3SM1020GE10PL	PC	3	54mØ	45mØ	1.2				100m			28	919m		P	AD		PV1d☑
105	3SM1020GE10T	PC	3	54mØ	45mØ	1.2				100m			28	919m		P	AD		PV1e☑
106	5SM1020A7	PC	5	63mØ	31.6mØ	2.0				100m			28	1.5		N	AD		PV1f☑
107	5SM1020A7PL	PC	5	63mØ	31.6mØ	2.0				100m			28	1.5		N	AD		PV1g☑
108	5SM1020A7T	PC	5	63mØ	31.6mØ	2.0				100m			28	1.5		N	AD		PV1h☑
109	5SM1020E7	PC	5	63mØ	31.6mØ	2.0				100m			28	1.5		P	AD		PV1f☑
110	5SM1020E7PL	PC	5	63mØ	31.6mØ	2.0				100m			28	1.5		P	AD		PV1g☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

18. SENSOR: PHOTOVOLTAIC ARRAY

IN ORDER OF: (1)TYPE OF ARRAY (2)PWR OUTPUT (3)OUTPUT CURR. (4)OUTPUT VOLT. &(5)TYPE No.

LINE No.	5 TYPE No.	1 TYPE OF ARR -AY	NO OF ELEM	2 PWR OUT Po (W)	3 O/P CURR. Io Δ-Isc (A)	4 O/P VOLT Vo Δ-Voc (V)	RESP. TIME (S)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SRC	RL (Ω)	TEMP RNG. CODE - +	ACT -IVE AREA (in2)	CENTER SPACING (in)	POLAR -ITY	MATER -IAL	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1	5SM1020E7T	PC	5	63mØ	31.6mØ	2.0				100m			28	1.5		P	AD		PV1h☑
2	5SM1020A8	PC	5	72mØ	36mØ	2.0				100m			28	1.5		N	AD		PV1f☑
3	5SM1020A8PL	PC	5	72mØ	36mØ	2.0				100m			28	1.5		N	AD		PV1g☑
4	5SM1020A8T	PC	5	72mØ	36mØ	2.0				100m			28	1.5		N	AD		PV1h☑
5	5SM1020GE8	PC	5	72mØ	36mØ	2.0				100m			28	1.5		P	AD		PV1f☑
6	5SM1020GE8PL	PC	5	72mØ	36mØ	2.0				100m			28	1.5		P	AD		PV1g☑
7	5SM1020GE8T	PC	5	72mØ	36mØ	2.0				100m			28	1.5		P	AD		PV1h☑
8#	HSSP2-40	PC		72m	36m	2.0				100m							AD		
9	VTS2067	PC	5	76m	38m	2.0	20u			100m	C		5C	1.4		P	AD		PV1ar☑
10	VTS3067	PC	5	76m	38m	2.0	20u			100m	C		5C	1.4		P	AD		PV1az☑
11	5SM1020GE9	PC	5	81mØ	40.5mØ	2.0				100m			28	1.5		P	AD		PV1f☑
12	5SM1020GE9PL	PC	5	81mØ	40.5mØ	2.0				100m			28	1.5		P	AD		PV1g☑
13	5SM1020GE9T	PC	5	81mØ	40.5mØ	2.0				100m			28	1.5		P	AD		PV1h☑
14	5SM1020GE10	PC	5	90mØ	45mØ	2.0				100m			28	1.5		P	AD		PV1f☑
15	5SM1020GE10PL	PC	5	90mØ	45mØ	2.0				100m			28	1.5		P	AD		PV1g☑
16	SPM75-16	PC		640m	40m	16				100m	C						AD		PV52☑
17	SPM75-8	PC		640m	80m	8.0				100m	C						AD		PV52☑
18	SPM75-4	PC		640m	160m	4.0				100m	C						AD		PV52☑
19	SPM75-2	PC		640m	320m	2.0				100m	C						AD		PV52☑
20	SPM100-24	PC		960m	40m	24				100m	C						AD		PV52a☑
21	SPM100-12	PC		960m	80m	12				100m	C						AD		PV52a☑
22	SPM100-4	PC		960m	240m	4.0				100m	C						AD		PV52a☑
23	SPM100-2	PC		960m	480m	2.0				100m	C						AD		PV52a☑
24#	CSP4.7	PC	12	1.0 Ø		4.7				100m			6E*						PV89☑
25#	CSP7	PC	12	1.0 Ø		7.0				100m			6E*						PV89☑
26#	CSP14	PC	12	1.0 Ø		14				100m			6E*						PV89☑
27#	CSP16.5	PC	12	1.0 Ø		16.5				100m			6E*						PV89☑
28#	CSP28	PC	12	1.0 Ø		28				100m			6E*						PV89☑
29	SPM200-18	PC		1.0	60m	180				100m	C						AD		PV52c☑
30	SPM200-6	PC		1.0	180m	60				100m	C						AD		PV52c☑
31	SPM150-3.6	PC		1.0	300m	3.6				100m	C						AD		PV52b☑
32	SPM200-2	PC		1.0	400m	2.0				100m	C						AD		PV52c☑
33	SPM150-36	PC		1.4	40m	36				100m	C						AD		PV52b☑
34	SPM150-18	PC		1.4	80m	18				100m	C						AD		PV52b☑
35	SPM150-12	PC		1.4	120m	12				100m	C						AD		PV52b☑
36	SPM150-6	PC		1.4	240m	6.0				100m	C						AD		PV52b☑
37	SPM150-2	PC		1.4	720m	2.0				100m	C						AD		PV52b☑
38	49-2666	PC	17	2.3 ☑	.30 ☑	7.5 ☑		11k		100m			46				AD		
39	49-2653	PC	32	4.5 ☑	.30 ☑	15 ☑		11k		100m			46				AD		
40▼	MSP26A05	PC	36	7.3	440mØ	15.8				100m	S		48*				AD		PV135☑
41♦	MSP26A10	PC	36	8.3	500mØ	15.8				100m	S		48*				AD		PV146☑
42♦	MSP26A30	PC	36	9.1	550mØ	15.8				100m	S		48*				AD		PV146☑
43#	BPX47A	PC	34	10	730mΔ	20				100m							AD		PV104☑
44	SS10-8	PC	8	11 #	28m#	400m	20u			100m	F		6H	279m		P	AD		PV61Δ
45▼	MSP02A05	PC	36	16	980mØ	15.8				100m	S		48*				AD		PV135☑
46♦	MSP02A10	PC	36	18	1.10 Ø	15.8				100m	S		48*				AD		PV135☑
47	49-2591	PC	33	18 ☑	1.2 ☑	15 ☑		11k		100m			46				AD		
48♦	MSP02A30	PC	36	20	1.20 Ø	15.8				100m	S		48*				AD		PV135☑
49▼	MSP01A05	PC	48	22	980mØ	21.1				100m	S		48*				AD		PV134☑
50▼	MSP01B05	PC	48	22	1.96 Ø	10.5				100m	S		48*				AD		PV134☑
51▼	MSP01D05	PC	48	22	3.92 Ø	5.28				100m	S		48*				AD		PV134☑
52▼	MSP01E05	PC	48	22	5.88 Ø	3.52				100m	S		48*				AD		PV134☑
53♦	MSP01A10	PC	48	24	1.10 Ø	21.1				100m	S		48*				AD		PV134☑
54▼	MSP01B10	PC	48	24	2.20 Ø	10.5				100m	S		48*				AD		PV134☑
55♦	MSP01D10	PC	48	24	4.40 Ø	5.28				100m	S		48*				AD		PV134☑
56♦	MSP01E10	PC	48	24	6.59 Ø	3.52				100m	S		48*				AD		PV134☑
57♦	MSP01A30	PC	48	26	1.20 Ø	21.1				100m	S		48*				AD		PV134☑
58▼	MSP01B30	PC	48	26	2.40 Ø	10.5				100m	S		48*				AD		PV134☑
59♦	MSP01D30	PC	48	26	4.80 Ø	5.28				100m	S		48*				AD		PV134☑
60♦	MSP01E30	PC	48	26	7.19 Ø	3.52				100m	S		48*				AD		PV134☑
61	HPC2	RO	2		205u#			500			F	1.0k			100m				PV91Δ
62#	HPC3	RO	3		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
63#	HPC4	RO	4		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
64#	HPC5	RO	5		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
65#	HPC6	RO	6		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
66#	HPC7	RO	7		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
67#	HPC8	RO	8		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
68#	HPC9	RO	9		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
69#	HPC10	RO	10		260u	260m	10u	500			F		6A*		100m	P,N	AD		PV91Δ
70	STN-EC9-080-080-060	RO	9		280uΔ			800							80m	N	AD		PV69bΔ
71	STN-EC12-080-080-060	RO	12		280uΔ			800							80m	N	AD		PV69bΔ
72	STP-EC9-080-080-060	RO	9		280uΔ			800							80m	P	AD		PV69bΔ
73	STP-EC12-080-080-060	RO	12		280uΔ			800							80m	P	AD		PV69bΔ
74	STN-EC9-200-100-060	RO	9		540uΔ			500							100m	N	AD		PV69Δ
75	STN-EC12-200-100-060	RO	12		540uΔ			500							100m	N	AD		PV69Δ
76	STP-EC9-200-100-060	RO	9		540uΔ			500							100m	P	AD		PV69Δ
77	STP-EC12-200-100-060	RO	12		540uΔ			500							100m	P	AD		PV69Δ
78	STN-EC9-200-080-060	RO	9		560uΔ			700							80m	N	AD		PV69aΔ
79	STN-EC12-200-080-060	RO	12		560uΔ			700							80m	N	AD		PV69aΔ
80	STP-EC9-200-080-060	RO	9		560uΔ			700							80m	P	AD		PV69aΔ
81	STP-EC12-200-080-060	RO	12		560uΔ			700							80m	P	AD		PV69aΔ
82	SSR10-002	RO	10	32m	225uΔ	325mΔ	20u	500			F		6H	8.4m	87m				PV39Δ
83	SSR4-001	RO	4	73m	250uΔ	325mΔ	20u	500			F		6H	10m	100m				PV39aΔ
84	SSR5-001	RO	5	73m	250uΔ	325mΔ	20u	500			F		6H	10m	100m				PV39aΔ
85	SSR6-001	RO	6	73m	250uΔ	325mΔ	20u	500			F		6H	10m	100m				PV39aΔ
86	SSR7-001	RO	7	73m	250uΔ	325mΔ	20u	500			F		6H	10m	100m				PV39aΔ
87	SSR8-001	RO	8	73m	250uΔ	325mΔ	20u	500			F		6H	10m	100m				PV39aΔ
88	SSR9-001	RO	9	73m	250uΔ	325mΔ	20u	500			F		6H	10m	100m				PV39aΔ
89	SSR10-001	RO	10	73m	250uΔ	325mΔ	20u	500			F		6H	10m	100m				PV39aΔ
90	SSHR4-001	RO	4	90m	300uΔ	325mΔ	10u	500			F		6H	8.7m	100m	N			PV56Δ
91	SSHR5-001	RO	5	90m	300uΔ	325mΔ	10u	500			F		6H	8.7m	100m	N			PV56aΔ
92	SSHR6-001	RO	6	90m	300uΔ	325mΔ	10u	500			F		6H	8.7m	100m	N			PV56bΔ
93	SSHR7-001	RO	7	90m	300uΔ	325mΔ	10u	500			F		6H	8.7m	100m	N			PV56cΔ
94	SSHR8-001	RO	8	90m	300uΔ	325mΔ	10u	500			F		6H	8.7m	100m	N			PV56dΔ
95	SSHR9-001	RO	9	90m	300uΔ	325mΔ	10u	500			F		6H	8.7m	100m	N			PV56eΔ
96	SSHR10-001	RO	10	90m	300uΔ	325mΔ	10u	500			F		6H	8.7m	100m	N			PV56fΔ
97#	SC31-001	TC	4		166u#	480mΔ				100m			5A*	10m	63m		AD		PV115g
98#	SC34	TC	9		172uΔ#	480mΔ				100m			5A*	96m	71m		AD		PV115d

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

18. SENSOR: PHOTOVOLTAIC ARRAY

IN ORDER OF: (1)TYPE OF ARRAY (2)PWR OUTPUT (3)OUTPUT CURR. (4)OUTPUT VOLT. &(5)TYPE No.

LINE No.	5 TYPE No.	1 TYPE OF ARR-AY	NO OF ELEM	2 PWR OUT Po (W)	3 O/P CURR. Io Δ-Isc (A)	4 O/P VOLT Vo Δ-Voc (V)	RESP. TIME (S)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	S R C	RL (Ω)	TEMP RNG. CODE - +	ACT -IVE AREA (in2)	CENTER SPACING (in)	POLAR -ITY	MATER -IAL	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1#	SC6	TC	3		188uΔ#	480mΔ				100m			5A*	11m			AD		PV115b
2#	SC31-002	TC	6		249u#	480mΔ				100m			5A*	15m	63m		AD		PV115g
3#	SC32	TC	2		260u#	480mΔ				100m			5A*	16m			AD		PV115h
4#	SC33	TC	11		297u#	480mΔ				100m			5A*	18m	39m		AD		PV115c
5#	SC16	TC	2		322uΔ#	480mΔ				100m			5A*	20m			AD		PV115e
6#	SC9	TC	5		327uΔ#	480mΔ				100m			5A*	20m			AD		PV115a
7#	SC8	TC	12		499uΔ#	480mΔ				100m			5A*	30m			AD		PV115f
8#	SC31-003	TC	12		499u#	480mΔ				100m			5A*	30m	63m		AD		PV115g
9#	SC12	TC	9		1.7mΔ#	480mΔ				100m			5A*	108m	100m		AD		PV115
10	SAR1-08B	TC	1	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10☑
11	SAR1-08BPL	TC	1	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10w☑
12	SAR1-08PL	TC	1	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10at☑
13	SAR2-08B	TC	2	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10a☑
14	SAR2-08BPL	TC	2	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10x☑
15	SAR2-08PL	TC	2	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10au☑
16	SAR3-08B	TC	3	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10b☑
17	SAR3-08BPL	TC	3	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10y☑
18	SAR3-08PL	TC	3	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10av☑
19	SAR4-08B	TC	4	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10c☑
20	SAR4-08BPL	TC	4	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10z☑
21	SAR4-08PL	TC	4	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10aw☑
22	SAR5-08B	TC	5	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10d☑
23	SAR5-08BPL	TC	5	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10aa☑
24	SAR5-08PL	TC	5	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10ax☑
25	SAR6-08B	TC	6	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10e☑
26	SAR6-08BPL	TC	6	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10ab☑
27	SAR6-08PL	TC	6	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10ay☑
28	SAR7-08B	TC	7	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10f☑
29	SAR7-08BPL	TC	7	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10ac☑
30	SAR7-08PL	TC	7	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10az☑
31	SAR8-08B	TC	8	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10g☑
32	SAR8-08BPL	TC	8	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10ad☑
33	SAR8-08PL	TC	8	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10ba☑
34	SAR9-08B	TC	9	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10h☑
35	SAR9-08BPL	TC	9	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10ae☑
36	SAR9-08PL	TC	9	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10bb☑
37	SAR10-08B	TC	10	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10j☑
38	SAR10-08BPL	TC	10	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10af☑
39	SAR10-08PL	TC	10	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	N	AD		PV10bc☑
40	SPR1-08B	TC	1	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10☑
41	SPR1-08BPL	TC	1	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10w☑
42	SPR1-08PL	TC	1	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10at☑
43	SPR2-08B	TC	2	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10a☑
44	SPR2-08BPL	TC	2	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10x☑
45	SPR2-08PL	TC	2	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10au☑
46	SPR3-08B	TC	3	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10b☑
47	SPR3-08BPL	TC	3	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10y☑
48	SPR3-08PL	TC	3	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10av☑
49	SPR4-08B	TC	4	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10c☑
50	SPR4-08BPL	TC	4	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10z☑
51	SPR4-08PL	TC	4	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10aw☑
52	SPR5-08B	TC	5	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10d☑
53	SPR5-08BPL	TC	5	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10aa☑
54	SPR5-08PL	TC	5	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10ax☑
55	SPR6-08B	TC	6	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10e☑
56	SPR6-08BPL	TC	6	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10ab☑
57	SPR6-08PL	TC	6	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10ay☑
58	SPR7-08B	TC	7	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10f☑
59	SPR7-08BPL	TC	7	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10ac☑
60	SPR7-08PL	TC	7	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10az☑
61	SPR8-08B	TC	8	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10g☑
62	SPR8-08BPL	TC	8	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10ad☑
63	SPR8-08PL	TC	8	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10ba☑
64	SPR9-08B	TC	9	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10h☑
65	SPR9-08BPL	TC	9	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10ae☑
66	SPR9-08PL	TC	9	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10bb☑
67	SPR10-08B	TC	10	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10j☑
68	SPR10-08BPL	TC	10	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10af☑
69	SPR10-08PL	TC	10	32u	250 Δ	325 Δ	2.0u	500			F	1.0k	28	14m	87m	P	AD		PV10bc☑
70	SAR1-10B	TC	1	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10k☑
71	SAR1-10BPL	TC	1	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10ag☑
72	SAR1-10PL	TC	1	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bd☑
73	SAR2-10B	TC	2	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10m☑
74	SAR2-10BPL	TC	2	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10ah☑
75	SAR2-10PL	TC	2	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10be☑
76	SAR3-10B	TC	3	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10n☑
77	SAR3-10BPL	TC	3	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10aj☑
78	SAR3-10PL	TC	3	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bf☑
79	SAR4-10B	TC	4	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10p☑
80	SAR4-10BPL	TC	4	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10ak☑
81	SAR4-10PL	TC	4	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bg☑
82	SAR5-10B	TC	5	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10q☑
83	SAR5-10BPL	TC	5	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10am☑
84	SAR5-10PL	TC	5	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bh☑
85	SAR6-10B	TC	6	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10r☑
86	SAR6-10BPL	TC	6	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10an☑
87	SAR6-10PL	TC	6	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bi☑
88	SAR7-10B	TC	7	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10s☑
89	SAR7-10BPL	TC	7	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10ap☑
90	SAR7-10PL	TC	7	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bk☑
91	SAR8-10B	TC	8	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10t☑
92	SAR8-10BPL	TC	8	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10aq☑
93	SAR8-10PL	TC	8	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bm☑
94	SAR9-10B	TC	9	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10u☑
95	SAR9-10BPL	TC	9	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10ar☑
96	SAR9-10PL	TC	9	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bn☑
97	SAR10-10B	TC	10	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10v☑
98	SAR10-10BPL	TC	10	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10as☑
99	SAR10-10PL	TC	10	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	N	AD		PV10bo☑
100	SPR1-10B	TC	1	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10k☑
101	SPR1-10BPL	TC	1	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10ag☑
102	SPR1-10PL	TC	1	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bd☑
103	SPR2-10B	TC	2	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10m☑
104	SPR2-10BPL	TC	2	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10ah☑
105	SPR2-10PL	TC	2	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10be☑
106	SPR3-10B	TC	3	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10n☑
107	SPR3-10BPL	TC	3	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10aj☑
108	SPR3-10PL	TC	3	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bf☑
109	SPR4-10B	TC	4	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10p☑
110	SPR4-10BPL	TC	4	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10ak☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

18. SENSOR: PHOTOVOLTAIC ARRAY

IN ORDER OF: (1)TYPE OF ARRAY (2)PWR OUTPUT (3)OUTPUT CURR. (4)OUTPUT VOLT. &(5)TYPE No.

LINE No.	5 TYPE No.	1 TYPE OF ARR -AY	NO OF ELEM	2 PWR OUT Po (W)	3 O/P CURR. Io Δ-Isc (A)	4 O/P VOLT Vo Δ-Voc (V)	RESP. TIME (S)	TEST CONDITIONS Ev FT.C (fc)	Ev LUX (lx)	Ee (W/cm2)	SRC	RL (Ω)	TEMP RNG. CODE - +	ACT -IVE AREA (in2)	CENTER SPACING (in)	POLAR -ITY	MATER -IAL	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP * CHIP
1	SPR4-10PL	TC	4	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bg☑
2	SPR5-10B	TC	5	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10q☑
3	SPR5-10BPL	TC	5	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10am☑
4	SPR5-10PL	TC	5	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bh☑
5	SPR6-10B	TC	6	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10r☑
6	SPR6-10BPL	TC	6	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10an☑
7	SPR6-10PL	TC	6	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bj☑
8	SPR7-10B	TC	7	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10s☑
9	SPR7-10BPL	TC	7	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10ap☑
10	SPR7-10PL	TC	7	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bk☑
11	SPR8-10B	TC	8	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10t☑
12	SPR8-10BPL	TC	8	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10aq☑
13	SPR8-10PL	TC	8	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bm☑
14	SPR9-10B	TC	9	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10u☑
15	SPR9-10BPL	TC	9	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10ar☑
16	SPR9-10PL	TC	9	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bn☑
17	SPR10-10B	TC	10	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10v☑
18	SPR10-10BPL	TC	10	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10as☑
19	SPR10-10PL	TC	10	73u	315 Δ	325 Δ	2.0u	500			F	1.0k	28	17m	100m	P	AD		PV10bp☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

25. PHOTOCOUPLER: PHOTOCELL (LDR,VOLTAIC) OUTPUT

IN ORDER OF: (1)TYPE OF PHOTOCELL (2)ISOLATION VOLT. VIO & (3) TYPE No.

LINE No.	[3] TYPE No.	[1] TYPE OF PHOTO CELL	MAX. PWR. DISS. -CASE (W)	TEMP RNG. CODE - +	COUPLED CHAR. [2] VIO ISOL VOLT (V)	RISE TIME (S)	DECAY TIME (S)	INPUT SOURCE TYPE	RATED VOLT Δ-VR (V)	RATED CURR. Δ-IR (A)	OUTPUT PHOTOCELL @ RATED INPUT DC CELL VOLT *AC ΔPk (V)	SHORT CKT.I Isc (A)	OPEN CKT.V Voc (V)	ON RESIS. Ron (Ω)	OFF RESIS. Roff (Ω)	MATER. & FEATURE MAT	SCHEM -ATIC	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1	CK2060	LDR		46					6.0	120m							CA11	PH105Ø
2	CLM5H10A	LDR	90m	27		120m☐	70m☐	INC	10 Δ	17m	100 Δ☐			3.0k	10MØ	BA 5.0§		PH23Ø
3	CLM7H16A	LDR	75m	27		90m☐	100m☐	INC	16 Δ	17m	170 Δ☐			550	10MØ	BA 5.0§		PH23Ø
4	MCL702A	LDR	80m			16m	100m	INC	3.0	16m				400	1.0M	10§		PH39
5	MCL703C	LDR	80m			10m	120m	INC	10	16m				400	5.0M	10§		PH39
6	MCL716A	LDR	200m			8.0m	40m	INC	5.0	30m				500	10M	10§		PH39
7	MCL723C	LDR	200m			8.0m	60m	INC	10	16m				250	5.0M	10§		PH39
8	MCN701A	LDR	60m			2.0m	80m	GAS	100	1.9m				500	3.0M	10§		PH39
9	MCN721A	LDR	200m			1.0m	40m	GAS	100	1.9m				400	5.0M	10§		PH39
10	MTL703C	LDR	70m			8.0m	60m	I	10	16m				200	5.0M	10§		PH39
11	MTL716A	LDR	150m			6.0m	60m	I	5.0	30m				150	10M	10§		PH39
12	MTL726A	LDR	150m			6.0m	60m	I	5.0	30m				60	5.0M	10§		PH39
13#	MCD735	LDR	125m	27	50	3.0m	8.0m	LED	1.9	15m	3.0k			150 ☐	1.0MØ			PH65Ø
14#	MCD521%	LDR	125m	27	150	1.0m	40m	LED	1.8	30m	800			1.0k☐	3.0MØ			PH64Ø
15#	MTD533-6%	LDR	75m	27	300	3.0m	5.0m	LED	2.0	20m	1.5k			10k☐	100MØ		CA7	PH66Ø
16#	CHS74GS2	LDR	80m	35	400	4.0	80	LED	3.0	10m	200 ☐			3.0k	10M	BA;5§	♦	PH109Ø
17	CK1114	LDR	100mΔ	56	500	25m	275m	INC	1.0	18m☐	100 ☐			650 ☐	10MØ	BB	CA2	PH17g
18	CK1115	LDR	100mΔ	56	500	35m	300m	INC	4.0	55m☐	200 ☐			200 ☐	10MØ	BB	CA2	PH17g
19	CK1116	LDR	100mΔ	56	500	30m	350m	INC	4.0	20m☐	100 ☐			350 ☐	10MØ	BB	CA2	PH17g
20	CK1117	LDR	100mΔ	26	500	30m	300m	INC	3.0	15m☐	100 ☐			400 ☐	10MØ	BB		PH17gØ
21	CK1121W	LDR	100mΔ		500	35m	300m	INC	5.0	55m☐	100 ☐			150 ☐	10MØ	BB		PH103Ø
22	CK2000B	LDR	100mΔ	26	500	40m	400m	INC	25	37m☐	100 ☐			40 ☐	10MØ	BB		PH103Ø
23	CK2003	LDR	100mΔ	26	500	30m	250m	INC	10	18m☐	100 ☐			225 ☐	10MØ	BB		PH103Ø
24	CK2013	LDR	100m♦	37	500	35m	700m	INC	25	37m☐	100 ☐			100 ☐	1.0MØ	CF		PH103Ø
25	CK2028B	LDR	100m♦	37	500	40m	850m	INC	25	37m☐	100 ☐			200 ☐	1.0MØ	BA		PH103Ø
26	CK2039	LDR	100m♦	26	500	30m	300m	INC	1.0	18m☐	100 ☐			800 ☐	1.0MØ	BB		PH17gØ
27	CK2046	LDR	100m♦	26	500	25m	300m	INC	1.0	18m☐	100 ☐			350 ☐	1.0MØ	BB		PH17gØ
28	CK2070	LDR	100m♦	37	500	25m	550m	INC	1.0	18m☐	100 ☐			2.5k☐	1.0MØ	BA		PH17gØ
29	CK2071	LDR	100m♦	56	500	35m	850m	INC	4.0	55m	100 ☐			1.0k☐	1.0MØ	BA	CA2	PH17gØ
30	CK2072	LDR	100m♦	56	500	30m	600m	INC	4.0	20m☐	100 ☐			1.8k☐	1.0MØ	BA	CA2	PH17gØ
31	CK2080	LDR	150m♦	26	500	35m	550m	INC	4.0	55m☐	240 ☐			750 ☐	100MØ	BB		PH17gØ
32	CK2095	LDR	75m♦	37	500	35m	850m	INC	4.0	20m☐	75 ☐			1.2k☐	1.0MØ	BA		PH17gØ
33	CK2101	LDR	100m♦	26	500	20m	500m	INC	5.0	22m☐	100 ☐			50 ☐	1.0MØ	BB		PH17gØ
34	CK2112	LDR	125m♦	37	500	35m	350m	INC	10	18m☐	150 ☐			300 ☐	10MØ	CF		PH103Ø
35	CK2118	LDR	100m♦		500	35m	300m	INC	4.0	55m☐	100 ☐			100 ☐	1.0MØ	CF		PH17gØ
36	CK2124	LDR	100m♦	37	500	25m	800m	INC	3.0	15m☐	100 ☐			450 ☐	1.0MØ	CF		PH17gØ
37	CK2127	LDR	100m♦	37	500	25m	700m	INC	3.0	15m☐	100 ☐			700 ☐	1.0MØ	CF		PH17gØ
38	CK2140	LDR	145m	36	500	2.0m	15m	LED	3.0 Δ	25m	100			7.5k☐	50MØ	BB	CA3	PH17gØ
39	CK2141	LDR	170m	36	500	4.0m	120m	LED	3.0 Δ	25m	150 ☐			5.0k☐	50MØ	BB	CA3	PH17gØ
40	CK2142	LDR	170m	37	500	5.0m	650m	LED	3.0 Δ	25m	150 ☐			500 ☐	10MØ	CF	CA3	PH17gØ
41	CK2143	LDR	170m	37	500	5.0m	850m	LED	3.0 Δ	25m	150 ☐			3.0k☐	5.0MØ	CF	CA3	PH17gØ
42	CK2150	LDR	125m♦	36	500	40m	800m	INC	5.0	55m☐	75 ☐			300 ☐	1.0MØ	Dual	CA14	PH99Ø
43	CK2151	LDR	125m♦	37	500	60m	850m	INC	5.0	55m☐	75 ☐			850 ☐	1.0MØ	Dual	CA14	PH99Ø
44	CK2153	LDR	125m♦	36	500	50m	800m	INC	3.0	15m☐	75 ☐			1.0k☐	1.0MØ	Dual	CA14	PH99Ø
45	CK2154	LDR	125m♦	37	500	50m	850m	INC	3.0	15m☐	75 ☐			8.0k☐	1.0MØ	Dual	CA14	PH99Ø
46	CK2155	LDR	150m♦	26	500	10m	500m	LED	3.0	40m☐	75 ☐			900 ☐	1.0MØ	CF Dual	CA14	PH99Ø
47	CK2157	LDR	150m♦	37	500	10m	650m	LED	3.0	40m☐	75 ☐			600 ☐	1.0MØ	BA Dual	CA14	PH99Ø
48	CK2170	LDR	150m♦	36	500	35m	800m	INC	10	18m☐	75 ☐			850 ☐	1.0MØ	Dual	CA13	PH106☐
49	CK2171	LDR	150m♦	37	500	35m	950m	INC	10	18m☐	75 ☐			2.0k☐	1.0MØ	Dual	CA13	PH106☐
50	CK2172	LDR	150m♦	26	500	45m	950m	INC	25	37m☐	75 ☐			300 ☐	1.0MØ	CF Dual		PH106Ø
51	CK2173	LDR	150m♦	37	500	10m	650m	LED	3.0	25m☐	75 ☐			600 ☐	1.0MØ	CF Dual		PH106Ø
52	MCD521H	LDR	125m	38	500	1.0m	40m	LED	3.0 Δ	30m	150			1.0k☐	3.0MØ	BB 5.0§		PH39
53	MCD521L	LDR	125m	38	500	2.0m	60m	LED	3.0 Δ	30m	150			600 ☐	1.0MØ	BB 5.0§		PH39
54	MCD522H	LDR	125m	38	500	1.0m	40m	LED	3.0 Δ	50m	150			1.0k☐	3.0MØ	BB 5.0§		PH39
55	MCD522L	LDR	125m	38	500	2.0m	60m	LED	3.0 Δ	50m	150			600 ☐	1.0MØ	BB 5.0§		PH39
56	MTD533	LDR	75m	37	500	500u	3.0m	LED	3.0 Δ	20m	200			10k☐	100MØ	BB 5.0§	CA6	PH39
57	MTD533-6	LDR	75m	37	500	500u	3.0m	LED	3.0 Δ	20m	200			10k☐	100MØ	BB 5.0§	CA7	PH39
58	MTD733-5	LDR	60m	37	500	3.0m	6.0m	LED	3.0 Δ	20m	150			5.0k☐	1.5MØ	BB 5.0§	CA6a	PH39
59	VTL1A1	LDR	100mΔ%	57	500	65m	350m☐	INC	1.5	50m	150 ☐			500 ☐	10M	. 5.0§	CA2	PH7Ø
60	VTL1A2	LDR	100mΔ%	57	500	50m	400m☐	INC	6.0	40m	150 ☐			250 ☐	10M	. 5.0§	CA2	PH7Ø
61	VTL1A3	LDR	100mΔ%	57	500	50m	150m☐	INC	10	14m	150 ☐			800 ☐	10M	. 5.0§	CA2	PH7Ø
62	VTL1A4	LDR	100mΔ%	57	500	75m	500m☐	INC	12	25m	150 ☐			250 ☐	10M	. 5.0§	CA2	PH7Ø
63	VTL1B5	LDR	100mΔ%	57	500	3.0m	60m☐	GAS	150	1.5m	150 ☐			1.0k☐	10M	. 5.0§	CA2	PH7Ø
64	VTL1B6	LDR	100mΔ%	57	500	5.0m	60m☐	GAS	90	300u	150 ☐			5.0k☐	10M	. 5.0§	CA2	PH7Ø
65	VTL2C1	LDR	100mΔ%	57	500	500u	3.5m☐	LED	2.0 ☐	40m	70 ☐			10k☐	100M	. 5.0§	CA3	PH7aØ
66	VTL2C2	LDR	100mΔ%	57	500	3.5m	500m☐	LED	2.0 ☐	40m	100 ☐			500 ☐	1.0M	. 5.0§	CA3	PH7aØ
67	VTL2C3	LDR	100mΔ%	57	500	2.5m	35m☐	LED	2.0 ☐	40m	300 ☐			2.0k☐	10M	. 5.0§	CA3	PH7aØ
68	VTL2C4	LDR	100mΔ%	57	500	6.0m	1.5 ☐	LED	2.0 ☐	40m	70 ☐			100 ☐	400k	. 5.0§	CA3	PH7aØ
69	VTL9A1	LDR	400m%	47	500	70m	350m☐	INC	1.5	50m	100 ☐			400 ☐	10M	. 5.0§	CA1	PH6Ø
70	VTL9A2	LDR	400m%	47	500	50m	350m☐	INC	6.0	40m	100 ☐			60 ☐	10M	. 5.0§	CA1	PH6Ø
71	VTL9A3	LDR	400m%	47	500	55m	160m☐	INC	10	14m	100 ☐			250 ☐	10M	. 5.0§	CA1	PH6Ø
72	VTL9A4	LDR	400m%	47	500	80m	400m☐	INC	10	22m	100 ☐			300 ☐	10M	. 5.0§	CA1	PH6Ø
73	VTL9A5	LDR	400m%	47	500	80m	225m☐	INC	10	22m	200 ☐			1.5k☐	10M	. 5.0§	CA1	PH6Ø
74	VTL9A9	LDR	400m%	47	500	55m	250m☐	INC	6.0	40m	300 ☐			200 ☐	10M	. 5.0§	CA1	PH6Ø
75	VTL9A10	LDR	400m%	47	500	60m	150m☐	INC	10	14m	300 ☐			800 ☐	10M	. 5.0§	CA1	PH6Ø
76	VTL9A11	LDR	400m%	47	500	90m	250m☐	INC	12	25m	300 ☐			600 ☐	10M	. 5.0§	CA1	PH6Ø
77	VTL9B6	LDR	400m%	47	500	3.0m	400m☐	GAS	125 Δ	1.5m	200 ☐			300 ☐	1.0M	. 5.0§	CA1	PH6Ø
78	VTL9B7	LDR	400m%	47	500	3.0m	90m☐	GAS	125 Δ	1.5m	300 ☐			800 ☐	10M	. 5.0§	CA1	PH6Ø
79	VTL9B8	LDR	400m%	47	500	5.0m	70m☐	GAS	80 Δ	300u	300 ☐			2.0k☐	10M	. 5.0§	CA1	PH6Ø
80	CK1121	LDR	100mΔ	56	1.0k	35m	300m	INC	5.0	55m☐	100 ☐			150 ☐	10MØ	BB		PH103
81	CK1122	LDR		56	1.0k	30m	300m	INC	10	18m☐	100 ☐			750 ☐	10MØ	BB		PH103
82	CK1122B	LDR	125mΔ		1.0k	30m	225m	INC	10	18m☐	200 ☐			600 ☐	100MØ	BB		PH103Ø
83	CK1122W	LDR	125mΔ		1.0k	30m	225m	INC	10	18m☐	200 ☐			850 ☐	100MØ	BB		PH103Ø
84	CK1123	LDR	100mΔ	56	1.0k	40m	400m	INC	25	37m☐	150 ☐			150 ☐	10MØ	BB		PH103
85	CK1124	LDR	100mΔ	56	1.0k	5.0m	125m	GAS	150	1.2m☐	150 ☐			3.0k☐	10MØ	BB		PH103
86	CK2000	LDR	100mΔ	26	1.0k	35m	400m	INC	25	37m☐	150 ☐			40 ☐	10MØ	BB		PH103Ø
87	CK2015	LDR	125m♦	26	1.0k	35m	175m	INC	25	37m☐	200 ☐			1.5k☐	100MØ	BB		PH103Ø
88	CK2018	LDR	125m♦	26	1.0k	35m	175m	INC	5.0	55m☐	200 ☐			200 ☐	1.0GØ	BB		PH103Ø
89	CK2019	LDR	1.0 ♦		1.0k	40m	750m	INC	25	37m☐	150 ☐			1.0k☐	1.0MØ	BB		PH103Ø
90	CK2028	LDR	100m♦	37	1.0k	40m	750m	INC	25	37m☐	100 ☐			200 ☐	5.0MØ	BA		PH103Ø
91	CK2028A	LDR	100m♦	37	1.0k	40m	850m	INC	25	37m☐	100 ☐			200 ☐	1.0MØ	BA		PH103Ø
92	CK2051	LDR	125m♦	27	1.0k	30m	950m	INC	10	18m☐	125 ☐			2.0k☐	1.0MØ	BA		PH103Ø
93	CK2052	LDR	125m♦	27	1.0k	40m	950m	INC	25	37m☐	125 ☐			300 ☐	1.0MØ	BA		PH103Ø
94	CK2053	LDR	125m♦	27	1.0k	40m	950m	INC	5.0	55m☐	125 ☐			1.2k☐	1.0MØ	BA		PH103Ø
95	CK2078	LDR	125m♦	26	1.0k	35m	350m	INC	10	18m☐	150 ☐			850 ☐	10MØ	BB		PH17hØ
96	CK2086	LDR	125m♦		1.0k	30m	300m	INC	10	18m☐	150 ☐			1.0k☐	10MØ	BB		PH103Ø
97	CK2132	LDR	125m♦		1.0k	30m	125m	INC	10	18m☐	150 ☐			750 ☐	100MØ	BB		PH103Ø
98	CK2137	LDR	125m♦	27	1.0k	50m	750m	INC	12	25m☐	150 ☐			500 ☐	10MØ	CF		PH17hØ
99	CK2139	LDR	125m♦		1.0k	40m	300m	INC	5.0	55m☐	125 ☐			100 ☐	10MØ	CF		PH103Ø
100	CK2147	LDR	125m♦	26	1.0k	3.0m	75m	LED	3.0	25m☐	150 ☐			1.0k☐	100MØ	BB		PH103☐
101	CK2148	LDR	125m♦	37	1.0k	15m	350m	LED	3.0	25m☐	125 ☐			300 ☐	1.0MØ	CF		PH103☐
102	CK2149	LDR	125m♦	37	1.0k	15m	700m	LED	3.0	25m☐	125 ☐			150 ☐	1.0MØ	CF		PH103☐
103	CK1101	LDR	100mΔ	56	1.5k	2.0m	60m	GAS	120	3.5m☐	100 ☐			1.0k☐	10MØ			PH100Ø
104	CK1101P	LDR	100mΔ	56	1.5k	2.0m	60m	GAS	120	3.5m☐	100 ☐			1.0k☐	10MØ		CA10	PH101☐
105	CK1102	LDR	100mΔ	56	1.5k	35m	350m	INC	1.0	50m☐	100 ☐			700 ☐	10mØ			PH100Ø
106	CK1102P	LDR	100mΔ	56	1.5k	35m	350m	INC	1.0	50m☐	100 ☐			700 ☐	10mØ		CA10	PH101☐
107	CK1103	LDR	100mΔ	56	1.5k	40m	750m	INC	5.0	200m☐	100 ☐			150 ☐	10mØ			PH100
108	CK1103P	LDR	100mΔ	56	1.5k	40m	750m	INC	5.0	200m☐	100 ☐			150 ☐	10mØ		CA10	PH101☐
109	CK1104	LDR	100mΔ	56	1.5k	35m	450m	INC	25	37m☐	100 ☐			150 ☐	10MØ			PH100
110	CK1104P	LDR	100mΔ	56	1.5k	35m	450m	INC	25	37m☐	100 ☐			150 ☐	10mØ		CA10	PH101☐

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

25. PHOTOCOUPLER: PHOTOCELL (LDR,VOLTAIC) OUTPUT

IN ORDER OF: (1)TYPE OF PHOTOCELL (2)ISOLATION VOLT. VIO & (3) TYPE No.

LINE No.	3 TYPE No.	1 TYPE OF PHOTO CELL	MAX. PWR. DISS. -CASE (W)	TEMP RNG. CODE - +	COUPLED CHAR. 2 VIO ISOL VOLT (V)	RISE TIME (S)	DECAY TIME (S)	INPUT SOURCE TYPE	RATED VOLT Δ-VR (V)	RATED CURR. Δ-IR (A)	OUTPUT PHOTOCELL @ RATED INPUT DC CELL VOLT *AC ΔPk (V)	SHORT CKT.I Isc (A)	OPEN CKT.V Voc (V)	ON RESIS. Ron (Ω)	OFF RESIS. Roff (Ω)	MATER. & FEATURE MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	CK1111	LDR		56	1.5k	2.0mΔ	105m#	GAS	120	3.0m	300 ☑			30k☑	25MØ			PH100
2	CK1111P	LDR		56	1.5k	2.0mΔ	105m#	GAS	120	3.0m	300 ☑			30k☑	25MØ			PH101
3	CK1112	LDR	100m♦	56	1.5k	30m	400m	INC	10	18m☑	100 ☑			700 ☑	10MØ			PH100
4	CK1112P	LDR	100m♦	56	1.5k	30m	400m	INC	10	18m☑	100 ☑			700 ☑	10MØ			PH101
5	CK1113	LDR	100mΔ	26	1.5k	5.0m	175m	LED	3.0	25m☑	100 ☑			400 ☑	10MØ			PH100Ø
6	CK1113P	LDR	100mΔ	26	1.5k	5.0m	175m	LED	3.0	25m☑	100 ☑			400 ☑	10mØ			PH101☑
7	CK2008P	LDR	100mΔ	27	1.5k	5.0m	120m	GAS	120	3.5m☑	100 ☑			300 ☑	10MØ	BB		PH101☑
8	CK2025P	LDR	100m♦	37	1.5k	30m	650m	INC	10	18m☑	100 ☑			1.0k☑	1.0mØ	BA		PH101☑
9	CK2033	LDR	250m♦	36	1.5k	40	500	INC	10	18m☑	200 ☑			500 ☑	10MØ		Dual	PH104Ø
10	CK2037	LDR	250m♦	26	1.5k	12m	450m	LED	3.0	25m☑	200 ☑			1.2k☑	1.0MØ	CF Dual		PH104Ø
11	CK2038	LDR	250m♦	37	1.5k	45m	850m	INC	10	18m☑	200 ☑			1.5k☑	1.0MØ		Dual	PH104Ø
12	CK2040	LDR	300m♦	26	1.5k	55m	500m	INC	25	37m☑	200 ☑			300 ☑	10MØ	BB Dual		PH111☑
13	CK2041	LDR	250m♦	26	1.5k	8.0m	100m	GAS	120	3.5m☑	150 ☑			1.0k☑	10MØ	BB Dual		PH111☑
14	CK2042	LDR	250m♦	37	1.5k	35m	950m	INC	10	18m☑	150 ☑			1.0k☑	1.0MØ	CF Dual		PH105Ø
15	CK2043	LDR	250m♦	37	1.5k	45m	950m	INC	25	37m☑	150 ☑			300 ☑	1.0MØ	CF		PH105Ø
16	CK2145	LDR	120m	37	1.5k	3.0m	900m	LED	3.0 Δ	25m☑	60			250 ☑	500kØ		CA3a	PH23eØ
17	CK2146	LDR	170m	37	1.5k	2.0m	30m	LED	3.0 Δ	25m☑	100			2.5k☑	10MØ		CA3a	PH23eØ
18	CK2160	LDR	150m♦	36	1.5k	35m	450m	INC	10	18m☑	75 ☑			850 ☑	10MØ	Dual	CA12	PH107Ø
19	CK2161	LDR	150m♦	37	1.5k	35m	850m	INC	10	18m☑	75 ☑			3.0k☑	1.0MØ	Dual	CA12	PH107Ø
20	CK2162	LDR	150m♦	26	1.5k	10m	600m	LED	3.0	25m☑	75 ☑			1.5k☑	1.0MØ	CF Dual	CA12	PH107Ø
21	CLM6000	LDR	50m	47%	1.5kØ	3.5m	500m☑	LED	2.0	20m	60 ☑			250 ☑	500kØ		CA3	PH19Ø
22#	MOC003	LDR	120m	26%	1.5k	10m☑	10m☑	LED	1.9	15m				3.0k☑	500kØ	CF-1§	CA3a	PH97Ø
23	PLF5S380	LDR	250m	66	1.5k			LED	2.0	25m	80			250	10M	BB		PH95Ø
24	PLF5S387	LDR	250m	66	1.5k			LED	2.0	25m	320			4.0k	100M	BB		PH95Ø
25	VTL3A11	LDR	550m	47	1.5k§	80m	300m☑	INC	1.5	55m	100 ☑			350m☑	5.0M		CA2	PH9Ø
26	VTL3A12	LDR	550m	47	1.5k§	40m	150m☑	INC	3.0	15m	100 ☑			350m☑	5.0M		CA2	PH9Ø
27	VTL3A13	LDR	550m	47	1.5k§	50m	250m☑	INC	4.0	60m	100 ☑			160m☑	5.0M		CA2	PH9Ø
28	VTL3A14	LDR	550m	47	1.5k§	50m	200m☑	INC	6.0	40m	100 ☑			160m☑	5.0M		CA2	PH9Ø
29	VTL3A15	LDR	550m	47	1.5k§	55m	200m☑	INC	10	14m	100 ☑			350m☑	5.0M		CA2	PH9Ø
30	VTL3A16	LDR	550m	47	1.5k§	70m	300m☑	INC	12	25m	100 ☑			400m☑	5.0M		CA2	PH9Ø
31	VTL3A17	LDR	550m	47	1.5k§	25m	150m☑	INC	12	40m	100 ☑			160m☑	5.0M		CA2	PH9Ø
32	VTL3A21	LDR	550m	47	1.5k§	80m	300m☑	INC	1.5	55m	200 ☑			800m☑	1.0M		CA2	PH9Ø
33	VTL3A22	LDR	550m	47	1.5k§	60m	300m☑	INC	3.0	15m	200 ☑			600m☑	1.0M		CA2	PH9Ø
34	VTL3A23	LDR	550m	47	1.5k§	80m	500m☑	INC	4.0	60m	200 ☑			300m☑	1.0M		CA2	PH9Ø
35	VTL3A24	LDR	550m	47	1.5k§	80m	300 ☑	INC	6.0	40m	200 ☑			350 ☑	1.0M		CA2	PH9Ø
36	VTL3A25	LDR	550m	47	1.5k§	120m	300 ☑	INC	10	14m	200 ☑			600 ☑	1.0M		CA2	PH9Ø
37	VTL3A26	LDR	550m	47	1.5k§	80m	500 ☑	INC	12	25m	200 ☑			500 ☑	1.0M		CA2	PH9Ø
38	VTL3A27	LDR	550m	47	1.5k§	80m	400 ☑	INC	12	40m	200 ☑			150 ☑	1.0M		CA2	PH9Ø
39	VTL3A31	LDR	550m	47	1.5k§	100m	100 ☑	INC	1.5	55m	250 ☑			5.0k☑	1.0M		CA2	PH9Ø
40	VTL3A31/2	LDR	550m	47	1.5k§	100m	100 ☑	INC	1.5	55m	125 §☑			7.5k§	1.0M	. Dual	CA2a	PH9bØ
41	VTL3A32	LDR	550m	47	1.5k§	55m	100 ☑	INC	3.0	15m	250 ☑			4.0k☑	10M		CA2	PH9Ø
42	VTL3A32/2	LDR	550m	47	1.5k§	55m	100 ☑	INC	3.0	15m	125 §☑			6.0k§	10M	. Dual	CA2a	PH9bØ
43	VTL3A33	LDR	550m	47	1.5k§	90m	175 ☑	INC	4.0	60m	250 ☑			500 ☑	10M		CA2	PH9Ø
44	VTL3A33/2	LDR	550m	47	1.5k§	90m	175 ☑	INC	4.0	60m	125 §☑			750 §	10M	. Dual	CA2a	PH9bØ
45	VTL3A34	LDR	550m	47	1.5k§	100m	150 ☑	INC	6.0	40m	250 ☑			800 ☑	10M		CA2	PH9Ø
46	VTL3A34/2	LDR	550m	47	1.5k§	100m	150 ☑	INC	6.0	40m	125 §☑			1.2k§	10M	. Dual	CA2a	PH9bØ
47	VTL3A35	LDR	550m	47	1.5k§	75m	100 ☑	INC	10	14m	250 ☑			3.0k☑	10M		CA2	PH9Ø
48	VTL3A35/2	LDR	550m	47	1.5k§	75m	100 ☑	INC	10	14m	125 §☑			4.5k§	10M	. Dual	CA2a	PH9bØ
49	VTL3A36	LDR	550m	47	1.5k§	90m	150 ☑	INC	12	25m	250 ☑			2.0k☑	10M		CA2	PH9Ø
50	VTL3A36/2	LDR	550m	47	1.5k§	90m	150 ☑	INC	12	25m	125 §☑			3.0k§	10M	. Dual	CA2a	PH9bØ
51	VTL3A37	LDR	550m	47	1.5k§	50m	150m☑	INC	12	40m	250 ☑			300 ☑			CA2	PH9Ø
52	VTL3A37/2	LDR	550m	47	1.5k§	50m	150m☑	INC	12	40m	125 §☑			450 §		. Dual	CA2a	PH9bØ
53	VTL3A41	LDR	550m	47	1.5k§	80m	900m☑	INC	1.5	55m	100 ☑			200 ☑			CA2	PH9Ø
54	VTL3A41/2	LDR	550m	47	1.5k§	80m	900m☑	INC	1.5	55m	50 §☑			300 §		. Dual	CA2a	PH9bØ
55	VTL3A42	LDR	550m	47	1.5k§	40m	750m☑	INC	3.0	15m	100 ☑			200 ☑			CA2	PH9Ø
56	VTL3A42/2	LDR	550m	47	1.5k§	40m	750m☑	INC	3.0	15m	50 §☑			300 §		. Dual	CA2a	PH9bØ
57	VTL3A43	LDR	550m	47	1.5k§	40m	900m☑	INC	4.0	60m	100 ☑			55 ☑			CA2	PH9Ø
58	VTL3A43/2	LDR	550m	47	1.5k§	40m	900m☑	INC	4.0	60m	50 §☑			82.5 §		. Dual	CA2a	PH9bØ
59	VTL3A44	LDR	550m	47	1.5k§	50m	800m☑	INC	6.0	40m	100 ☑			55 ☑			CA2	PH9Ø
60	VTL3A44/2	LDR	550m	47	1.5k§	50m	800m☑	INC	6.0	40m	50 §☑			82.5 §		. Dual	CA2a	PH9bØ
61	VTL3A45	LDR	550m	47	1.5k§	55m	750m☑	INC	10	14m	100 ☑			150 ☑			CA2	PH9Ø
62	VTL3A45/2	LDR	550m	47	1.5k§	55m	750m☑	INC	10	14m	50 §☑			225 §		. Dual	CA2a	PH9bØ
63	VTL3A46	LDR	550m	47	1.5k§	75m	900m☑	INC	12	25m	100 ☑			100 ☑			CA2	PH9Ø
64	VTL3A46/2	LDR	550m	47	1.5k§	75m	900m☑	INC	12	25m	50 §☑			150 §		. Dual	CA2a	PH9bØ
65	VTL3A47	LDR	550m	47	1.5k§	25m	900m☑	INC	12	40m	100 ☑			40 ☑			CA2	PH9Ø
66	VTL3A47/2	LDR	550m	47	1.5k§	25m	900m☑	INC	12	40m	50 §☑			60 §		. Dual	CA2a	PH9bØ
67	VTL3B18	LDR	550m	47	1.5k§	10m	30m☑	GAS	120 §		100 ☑			7.0k☑	50M		CA5	PH9aØ
68	VTL3B19	LDR	550m	47	1.5k§	5.0m	30m☑	GAS	120 §		100 ☑			1.1k☑	50M		CA5	PH9aØ
69	VTL3B28	LDR	550m	47	1.5k§	20m	200m☑	GAS	120 §		200 ☑			5.0k☑	1.0M		CA5	PH9aØ
70	VTL3B29	LDR	550m	47	1.5k§	8.0m	200m☑	GAS	120 §		200 ☑			650 ☑	1.0M		CA5	PH9aØ
71	VTL3B38	LDR	550m	47	1.5k§	20m	35m☑	GAS	120 §		250 ☑			15k☑	10M		CA5	PH9aØ
72	VTL3B38/2	LDR	550m	47	1.5k§	20m	35m☑	GAS	120 §		125 §☑			22.5 §	10M	. Dual	CA5a	PH9cØ
73	VTL3B39	LDR	550m	47	1.5k§	5.0m	35m☑	GAS	120 §		250 ☑			6.0k☑	10M		CA5	PH9aØ
74	VTL3B39/2	LDR	550m	47	1.5k§	5.0m	35m☑	GAS	120 §		125 §☑			9.0k§	10M	. Dual	CA5a	PH9cØ
75	VTL3B48	LDR	550m	47	1.5k§	20m	600m☑	GAS	120 §		100 ☑			1.0k☑	1.0M		CA5	PH9aØ
76	VTL3B48/2	LDR	550m	47	1.5k§	20m	600m☑	GAS	120 §		50 §☑			1.5k§	1.0M	. Dual	CA5a	PH9cØ
77	VTL3B49	LDR	550m	47	1.5k§	5.0m	600m☑	GAS	120 §		100 ☑			160k☑	1.0M		CA5	PH9aØ
78	VTL3B49/2	LDR	550m	47	1.5k§	5.0m	600m☑	GAS	120 §		50 §☑			240 §	1.0M	. Dual	CA5a	PH9cØ
79	VTL5C1	LDR	175mΔ%57		1.5kØ	2.5m	35m☑	LED	2.0 ☑	40m	100 ☑			500 ☑	50MØ	. 5.0§	CA4a	PH8aØ
80	VTL5C2	LDR	175mΔ%57		1.5kØ	3.5m	500m☑	LED	2.0 ☑	40m	200 ☑			500 ☑	1.0MØ	. 5.0§	CA4a	PH8aØ
81	VTL5C3	LDR	175mΔ%57		1.5kØ	2.5m	35m☑	LED	2.0 ☑	40m	250 ☑			2.0k☑	10MØ	. 5.0§	CA4a	PH8aØ
82	VTL5C3/2	LDR	175mΔ%57		1.5kØ	3.0m	50m☑	LED	2.0 ☑	40m	100 §☑			3.0k§	10MØ	Dual 5§	CA4	PH8Ø
83	VTL5C4	LDR	175mΔ%57		1.5kØ	6.0m	1.5 ☑	LED	2.0 ☑	40m	50 ☑			200 ☑	400kØ	. 5.0§	CA4a	PH8aØ
84	VTL5C4/2	LDR	175mΔ%57		1.5kØ	6.0m	1.5 ☑	LED	2.0 ☑	40m	30 §☑			300 §	400kØ	Dual 5§	CA4	PH8Ø
85	VTL5C6	LDR	175mΔ%57		1.5kØ	3.5m	50m☑	LED	2.0 ☑	40m	250 ☑			3.5k☑	100MØ	. 5.0§	CA4a	PH8aØ
86	VTL5C7	LDR	175mΔ%57		1.5kØ	6.0m	1.0 ☑	LED	2.0 ☑	2.0m	50 ☑			1.5k☑	1.0MØ	. 5.0§	CA4a	PH8aØ
87	CLM3000	LDR	250m	26*	1.6k§	50m	70m	INC	14	27m	175 Δ☑			500	1.0M			PH18☑
88	CLM3500	LDR	100m	26*	1.6k	3.0m	140m	GAS	120 §	1.0m	250 Δ☑			160	1.0MØ			PH18☑
89	CK2177	LDR	350m♦	26	2.0k	40m	300m	INC	12	24m☑	250 ☑			400 ☑	10MØ	BB		PH19aØ
90	CK2178	LDR	350m♦	26	2.0k	40m	500m	INC	12	24m☑	300 ☑			1.5k☑	10MØ	CF		PH19aØ
91	CLM50	LDR	50m	X7*	2.5k	500u	60m	LED	2.5 ☑	16mΔ	250 Δ			1.5k	1.0MØ	BD 5.0§	CA3b	PH11☑
92	CLM51	LDR	50m	X7*	2.5k	500u	60m	LED	2.5 ☑	16mΔ	250 Δ			1.25k	1.0MØ	BD 5.0§	CA3b	PH11☑
93	CLM60	LDR	50m	X7*	2.5k	500u	60m	LED	2.5 ☑	16mΔ	250 Δ			2.0k	1.0MØ	BD 5.0§	CA16	PH11☑
94	CLM61	LDR	50m	X7*	2.5k	500u	60m	LED	2.5 ☑	16mΔ	250 Δ			1.75k	1.0MØ	BD 5.0§	CA16	PH11☑
95	CLM3006A	LDR	85m	27	2.5k§	60m☑	170m☑	INC	6.0 Δ	40m	100 Δ☑				100MØ	5.0§		PH23Ø
96	CLM3012A	LDR	65m	27	2.5k§	80m☑	210m☑	INC	12 Δ	40m	100 Δ☑				100MØ	5.0§		PH23Ø
97	CLM3120A	LDR	100m	27	2.5k§	5.0m	60m	GAS	120 §		100 Δ				100MØ	5.0§		PH23Ø
98	CLM4006A	LDR	85m	27	2.5k§	80m☑	170m☑	INC	6.0 Δ	40m	100 Δ☑				1.0MØ	5.0§		PH23Ø
99	CLM4012A	LDR	65m	27	2.5k§	80m☑	180m☑	INC	12 Δ	40m	100 Δ☑				1.0MØ	5.0§		PH23Ø
100	CLM4120A	LDR	100m	27	2.5k§	5.0m	250m	GAS	120 §		100 Δ				1.0MØ	10§		PH23Ø
101	CLM6200	LDR	50m	47%	2.5k§	3.5m	12m	LED	2.0	16m	60 Δ☑			6.0k	10MØ		CA3	PH19Ø
102	CLM6500	LDR	50m	47%	2.5k§	5.0m	80m	LED	2.5	16m	100 Δ☑			300	10MØ		CA3	PH21bØ
103	CLM8000	LDR	125m	47%	2.5k§	3.5m	500m☑	LED		50m	220 ☑			400 ☑	500kØ		CA3	PH20Ø
104	CLM8200	LDR	125m	47%	2.5k§	3.0m	20m	LED	2.0	16m	220 Δ☑			2.8k	10MØ		CA4	PH20aØ
105	CLM8200-2	LDR	125m	47%	2.5k§	3.5m	30m	LED	2.0	16m	100 Δ☑			5.0k	10MØ		CA4a	PH89Ø
106	CLM8500	LDR	125m	47%	2.5k§	3.5m	20m	LED	2.8	15m	220 ☑			2.0k☑	10MØ		CA4	PH21Ø
107	CLM8500/2	LDR	125m	47%	2.5k§	5.0m	150m	LED	2.8	15m	100 ☑			1.0k☑	1.0MØ		CA4a	PH22Ø
108	CLM8500HV	LDR	125m	47%	2.5k§	3.5m	40m	LED	2.5	16m	400 Δ☑			5.0k	10MØ		CA3	PH21Ø
109	CLM8600	LDR	100m	47%	2.5k§	3.5m	40m	LED	2.5	16m	500 Δ☑			2.0k	10MØ		CA3	PH21Ø
110♦#	PCGS51PF	LDR	100m		2.5k	30m	100m	LED	2.0	10m	400			400	1.0M			PH109Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

25. PHOTOCOUPLER: PHOTOCELL (LDR,VOLTAIC) OUTPUT

IN ORDER OF: (1)TYPE OF PHOTOCELL (2)ISOLATION VOLT. VIO & (3) TYPE No.

LINE No.	3 TYPE No.	1 TYPE OF PHOTO CELL	MAX. PWR. DISS. -CASE (W)	TEMP RNG. CODE - +	COUPLED CHAR. 2 VIO ISOL VOLT (V)	RISE TIME (S)	DECAY TIME (S)	INPUT SOURCE TYPE	RATED VOLT Δ-VR (V)	RATED CURR. Δ-IR (A)	OUTPUT PHOTOCELL @ RATED INPUT DC CELL VOLT *AC ΔPk (V)	SHORT CKT.I Isc (A)	OPEN CKT.V Voc (V)	ON RESIS. Ron (Ω)	OFF RESIS. Roff (Ω)	MATER. & FEATURE MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1#	MCD526	LDR	180m	27	3.0k	2.0m	80m	LED	1.9	6.0m	150 ☑			2.0k☑	3.0MØ	BB		PH65Ø
2#	MCD527	LDR	210m	27	3.0k	1.0m	60m	LED	1.7	30m	150 ☑			1.0k☑	2.0MØ	BB		PH65Ø
3#	MCD537	LDR	165m	27	3.0k	3.0m	5.0m	LED	1.8	30m	300 ☑			5.0k☑	100MØ	BB		PH65Ø
4#	MCD718	LDR	100m		3.0k	20m	30m	LED	2.1	40m☑	250			26k☑	2.0MØ			PH65Ø
5#	MCD725	LDR	225m	26*	3.0k	10m☑	10m☑	LED	2.0 Δ	20m	350 ☑			1.1k☑	1.0MØ	CF-5§	CA3	PH96Ø
6♦	PL2H33-1	LDR	250m		3.0k	300mΔ	30m#	GAS	120	2.0m	80			100	10M	BB		PH93☑
7♦	PL2H36-1	LDR	250m		3.0k	300mΔ	30m#	GAS	120	2.0m	320			400	100M	BB		PH93☑
8♦	PL3A33-1	LDR	250m		3.0k	10mΔ	30m#	GAS	100	2.0m	80			150	10M	BB		PH93☑
9♦	PL3A36-1	LDR	250m		3.0k	10mΔ	30m#	GAS	100	2.0m	320			500	100M	BB		PH93☑
10	PL5S33-1	LDR	250m		3.0k			LED	2.0	25m	80			200	10M	BB		PH93☑
11	PL5S36-1	LDR	250m		3.0k			LED	2.0	25m	320			2.0k	100M	BB		PH93☑
12♦	PL1033-1	LDR	250m	66	3.0k	50mΔ	75m#	INC	10	15m	80			100	10M	BB		PH93☑
13♦	PL1036-1	LDR	250m	66	3.0k	50mΔ	75m#	INC	10	15m	320			400	100M	BB		PH93☑
14	CLM9000	LDR	400m		4.0k§		20m	LED	2.8	16m	3.5kΔ			1.2k	1000M			
15#	CHS70GE1	LDR	30m	17	5.0k	3.0	20	LED	3.0	10m	60 ☑			300	1.0M	BB;5§		PH23fØ
16	PLM5S310	LDR	200m		5.0k			LED	2.0	25m	80			500	10M	BB		PH94Ø
17	PLM5S387	LDR	200m		5.0k			LED	2.0	25m	320			5.0k	100M	BB		PH94Ø
18▼	PLT2H387	LDR	100m		7.5k	300mΔ	30m#	GAS*	200	2.0m	320			10k☑	100M	BB		PH64aØ
19▼	PLT3A384	LDR	100m		7.5k	10mΔ	30m#	GAS*	100	2.0m	80			750 ☑	10M	BB		PH64aØ
20▼	PLT3A387	LDR	100m		7.5k	10mΔ	30m#	GAS*	100	2.0m	320			15k☑	100M	BB		PH64aØ
21#	CHS70ANE1	LDR	50m	39	10k	6.0m	30m	GAS	100	300u	120			3.0k	10M			Ø
22	CK2029	LDR	250m♦	36	10k	35m	325m	INC	10	35m☑	250 ☑			2.0k☑	100MØ	BB		PH100aØ
23	CK2032	LDR	250m♦	36	10k	30m	300m	INC	10	18m☑	250 ☑			450 ☑	10MØ	BB		PH100aØ
24	CK2034	LDR	250m♦	37	10k	5.0m	175m	LED	3.0	25m☑	250 ☑			500 ☑	10MØ	CF		PH100aØ
25	CK2035	LDR	200m♦	37	10k	8.0m	350m	GAS	120	3.5m☑	250 ☑			1.0k☑	10MØ	CF		PH100aØ
26	CK2129	LDR	250m♦	37	10k	10m	350m	GAS	120	3.5m☑	250 ☑			2.0k☑	10MØ	CF		PH100aØ
27	PLS5S380	LDR	250m	66	10k			LED	2.0	25m	80			250	10M	BB		PH23dØ
28	PLS5S387	LDR	250m	66	10k			LED	2.0	25m	320			4.0k	100M	BB		PH23dØ
29♦	PLT2H384	LDR	100m		10k	300mΔ	30m#	GAS	200	2.0m	80			500	10M	BB		PH64aØ
30♦	PLT10384	LDR	100m		10k	90mΔ	125m#	INC	10	15m	80			400	10M	BB		PH64aØ
31♦	PLT10387	LDR	100m		10k	90mΔ	100m#	INC	10	15m	320			5.0k	100M	BB		PH64aØ
32	CK1105	LDR	250mΔ	56	25k	10m	800m	GAS	120	3.5m☑	300 ☑			10k☑	10mØ		CA2	PH102Ø
33	CK1106	LDR	250mΔ	26	25k	50m	700m	GAS	120	25m☑	250 ☑			300 ☑	10mØ			PH102Ø
34	CK1108	LDR	250m♦	56	25k	40m	650m	INC	5.0	200m☑	300 ☑			250 ☑	10MØ		CA2	PH102Ø
35	CK2030	LDR	250m♦	26	25k	30m	450m	INC	10	18m☑	300 ☑			700 ☑	10MØ	BB		PH102Ø
36	CK2065	LDR	250m♦	27	25k	30m	500m	INC	10	18m☑	300 ☑			500 ☑	10MØ	CF		PH102Ø
37	CK2066	LDR	250m♦	27	25k	40m	650m	INC	25	37m☑	300 ☑			350 ☑	10MØ	CF		PH102Ø
38	CK2067	LDR	250m♦	26	25k	10m	650m	LED	3.0	40m☑	300 ☑			1.0k☑	10MØ	CF		PH102Ø
39#	CHS70BGE1	LDR	50m	39	50k	6.0m	30m	LED	2.0	10m	120			1.0k	10M			Ø

26. PHOTOCOUPLER: PHOTOTRANSISTOR OUTPUT

IN ORDER OF:(1)PWR DISS.-Pcase (2) IC (3)CURR. TRANSFER RATIO & (4) TYPE No.

LINE No.	4 TYPE No.	MAXIMUM RATINGS @ 25°C: 1 PWR. DISS. Pcase (W)	2 COLL CURR. IC (A)	C/E VOLT VCEO (V)	REV. VOLT VR (V)	FWD. CURR. IF (A)	ISOL. VOLT VIO (V)	TEMP RNG. CODE - +	COUPLED CHARACTS. 3 CTR=IC/IF(MIN) CURR TRANSF RAT. hF	IF (A)	VCE (V)	RESP. TIME (S)	MAX INPUT DIODE CHAR. FWD.VOLT VF (V)	IF (A)	MAX.O/P TRANS. CHAR. COLL. SAT. VOLT VCE(SAT) (V)	IC (A)	IF (A)	P O L	M T L	SCHEM -ATIC	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1	STOC1420						3.0k	48*	10m	15m	6.0	2.0u#	1.5	15m	300m	100u	20m	AD		♦	PH90Ø
2	STOC1430						3.0k	47*	10m	15m	6.0	2.0u#	1.5	15m	300m	100u	20m	AD		♦	PH91☐
3	CNY18-1			32	3.0	60m	800		100m	10m					200m	2.5m	10m	AD		CB3c	PH7dØ
4	OPI5010						5.5k		100m	10m	5.0	3.0u#	1.5	10m	400m	250u	10m	NAD		CB4	PH58c☐
5	STOC1421						3.0k	48*	100m	15m	6.0	2.0u#	1.5	15m	300m	200u	15m	AD		♦	PH90Ø
6	STOC1431						3.0k	47*	100m	15m	6.0	2.0u#	1.5	15m	300m	200u	15m	AD		♦	PH91☐
7	CNY18-2			32	3.0	60m	800		160m	10m					200m	2.5m	10m	AD		CB3c	PH7dØ
8	CNY18-3			32	3.0	60m	800		250m	10m					200m	2.5m	10m	AD		CB3c	PH7dØ
9	STOC1422						3.0k	48*	250m	15m	6.0	2.0u#	1.5	15m	300m	200u	15m	AD		♦	PH90Ø
10	STOC1432						3.0k	47*	250m	15m	6.0	2.0u#	1.5	15m	300m	200u	15m	AD		♦	PH91☐
11	CNY17-1			70	3.0	60m	4.0k		400m	10m					300m	2.5m	10m	AD		CB4	PH16g*
12	CNY18-4			32	3.0	60m	800		400m	10m					200m	2.5m	10m	AD		CB3c	PH7dØ
13	CNY17-2			70	3.0	60m	4.0k		630m	10m					300m	2.5m	10m	AD		CB4	PH16g*
14	CNY17-3			70	3.0	60m	4.0k		1.0	10m					300m	2.5m	10m	AD		CB4	PH16g*
15	CNY17-4			70	3.0	60m	4.0k		1.6	10m					300m	2.5m	10m	AD		CB4	PH16g*
16#	ON3100	75m	30m	30	3.0	50m	1.5k	28	200m	5.0m	10	4.0u	1.5	50m	400m	2.0m	20m	N			PH16f☐
17#	CNY44	80m*♦	30m	50	3.0	30m	1.0k	5C§	300m	10m	10	2.0u#	1.6	30m	400m	3.0m	10m	NAD		CB1	PH7cØ
18#	CNY46	80m*♦	30m	50	3.0	30m	1.0k	5C§	300m	10m	10	2.0u#	1.6	30m	400m	3.0m	10m	NAD		CB1	PH7cØ
19	SPX1003-1	85m		10	2.0	30m	500	6A*	26m	15m	5.0	3.0u	2.0	30m	300m	200u	15m	NAD		CB1	PH38☐
20	SPX1003-2	85m		50	6.0	30m	500	6A*	133m	15m	5.0	3.0u	1.5	30m	300m	200u	15m	NAD		CB1	PH38☐
21#	TLP501	100m		45 Ø	6.0 Ø	60m	1.0kØ	3A*	100m	10m	10	5.0u#	1.2	10m				NAD		♦	PH14aØ
22	EL74A	100m		30	3.0	60m	1.5k	5A§	125m	10m	5.0	2.0u#	1.4	16m	400m	2.0m	16m	NAD		CB4	PH58a☐
23	OPI110	100m		30	3.0	40m	10k	48	125m	16m	5.0	2.0u#	1.5	20m	400m	1.8m	16m	NAD		CB3a	PH81Ø
24♦	OPI1264A	100m		32	3.0	40m	10k	48	250m	10m	5.0	4.0uΔ	1.5	20m	400m	1.6m	10m	NAD		CB3a	PH135Ø
25♦	OPI1264B	100m		32	3.0	40m	10k	48	500m	10m	5.0		1.5	20m	400m	1.6m	10m	NAD		CB3a	PH135Ø
26♦	OPI1264C	100m		32	3.0	40m	10k	48	1.0	10m	5.0		1.5	20m	400m	1.6m	10m	NAD		CB3a	PH135Ø
27▼#	ON1105	100m	20m	30	3.0	50m		3A%				6.0	1.5	50m	300m	100u	50m	NAD		FA23a	PH113
28#	ON1102	100m	20m	30	3.0	50m		28	100m	20m	10	4.0u	1.5	50m	400m	1.0m	50m	N		CB20	PH113☐
29#	CNY17	100m*	150m	32	3.0	60m	2.5k	5A*	100m☐	10m	5.0		1.6	60m	300m†	2.5m	10m	AD		♦	PH31a☐
30#	ON3101	120m	50m	30	3.0	80m	2.5k	28	1.0	5.0m	10	4.0u	1.5	50m	400m	1.0m	5.0m	N			PH16f☐
31	TIL107	150m		35	2.0	50m	1.0k	5F	33m	15m	5.0	5.0u#	1.5	15m	300m	125u	15m	NAD		♦	PH14Ø
32▼	TIL153	150m		30	3.0	100m	3.5k	5F%	100m	10m	10	2.0u#	1.4	10m	400m	1.0m	10m	NBC	♦		PH142
33	TIL108	150m		35	2.0	50m	1.0k	5F	106m	15m	5.0	5.0u#	1.5	15m	300m	125u	15m	NAD		♦	PH14Ø
34▼	TIL154	150m		30	3.0	100m	3.5k	5F%	200m	10m	10	2.0u#	1.4	10m	400m	1.0m	10m	NBC	♦		PH142
35▼	TIL155	150m		30	3.0	100m	3.5k	5F%	500m	10m	10	2.0u#	1.4	10m	400m	1.0m	10m	NBC	♦		PH142
36#	CNY47	150m*♦	30m	30	3.0	30m	2.0k	5A§	200m	10m	400m	3.0u	1.5	10m	400m	2.0m	10m	NAD		CB4	PH16☐
37#	CNY47A	150m*♦	30m	30	3.0	30m	2.0k	5A§	400m	10m	400m	5.0u	1.5	10m	400m	4.0m	10m	NAD		CB4	PH16☐
38#	SFH600I	150m*	50m	70	6.0 *	60m	2.8k	5A				3.0u	1.2	60m	300m	5.0m	10m	NAD			PH11*
39#	SFH600II	150m*	50m	70	6.0 *	60m	2.8k	5A				3.0u	1.2	60m	300m	10m	10m	NAD			PH11*
40#	SFH600III	150m*	50m	70	6.0 *	60m	2.8k	5A				4.0u	1.2	60m	300m	16m	10m	NAD			PH11*
41#	SFH600IV	150m*	50m	70	6.0 *	60m	2.8k	5A				4.0u	1.2	60m	300m	25m	10m	NAD			PH11*
42#	CNY18I	150m	100m	32	3.0	60m	500	5A*	100m	10m	5.0	2.0u	1.7	60m	200m	1.0m	10m	NAD			PH7dØ
43	H11A4	150m*♦	100m	30	3.0	60m	1.5k	5A*	100m	10m	10	2.0u	1.5	10m	400m	500u	10m	NAD		CB4	PH50☐
44	H11A5	150m*♦	100m	30	3.0	60m	1.0k	5A*	100m	10m	10	2.0u	2.0	10m	400m	500u	10m	NAD		CB4	PH50☐
45	H15A2	150m*♦	100m	30	3.0	60m	4.0k	58*	100m	10m	10	3.0u	1.7	10m	400m	500u	10m	NAD		CB18	PH51☐
46#	CNY18II	150m	100m	32	3.0	60m	500	5A*	160m	10m	5.0	2.0u	1.7	60m	200m	1.0m	10m	NAD			PH7dØ
47	H11A2	150m*♦	100m	30	3.0	60m	1.5k	5A*	200m	10m	10	2.0u	1.5	10m	400m	500u	10m	NAD		CB4	PH50☐
48	H11A3	150m*♦	100m	30	3.0	60m	2.5k	5A*	200m	10m	10	2.0u	1.5	10m	400m	500u	10m	NAD		CB4	PH50☐
49	H15A1	150m*♦	100m	30	3.0	60m	4.0k	58*	200m	10m	10	3.0u	1.7	10m	400m	500u	10m	NAD		CB18	PH51☐
50#	CNY18III	150m	100m	32	3.0	60m	500	5A*	250m	10m	5.0	2.0u	1.7	60m	200m	1.0m	10m	NAD			PH7dØ
51#	CNY18IV	150m	100m	32	3.0	60m	500	5A*	400m	10m	5.0	2.0u	1.7	60m	200m	1.0m	10m	NAD			PH7dØ
52	H11A1	150m*♦	100m	30	3.0	60m	2.5k	5A*	500m	10m	10	2.0u	1.5	10m	400m	500u	10m	NAD		CB4	PH50☐
53	TIL120	190m	50m	35	3.0	40m	1.0k	5C	250m	10m	5.0	3.0u#	1.3	10m	300m	2.5m	20m	NAD		♦	PH17Ø
54	TIL121	190m	50m	35	3.0	40m	1.0k	5C	500m	10m	5.0	6.0u#	1.3	10m	300m	10m	20m	NAD		♦	PH17Ø
55	OPI150	200m		25	3.0	60m	50k	48	100m	10m	5.0	2.0u#	1.6	50m	500m	1.0m	16m	NAD			PH82Ø
56	IL74	200m		20	3.0	100m	1.5kØ	5A	125m	16m	5.0	6.0u	1.3 †	100m	500m	2.0m	16m	NBC	CB4		PH31☐
57#	TLP503	200m		20 Ø	6.0 Ø	60m	2.0kØ	3A*	150m	10m	5.0	5.0u#	1.2	10m				NAD	CB4		PH16c
58#	PC503	200m		35	6.0	70m	1.5k	2A*	500m†	5.0m	5.0	2.0u#	1.4	20m	400m	1.0m	5.0m	N	CB4		PH16m☐
59#	PC504	200m		35	6.0	70m	1.5k	2A*	500m†	5.0m	5.0	2.0u#	1.4	20m	400m	1.0m	5.0m	N	CB4a		PH16m☐
60#	PC507	200m		35	6.0	70m	1.5k	2A*	500m†	20m	5.0	2.0u#	1.4	20m	400m	1.0m	20m	N	CB3a		PH116☐
61#	PC5072	200m		35	6.0	70m	1.5k	2A*	500m†	20m	5.0	2.0u#	1.4	20m	400m	1.0m	20m	N	CB16#		PH56b☐
62#	PC5073	200m		35	6.0	70m	1.5k	2A*	500m†	20m	5.0	2.0u#	1.4	20m	400m	1.0m	20m	N	CB17#		PH117☐
63	3N243	200m*	30m	30	2.0	40m	1.0k	5C*	150m	10m	10	10u#	1.3	10m	300m	1.5	20m	NAD	CB3b		TO206AFØ
64	OPI140	200m♦	30m	30	3.0	40m	1.0k	5C*	150m	10m	10	2.0u#	1.5	40m	500m	1.6m	40m	NAD			PH17d
65#	CNY22	200m*♦	30m	50	2.0	30m	2.8k	5C§	250m	8.0m	5.0	5.0u	1.6	8.0m	400m	2.0m	8.0m	NAD	CB4		PH54☐
66#	CNY42	200m*♦	30m	50	2.0	30m	2.8k	5C§	250m	8.0m	5.0	5.0u	1.6	8.0m	400m	2.0m	8.0m	NAD	CB1		PH55☐
67	3N244	200m*	30m	30	2.0	40m	1.0k	5C*	300m	10m	10	10u#	1.3	10m	300m	3.0	20m	NAD	CB3b		TO206AFØ
68#	CNY23	200m*♦	30m	30	2.0	30m	2.0k	5C§	500m	8.0m	5.0	5.0u	1.6	8.0m	400m	4.0m	8.0m	NAD	CB4		PH54☐
69#	CNY43	200m*♦	30m	30	2.0	30m	2.0k	5C§	500m	8.0m	5.0	5.0u	1.6	8.0m	400m	4.0m	8.0m	NAD	CB1		PH55☐
70	3N245	200m*	30m	30	2.0	40m	1.0k	5C*	600m	10m	10	15u#	1.3	10m	300m	6.0	20m	NAD	CB3b		TO206AFØ
71#	PC613	200m	50m	35	6.0	70m	2.0k	2A*	500m	5.0m	5.0	4.0u#	1.4	20m	200m	1.0m	20m	N	CB4		PH16n☐
72#	PC614	200m	50m	35	6.0	70m	2.0k	2A*	500m	5.0m	5.0	4.0u#	1.4	20m	200m	1.0m	20m	N	CB4a		PH16n☐
73#	PC617	200m	70m	35	6.0	70m	2.0k	2A*	500m	5.0m	5.0	4.0u#	1.4	20m	200m	1.0m	20m	N	CB3a		PH116☐
74#	PC627	200m	70m	35	6.0	70m	2.0k	2A*	500m	5.0m	5.0	4.0u#	1.4	20m	200m	1.0m	20m	N	CB16		PH56b☐
75#	PC637	200m	70m	35	6.0	70m	2.0k	2A*	500m	5.0m	5.0	4.0u#	1.4	20m	200m	1.0m	20m	N	CB17		PH117☐
76	CLA7	200m	100m	40	3.0	40m	7.0k	4A*	200m	10m	10	5.0u#	1.5	10m	500m	1.0m	10m	N	CB1		PH21aØ
77	CLI5	200m♦	200m§	50	3.0	60m	2.5k	XA§	200m	10m	10	2.5u☐	1.5	16m	400m	2.0m	50m	NAD	CB4a		PH11a☐
78	CLI2	200m♦	200m§	50	3.0	60m	2.5k	XA§	300m	10m	10	5.0u☐	1.5	16m	400m	2.0m	50m	NAD	CB4		PH11☐
79	CLI3	200m♦	200m§	50	3.0	60m	2.5k	XA§	1.0	10m	10	5.0u☐	1.5	16m	400m	2.0m	50m	NAD	CB4		PH11☐
80#	3C91B	230m	50m	50	7.0	50m	500	5C§	200m	10m	5.0	2.0u#	1.3	2.0m	400m	2.0m	50m	NAD	CB1		PH26Ø
81#	3C92B	230m	50m	50	7.0	50m	500	5C§	200m	10m	5.0	2.0u#	1.3	2.0m	400m	2.0m	50m	NAD	CB3		PH26Ø
82	4N38	250m*		80	3.0	80m	1.5kØ	5A§					1.5	10m	1.0	4.0m	20m	AD			MO001AMØ
83	4N38A	250m*		80	3.0	80m	2.5kØ	5A§					1.5	10m	1.0	4.0m	20m	AD			MO001AMØ
84	SPX74A1	250m		25	3.0	150m	3.5k	5A*										NAD	CB4		PH114aØ
85	IL12	250m		30	3.0	100m	1.0kØ	5A	20m	10m	5.0	2.0u	1.5	10m	500m	2.0m	50m	NBC			PH31☐
86	TIL112	250m		20	3.0	100m	1.5k	5F	20m	10m	5.0	2.0u#	1.5	10m	500m	2.0m	50m	NAD	♦		PH16☐
87	TIL115	250m		20	3.0	100m	2.5k	5F	20m	10m	5.0	2.0u#	1.5	10m	500m	2.0m	50m	NAD		♦	PH16☐
88	MCT26	250m*		30 Ø	3.0	60m	2.5k	5A*	60m		10	2.0u#	1.5	20m	500m	1.6m	60m	NAD	CB4		PH11☐
89	4N27	250m*		30	3.0	80m	1.5k	5A§	100m	10m	10		1.5	10m	500m	2.0m	50m	AD			MO001AMØ
90	4N28	250m*		30	3.0	80m	500	5A§	100m	10m	10		1.5	10m	500m	2.0m	50m	AD			MO001AMØ
91	SPX26	250m		30	3.0	150m	3.5kØ	5A*	100m	10m		8.0u#	1.7	50m	600m	2.0m	20m	NAD	CB4		PH58b☐
92	SPX7110	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	100m	1.0m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☐
93	SPX7270	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	100m	10m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☐
94	STOC1720	250m		30	3.0	150m	5.0k	5A*	100m	10m		2.0u#	1.7	50m	600m	2.0m	20m	NAD	CB4		PH16f☐
95	STOC2000	250m		15	3.0	150m	5.0k	5A*	100m	10m		20u#	2.0	50m	600m	2.0m	50m	NAD	CB4		PH16f☐
96	TIL118	250m		20	3.0	100m	1.5k	5F	100m	10m	5.0	2.0u#	1.5	10m	500m	2.0m	50m	NAD		♦	PH16☐
97	TIL124	250m		30	3.0	100m	5.0k	5F%	100m	10m	10	2.0u#	1.4	10m	400m	1.0m	10m	NAD	CB4		PH16☐
98	TIL111	250m		30	3.0	100m	1.5k	5F	125m	16m	400m	2.0u#	1.4	16m	400m	2.0m	16m	NAD		♦	PH16☐
99	TIL114	250m		30	3.0	100m	2.5k	5F	125m	16m	400m	2.0u#	1.4	16m	400m	2.0m	16m	NAD		♦	PH16☐
100	IL16	250m		30	3.0	60m	1.5kØ	5A	140m†	10m	10	2.0u	1.5	60m	500m	2.0m	50m	NBC			PH31☐
101	MCT4	250m*		30 Ø	3.0	40m	1.0k	5C*	150m	10m	10	2.0u#	1.5	40m	500m	2.0m	50m	NAD			PH7bØ
102	SPX314-2B	250m		10	2.0	150m	5.0k	5A*	150m	10m		4.0u#	2.0	50m	400m	400u	20m	NAD	CB3a		PH84Ø
103	SPX314-5A	250m		10	2.0	150m	5.0k	5A*	150m	10m		4.0u#	2.0	50m	400m	400u	20m	NAD	CB3a		PH84Ø
104	4N25	250m*		30	3.0	80m	2.5k	5A§	200m	10m	10		1.5	10m	500m	2.0m	50m	AD			MO001AMØ
105	4N25A	250m*		30	3.0	3.0	2.5kØ	5A§	200m	10m	10		1.5	10m	500m	2.0m	50m	AD			MO001AMØ
106	4N26	250m*		30	3.0	80m	1.5k	5A§	200m	10m	10		1.5	10m	500m	2.0m	50m	AD			MO001AMØ
107	IL1	250m		30	3.0	150m	2.5kØ	5A	200m	10m	10	2.0u	1.5	60m	400m	2.2m	15m	NBC			PH31☐
108	IL15	250m		30	3.0	60m	1.5kØ	5A	200m†	10m	10	2.0u	1.5	60m	500m	2.0m	50m	NBC			PH31☐
109	MCT2	250m		30 Ø	3.0	60m	1.5kØ	5A*	200m	10m	10	15u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH11☐
110	MCT2E	250m		30 Ø	3.0	60m	2.5kØ	5A*	200m	10m	10	15u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH11☐

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. PHOTOCOUPLER: PHOTOTRANSISTOR OUTPUT

IN ORDER OF:(1)PWR DISS.-Pcase (2) IC (3)CURR. TRANSFER RATIO & (4) TYPE No.

LINE No.	4 TYPE No.	MAXIMUM RATINGS @ 25°C: 1 PWR. DISS. Pcase (W)	2 COLL CURR. IC (A)	C/E VOLT VCEO (V)	REV. VOLT VR (V)	FWD. CURR. IF (A)	ISOL. VOLT VIO (V)	TEMP RNG. CODE	COUPLED CHARACTS. 3 CTR=IC/IF(MIN) CURR TRANSF RAT. hF	IF (A)	VCE (V)	RESP. TIME (S)	MAX INPUT DIODE CHAR. FWD.VOLT VF (V)	IF (A)	MAX.O/P TRANS. CHAR. COLL. SAT. VOLT VCE(SAT) (V)	IC (A)	IF (A)	POL	MTL	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	OPI7002	250m		30	3.0	60m	6.0k	58	200m	10m	10	3.0uΔ	1.7	10m	400m	500u	10m	NAD	♦		PH128☑
2	TIL116	250m		30	3.0	100m	2.5k	5F	200m	10m	10	2.0u#	1.5	60m	400m	2.2m	15m	NAD	♦		PH16☑
3	TIL125	250m		30	3.0	100m	5.0k	5F%	200m	10m	10	2.0u#	1.4	10m	400m	1.0m	10m	NAD	CB4		PH16☑
4	SPX2083	250m		35	2.0	50m	1.0k	5C*	250m	10m		2.0u	1.3	50m	300m	2.5m	20m	NAD	CB2		PH13Ø
5	SPX2E	250m		30	3.0	150m	5.0kØ	5A*	300m	10m		5.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH58b☑
6	SPX33	250m		30	3.0	150m	3.5kØ	5A*	300m	10m	5.0	5.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH58e☑
7	SPX7130	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	300m	1.0m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
8	SPX7530	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	300m	5.0m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
9	STOC1700	250m		30	3.0	150m	5.0k	5A*	300m	10m		2.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH16f☑
10	STOC1710	250m		30	3.0	150m	5.0k	5A*	300m	10m		2.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH16f☑
11	STOC1800	250m		15	3.0	150m	5.0k	5A*	300m	10m		2.0u#	1.7	50m	600m	2.0m	20m	NAD	CB4		PH16f☑
12	STOC1900	250m		30	3.0	150m	5.0k	5A*	300m	10m		2.0u#	1.7	50m	600m	2.0m	20m	NAD	CB4		PH16f☑
13	SPX314-1B	250m		50	6.0	150m	5.0k	5A*	400m	10m		8.0u#	1.5	50m	300m	200u	20m	NAD	CB3a		PH84Ø
14	SPX314-4A	250m		50	6.0	150m	5.0k	5A*	400m	10m		8.0u#	1.5	50m	300m	200u	20m	NAD	CB3a		PH84Ø
15	SPX7271	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	450m	10m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
16	IL5	250m		30	3.0	150m	2.5kØ	5A	500m	10m	10	2.0u	1.5	60m	400m	2.2m	15m	NBC			PH31☑
17	SPX6	250m		30	3.0	150m	5.0kØ	5A*	500m	10m		5.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH58b☑
18	SPX53	250m		30	3.0	150m	3.5kØ	5A*	500m	10m	5.0	5.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH58e☑
19	SPX7150	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	500m	1.0m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
20	SPX7550	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	500m	5.0m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
21	TIL117	250m		30	3.0	100m	2.5k	5F	500m	10m	10	2.0u#	1.4	16m	400m	500u	10m	NAD	♦		PH16☑
22	TIL126	250m		30	3.0	100m	5.0k	5F%	500m	10m	10	2.0u#	1.4	10m	400m	1.0m	10m	NAD	CB4		PH16☑
23	SPX7272	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	750m	10m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
24	SPX7590	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	900m	5.0m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
25	OPI7010	250m		30	3.0	60m	6.0k	58	1.0	10m	10	3.0uΔ	1.7	10m	500m	5.0m	10m	NAD	♦		PH128☑
26	SPX35	250m		30	3.0	150m	5.0kØ	5A*	1.0	10m		8.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH58b☑
27	SPX103	250m		30	3.0	150m	3.5kØ	5A*	1.0	10m	5.0	8.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH58e☑
28	SPX2084	250m		35	2.0	50m	1.0k	5C*	1.0	10m		4.0u	1.3	50m	400m	5.0m	10m	NAD	CB2		PH13Ø
29	STOC1500	250m		30	3.0	150m	5.0k	5A*	1.0	10m		8.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH16f☑
30	STOC1510	250m		30	3.0	150m	5.0k	5A*	1.0	10m		8.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH16f☑
31	STOC1520	250m		30	3.0	150m	5.0k	5A*	1.0	10m		8.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH16f☑
32	STOC1600	250m		30	3.0	150m	5.0k	5A*	1.0	10m		8.0u#	1.5	50m	400m	2.0m	20m	NAD	CB4		PH16f☑
33	SPX7273	250m		30 Ø	3.0 Ø	150m	4.0kØ	5A*	1.2	10m	5.0	5.0u	1.5	20m	400m	2.0m	16m	NAD	CB4		PH114a☑
34	MOC1006	250m	3.0m†	30	3.0	80m	5.0kØ	5A§	250 †	500u	5.0	2.0u#	1.5	10m	500m	2.0m	50m	NAD			PH1☑
35	MOC1005	250m	5.0m†	30	3.0	80m	5.0kØ	5A§	250 †	500u	5.0	800n#	1.5	10m	500m	2.0m	50m	NAD			PH1☑
36	FCD836	250m*	20m	20	3.0	60m	2.1kØ	5A*	60m	10m	10	1.6u#	1.5	10m	700m	2.0m	50m	NAD	CB4		PH16g☑
37	FCD836C	250m*	20m	20	3.0	60m	5.0kØ	5A*	60m	10m	10	1.6u#	1.5	10m	700m	2.0m	50m	NAD	CB4		PH16g☑
38	FCD831	250m*	20m	30	3.0	60m	2.1kØ	5A*	100m	10m	10	1.6u#	1.5	60m	500m	2.0m	50m	NAD	CB4		PH16g☑
39	FCD831C	250m*	20m	30	3.0	60m	5.0kØ	5A*	100m	10m	10	1.6u#	1.5	60m	500m	2.0m	50m	NAD	CB4		PH16g☑
40	FCD830	250m*	20m	30	3.0	60m	2.1kØ	5A*	200m	10m	400m	1.6u#	1.5	60m	400m	2.0m	10m	NAD	CB4		PH16g☑
41	FCD830C	250m*	20m	30	3.0	60m	5.0kØ	5A*	200m	10m	10	1.6u#	1.5	60m	400m	2.2m	15m	NAD	CB4		PH16g☑
42#	OPT800	250m*	25m	30	3.0 Ø	100m	2.5kØ	5A*	85m	500u	400m	3.0u	1.5	10m	400m	100u	1.0m	NAD	CB4		PH16h☑
43	FCD810	250m*	25m	20	3.0	60m	2.1kØ	5A*	100m	10m	10	4.0u#	1.5	10m	700m	2.6m	50m	NAD	CB4		PH16g☑
44	FCD810C	250m*	25m	20	3.0	60m	5.0kØ	5A*	100m	10m	10	4.0u#	1.5	10m	700m	2.6m	50m	NAD	CB4		PH16g☑
45#	OPT801	250m*	25m	30	3.0 Ø	100m	2.5kØ	5A*	100m	1.0m	400m	3.0u	1.5	10m	400m	100u	1.0m	NAD	CB4		PH16h☑
46	FCD820	250m*	25m	30	3.0	60m	2.1kØ	5A*	200m	10m	400m	2.5u#	1.5	60m	400m	2.0m	10m	NAD	CB4		PH16g☑
47	FCD820C	250m*	25m	30	3.0	60m	5.0kØ	5A*	200m	10m	10	2.5u#	1.5	60m	400m	2.2m	15m	NAD	CB4		PH16g☑
48#	OPT600	250m*	25m	30	3.0 Ø	100m	1.5kØ	5A*	200m	10m	10	3.0u	1.5	10m	500m	1.0m	10m		CB4		PH16h☑
49#	OPT602	250m*	25m	65	3.0 Ø	100m	1.5kØ	5A*	200m	10m	10	3.0u	1.5	10m	500m	1.0m	10m		CB4		PH16h☑
50#	OPT604	250m*	25m	100	3.0 Ø	100m	1.5kØ	5A*	200m	10m	10	3.0u	1.5	10m	500m	1.0m	10m		CB4		PH16h☑
51#	OPT700	250m*	25m	30	3.0 Ø	100m	2.5kØ	5A*	200m	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
52#	OPT702	250m*	25m	65	3.0 Ø	100m	2.5kØ	5A*	200m	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
53#	OPT704	250m*	25m	100	3.0 Ø	100m	2.5kØ	5A*	200m	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
54	FCD825	250m*	25m	30	3.0	60m	2.1kØ	5A*	500m	10m	10	3.5u#	1.5	60m	400m	2.0m	10m	NAD	CB4		PH16g☑
55	FCD825C	250m*	25m	30	3.0	60m	5.0kØ	5A*	500m	10m	10	3.5u#	1.5	60m	400m	2.0m	10m	NAD	CB4		PH16g☑
56#	OPT601	250m*	25m	30	3.0 Ø	100m	1.5kØ	5A*	500m	10m	10	3.0u	1.5	10m	500m	1.0m	10m		CB4		PH16h☑
57#	OPT603	250m*	25m	65	3.0 Ø	100m	1.5kØ	5A*	500m	10m	10	3.0u	1.5	10m	500m	1.0m	10m		CB4		PH16h☑
58#	OPT605	250m*	25m	100	3.0 Ø	100m	1.5kØ	5A*	500m	10m	10	3.0u	1.5	10m	500m	1.0m	10m		CB4		PH16h☑
59#	OPT701	250m*	25m	30	3.0 Ø	100m	2.5kØ	5A*	500m	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
60#	OPT703	250m*	25m	65	3.0 Ø	100m	2.5kØ	5A*	500m	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
61#	OPT705	250m*	25m	100	3.0 Ø	100m	2.5kØ	5A*	500m	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
62#	OPT606	250m*	25m	30	3.0 Ø	100m	1.5kØ	5A*	1.0	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
63#	OPT607	250m*	25m	65	3.0 Ø	100m	1.5kØ	5A*	1.0	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
64#	OPT608	250m*	25m	100	3.0 Ø	100m	1.5kØ	5A*	1.0	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
65#	OPT706	250m*	25m	30	3.0 Ø	100m	2.5kØ	5A*	1.0	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
66#	OPT707	250m*	25m	65	3.0 Ø	100m	2.5kØ	5A*	1.0	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
67#	OPT708	250m*	25m	100	3.0 Ø	100m	2.5kØ	5A*	1.0	10m	10	3.0u	1.5	10m	500m	1.0m	10m	NAD	CB4		PH16h☑
68	FCD885	250m*	30m	6.0	3.0	60m	4.0k	5A*	100m	10m	10	2.0u#	1.5	60m	300m	250u	20m	N	CB5		PH131☑
69	CNY47Δ	250m	30m	30	3.0	30m	1.7k	5A*	200m	10m	400m	2.0u#	1.5	10m	400m	2.0m	10m	NAD	CB4		PH50b☑
70	FCD880	250m*	30m	6.0	3.0	60m	4.0k	5A*	300m	10m	10	2.0u#	1.5	60m	400m	2.0m	16m	N	CB5		PH131☑
71	CNY47AΔ	250m	30m	30	3.0	30m	1.7k	5A*	400m	10m	400m	2.0u#	1.5	10m	400m	4.0m	10m	NAD	CB4		PH50b☑
72	OPI2150	250m	50m	20	3.0	60m	1.5k	5A	20m	10m	5.0	2.0u#	1.5	10m	500m	2.0m	50m	NAD	CB4		PH58c☑
73	OPI2250	250m	50m	20	3.0	60m	2.5k	5A	20m	10m	5.0	2.0u#	1.5	10m	500m	2.0m	50m	NAD	CB4		PH58c☑
74	OPI2151	250m	50m	30	3.0	60m	1.5k	5A	100m	10m	5.0	2.0u#	1.5	10m	400m	250u	10m	NAD	CB4		PH58c☑
75	OPI2251	250m	50m	30	3.0	60m	2.5k	5A	100m	10m	5.0	2.0u#	1.5	10m	400m	250u	10m	NAD	CB4		PH58c☑
76#	PS2005	250m*	50m	30	7.0	150m	2.5kØ	28*	100m	100m	5.0	5.0u#	2.0	100m	300m	4.0m	100m	NAD	CB4		PH16h☑
77	OPI2500	250m	50m	30	3.0	60m	1.5kØ	5A*	125m	16m	400m	2.0u#	1.5	10m	400m	2.0m	16m	NAD	CB12		PH58c☑
78	OPI2152	250m	50m	30	3.0	60m	1.5k	5A	200m	10m	5.0	3.0u#	1.4	16m	400m	2.0m	16m	NAD	CB4		PH58c☑
79	OPI2252	250m	50m	30	3.0	60m	2.5k	5A	200m	10m	5.0	3.0u#	1.4	16m	400m	2.0m	16m	NAD	CB4		PH58c☑
80	OPI5000	250m	50m	30	3.0	60m	5.5k	5A*	200m	10m	5.0	2.0u#	1.4	16m	400m	2.0m	16m	NAD	CB4		PH58c☑
81#	PS1001	250m*	50m	30	5.0	60m	1.0k	2A*	200m	20m	5.0	5.0u#	1.4	20m	300m	2.0m	20m	NAD	CB14		PH112Ø
82#	PS2003	250m	50m	3.0	5.0	40m	2.5k	28*	200m	20m	5.0	5.0u#	1.4	20m	300m	2.0m	20m	N	CB4		PH16p☑
83#	CNY21	250m	50m	32	5.0	50m	6.0k	2A%	250m	10m	5.0	1.6u#	1.6	50m	300m	1.0m	10m	NAD	CB1		PH3☑
84#	PS2001	250m*	50m	30	5.0	60m	2.0kØ	28*	300m	20m	5.0	5.0u#	1.4	20m	300m	2.0m	20m	NAD	CB4		PH16k☑
85	OPI2153	250m	50m	30	3.0	60m	1.5k	5A	500m	10m	5.0	3.0u#	1.4	16m	400m	4.0m	16m	NAD	CB4		PH58c☑
86	OPI2253	250m	50m	30	3.0	60m	2.5k	5A	500m	10m	5.0	3.0u#	1.4	16m	400m	4.0m	16m	NAD	CB4		PH58c☑
87#	CQY80	250m	50m	32	5.0	60m	4.0k	5A%	600m	10m	5.0	1.6u#	1.6	50m	300m	1.0m	10m	NAD	CB4		PH16d
88	CNY32	250m	100m	30	3.0	60m	3.5k	5A*	200m	10m	10	3.0uΔ	1.7	10m	400m	500u	10m	NAD	CB20		PH50b☑
89#	CNY17I	250m	100m	70	3.0	60m	4.0k	5A*	400m	10m	5.0	2.0u	1.6	60m	400m	2.5m	10m	NAD			PH16r☑
90#	CNY17II	250m	100m	70	3.0	60m	4.0k	5A*	630m	10m	5.0	2.0u	1.6	60m	400m	2.5m	10m	NAD			PH16r☑
91#	CNY17III	250m	100m	70	3.0	60m	4.0k	5A*	1.0	10m	5.0	2.0u	1.6	60m	400m	2.5m	10m	NAD			PH16r☑
92#	CNY17IV	250m	100m	70	3.0	60m	4.0k	5A*	1.6	10m	5.0	2.0u	1.6	60m	400m	2.5m	10m	NAD			PH16r☑
93	CNY17IΔ	250m	150m	70	3.0	60m	4.0k	5A*	400m	10m	5.0	5.0u	1.6	60m	300m	2.5m	10m	NAD	CB4		PH50b☑
94	CNY17IIΔ	250m	150m	70	3.0	60m	4.0k	5A*	630m	10m	5.0	5.0u	1.6	60m	300m	2.5m	10m	NAD	CB4		PH50b☑
95	CNY17IIIΔ	250m	150m	70	3.0	60m	4.0k	5A*	1.0	10m	5.0	5.0u	1.6	60m	300m	2.5m	10m	NAD	CB4		PH50b☑
96	CNY17IVΔ	250m	150m	70	3.0	60m	4.0k	5A*	1.6	10m	5.0	5.0u	1.6	60m	300m	2.5m	10m	NAD	CB4		PH50b☑
97	MOC1002	250m	3.0 †	30	3.0	80m	1.5kØ	5A§	100m	10m	10	2.0u#	1.5	50m	500m	2.0m	50m	AD			PH1☑
98	MOC1003	250m	3.0 †	30	3.0	80m	500 Ø	5A§	100m	10m	10	2.0u#	1.5	50m	500m	2.0m	50m	AD			PH1☑
99	MOC1000	250m	5.0 †	30	3.0	80m	1.5kØ	5A§	200m	10m	10	800n#	1.5	50m	500m	2.0m	50m	AD			PH1☑
100	MOC1001	250m	5.0 †	30	3.0	80m	2.5kØ	5A§	200m	10m	10	800n#	1.5	50m	500m	2.0m	50m	AD			PH1☑
101	MCT210	260m		30	6.0 Ø	40m	4.0kØ	5A*	1.5	10m	5.0	25u*	1.5	40m	400m	16m	32m	NAD	CB4		PH16jØ
102	MCT275	260m*	20m	85	3.0	60m	3.1k	5A	700m	10m	10	4.5u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH122☑
103	MCT276	260m*	30m	45	3.0	60m	3.1k	5A	150m	10m	10	2.4u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH122☑
104	MCT271	260m*	30m	45	3.0	60m	3.1k	5A	450m	10m	10	4.9u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH122☑
105	MCT274	260m*	30m	70	3.0	60m	3.1k	5A	2.2	10m	10	9.1u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH122☑
106	MCT272	260m*	40m	45	3.0	60m	3.1k	5A	750m	10m	10	6.0u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH122☑
107	MCT277	260m*	40m	45	3.0	60m	1.7k	5A	1.0	10m	10	15u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH122☑
108	MCT273	260m*	40m	70	3.0	60m	3.1k	5A	1.2	10m	10	7.6u#	1.5	20m	400m	2.0m	16m	NAD	CB4		PH122☑
109	H74A1	300m*♦	50m	15	6.0	60m	1.5k	07*				20u						NAD	CB4		PH50☑
110	4N22	300m*	50m	35	2.0	40m%	1.0k	5C*	250m	10m	5.0	15u#	1.3	10m	300m	2.5m	20m	NAD	CB2		PH13Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

26. PHOTOCOUPLER: PHOTOTRANSISTOR OUTPUT

IN ORDER OF:(1)PWR DISS.-Pcase (2) IC (3)CURR. TRANSFER RATIO & (4) TYPE No.

LINE No.	4 TYPE No.	MAXIMUM RATINGS @ 25°C: 1 PWR. DISS. Pcase (W)	2 COLL CURR. IC (A)	C/E VOLT VCEO (V)	REV. VOLT VR (V)	FWD. CURR. IF (A)	ISOL. VOLT VIO (V)	TEMP RNG. CODE - +	COUPLED CHARACTS. 3 CTR=IC/IF(MIN) CURR TRANSF RAT. hF	IF (A)	VCE (V)	RESP. TIME (S)	MAX INPUT DIODE CHAR. FWD.VOLT VF (V)	IF (A)	MAX.O/P TRANS. CHAR. COLL. SAT. VOLT VCE(SAT) (V)	IC (A)	IF (A)	POL	MTL	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	4N22A	300m*	50m	35 Ø	2.0 *	40m%	1.0k	5C*	250m	10m	5.0	15u#	1.3	10m	300m	2.5m	20m	NAD	CB2b	PH13Ø
2	OPI102	300m*	50m	35	2.0	40m	1.0k	5C*	250m	10m	5.0	3.0u#	1.3	10m	300m	2.5m	20m	NAD	CB2	PH13Ø
3	TIL102	300m♦	50m	35	2.0	40m	1.0k	5C	250m	10m	5.0	3.0u#	1.3	10m	300m	2.5m	20m	NAD	CB2	PH13Ø
4	4N23	300m*	50m	35	2.0	40m%	1.0k	5C*	600m	10m	5.0	15u#	1.3	10m	300m	5.0m	20m	NAD	CB2	PH13Ø
5	4N23A	300m*	50m	35 Ø	2.0 *	40m%	1.0k	5C*	600m	10m	5.0	15u#	1.3	10m	300m	5.0m	20m	NAD	CB2b	PH13Ø
6	4N24	300m*	50m	35	2.0	40m%	1.0k	5C*	1.0	10m	5.0	20u#	1.3	10m	300m	10m	20m	NAD	CB2	PH13Ø
7	4N24A	300m*	50m	35 Ø	2.0 *	40m%	1.0k	5C*	1.0	10m	5.0	20u#	1.3	10m	300m	10m	20m	NAD	CB2b	PH13Ø
8	4N47	300m♦	50m	35	2.0	40m	1.0k	5C*	1.0	1.0	5.0	20u#	1.5	10m	300m	1.0m	1.0m	NAD	CB13	PH13Ø
9	OPI103	300m*	50m	35	2.0	40m	1.0k	5C*	1.0	10m	5.0	3.0u#	1.3	10m	300m	10m	20m	NAD	CB2	PH13Ø
10	TIL103	300m♦	50m	35	2.0	40m	1.0k	5C	1.0	10m	5.0	6.0u#	1.3	10m	300m	2.5m	20m	NAD	CB2	PH13Ø
11	4N48	300m♦	50m	35	2.0	40m	1.0k	5C*	2.0	1.0	5.0	20u#	1.5	10m	300m	1.0m	1.0m	NAD	CB13	PH13Ø
12	4N49	300m♦	50m	35	2.0	40m	1.0k	5C*	4.0	1.0	5.0	20u#	1.5	10m	300m	1.0m	1.0m	NAD	CB13	PH13Ø
13	H11D4	300m*♦	100m	7.0	6.0	60m	1.5k	5A*	100m	10m	10	5.0u	1.5	10m	400m	500u	10m	NAD	CB4	PH50☑
14	H11D1	300m*♦	100m	7.0	6.0	60m	2.5k	5A*	200m	10m	10	5.0u	1.5	10m	400m	500u	10m	NAD	CB4	PH50☑
15	H11D2	300m*♦	100m	7.0	6.0	60m	1.5k	5A*	200m	10m	10	5.0u	1.5	10m	400m	500u	10m	NAD	CB4	PH50☑
16	H11D3	300m*♦	100m	7.0	6.0	60m	1.5k	5A*	200m	10m	10	5.0u	1.5	10m	400m	500u	10m	NAD	CB4	PH50☑
17	CLI9	300m*	200m§	30	3.0	60m	2.5k	XA§	60m	10m	10	3.0u#	1.5	16m	500m	2.0m	50m	NAD	CB4	PH11☑
18	CLI506	300m*	200m§	30	3.0	60m	2.5k	XA§	60m	10m	10	15u☑	1.5	16m	500m	2.0m	50m	NAD	CB4	PH11☑
19	CLI506B	300m*	200m§	30	3.0	60m	2.5k	XA§	60m	10m	10	15u#	1.5	16m	500m	2.0m	50m	NAD	CB4	PH11☑
20	CLI7	300m*	200m§	30	3.0	60m	2.5k	XA§	120m	16m	400m	5.0u#	1.5	16m	500m	2.0m	16m	NAD	CB4	PH11☑
21	CLI8	300m*	200m§	30	3.0	60m	2.5k	XA§	200m	10m	10	4.0u#	1.5	16m	500m	2.0m	50m	NAD	CB4	PH11☑
22	CLI25	300m*	200m	40		60m	2.5k	XA§	200m	10m	10	5.0u#	1.5	16m	400m	500u	10m	NAD	CB19	PH11☑
23	CLI26	300m*	200m	40		60m	2.5k	XA§	400m	10m	10	5.0u#	1.5	16m	400m	500u	10m	NAD	CB19	PH11☑
24	CLI6	300m*	200m§	40	3.0	60m	2.5k	XA§	500m	10m	10	5.0u#	1.5	16m	500m	2.0m	50m	NAD	CB4	PH11☑
25	CLI4	300m*	200m§	40	3.0	60m	2.5k	XA§	1.5	10m	10	5.0u#	1.5	16m	500m	2.0m	50m	NAD	CB4	PH11☑
26	JAN4N22	300m*	1.0 §	35	2.0 *	40m%	1.0k*	5C§	250m	10m	5.0	15u#	1.3	10m	300m	2.5m	20m	NAD	CB13	PH13Ø
27	JAN4N22A	300m*	1.0 §	35	2.0 *	40m%	1.0k*	5C§	250m	10m	5.0	15u#	1.3	10m	300m	2.5m	20m	NAD	CB13a	PH13Ø
28	JAN4N23	300m*	1.0 §	35	2.0 *	40m%	1.0k*	5C§	600m	10m	5.0	15u#	1.3	10m	300m	5.0m	20m	NAD	CB13	PH13Ø
29	JAN4N23A	300m*	1.0 §	35	2.0 *	40m%	1.0k*	5C§	600m	10m	5.0	15u#	1.3	10m	300m	5.0m	20m	NAD	CB13a	PH13Ø
30	JAN4N24	300m*	1.0 §	35	2.0 *	40m%	1.0k*	5C§	1.0	10m	5.0	20u#	1.3	10m	300m	10m	20m	NAD	CB13	PH13Ø
31	JAN4N24A	300m*	1.0 §	35	2.0 *	40m%	1.0k*	5C§	1.0	10m	5.0	20u#	1.3	10m	300m	10m	20m	NAD	CB13a	PH13Ø
32#	3C63B	330m	100m	30	7.0	100m	5.0k	5C§	200m	10m	5.0	5.0u#	1.4 †	100m	400m	2.0m	50m	NAD	CB1	PH25☑
33#	3C63C	330m	100m	30	7.0	100m	5.0k	5C§	400m	10m	5.0	9.0u#	1.4 †	100m	400m	2.0m	50m	NAD	CB1	PH25☑
34#	3C63	330m*♦	100m	30	7.0	100m	5.0k	5C§	5.0	10m	5.0	15u#	1.8	100m	400m	2.0m	50m	NAD	CB1	PH25☑
35	OPI120	350m	50m	25	3.0	150m	15k	5A%	200m	10m	5.0	2.0u#	1.5	30m	500m	1.0m	30m	NAD		PH86☑
36	OPI6100	400m		200	3.0	60m	1.5k	5A	100m	10m	5.0	5.0u	1.5	10m	400m	500u	10m	N	CB4	PH16☑
37	ILD74	400m		20	3.0	100m	1.5kØ	5A	125m	16m	5.0	6.0u	1.3 †	100m	500m	2.0m	16m	NBC	CB5#	PH32☑
38#	TLP504	400m		20 Ø	6.0 Ø	60m	2.0kØ	3A*	150m	10m	5.0	5.0u#	1.2	10m				NAD	CB5#	PH56a☑
39	OPI6000	400m		300	3.0	60m	1.5k	5A	200m	10m	5.0	5.0u	1.5	10m	400m	500u	10m	N	CB4	PH16☑
40	MCT66	400m*	30m	30 Ø	3.0	60m	1.5kØ	5A*	60m	10m	10	15u#	1.5	20m	400m	2.0m	40m	NAD	CB5#	PH29☑
41	ILCT6	400m	30m	7.0 Ø	3.0 Ø	60m	1.5kØ	5A	200m	10m	10	5.0u	1.5	60m	400m	2.0m	16m	NBC	CB5#	PH32☑
42	MCT6	400m	30m	30 Ø	3.0 Ø	60m	1.5kØ	5A*	200m	10m	10	15u#	1.5	20m	400m	2.0m	16m	NAD	CB5#	PH29☑
43	CNY35	400m	100m	30		60m	950	5A*	100m	10m	10		1.8	10m	400m	500u	10m	NAD	CB12	PH50b☑
44	CNY33	400m	100m	300	6.0	60m	1.5k	5A*	200m	10m	10	5.0uΔ	1.5	10m	400m	500u	10m	NAD	CB4	PH50b☑
45	H11A520	400m*	100m	30	6.0	60m	5.0kØ	5A*	200m	10m	10	10u	1.5	10m	400m	2.0m	20m	NAD	CB4	PH50b☑
46	H11A550	400m*	100m	30	6.0	60m	5.0kØ	5A*	500m	10m	10	10u	1.5	10m	400m	2.0m	20m	NAD	CB4	PH50b☑
47	CNY51	400m	100m	70	6.0	60m	5.0k	5A*	1.0	10m	10	5.0uΔ	1.6	60m	400m	2.0m	20m	NAD	CB4	PH50b☑
48	H11A5100	400m*	100m	30	6.0	60m	5.0k	5A*	1.0	10m	10	10u	1.5	10m	400m	2.0m	20m	NAD	CB4	PH50b☑
49	ILQ74	500m		20	3.0	100m	1.5kØ	5A	125m	16m	5.0	6.0u	1.3 †	100m	500m	2.0m	16m	NBC	CB6#	PH33☑
50	4N35	500m♦	60m	30	6.0		3.5k	5A*	1.0	10m	10	10u☑	1.5	10m	300m	500u	10m	NAD	CB4	MO001AM☑
51	4N36	500m♦	60m	30	6.0		2.5k	5A*	1.0	10m	10	10u☑	1.5	10m	300m	500u	10m	NAD	CB4	MO001AM☑
52	4N37	500m♦	60m	30	6.0		1.5k	5A*	1.0	10m	10	10u☑	1.5	10m	300m	500u	10m	NAD	CB4	MO001AM☑
53	H11A10	500m♦	100m	30	6.0	50m	1.5k	5A*	100m	10m	10	5.0u	1.5	10m	400m	500u	10m	NAD	CB4	PH50☑
54	H11AA2	500m♦	100m	30	6.0	60m	1.5k	5A*	100m	10m	10	5.0u	1.8	10m	400m	500u	10m	NAD	CB12	PH50☑
55	H11AA1	500m♦	100m	30	6.0	60m	1.5k	5A*	200m	10m	10	5.0u	1.5	10m	400m	500u	10m	NAD	CB12	PH50☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

27. PHOTOCOUPLER: PHOTODARLINGTON OUTPUT

IN ORDER OF:(1)PWR DISS.-Pcase (2) IC (3)CURR. TRANSFER RATIO & (4) TYPE No.

LINE No.	4 TYPE No.	MAX. RATINGS @ 25°C: 1 PWR DISS. Pcase (W)	2 COLL CURR. IC (A)	C/E VOLT VCEO (V)	REV. VOLT VR (V)	FWD. CURR. IF (A)	ISOL. VOLT VIO (V)	TEMP RNG. CODE - +	3 CTR=IC/IF (MIN) CURR hF	TRANSF RATIO IF (A)	TRANSF RATIO VCE (V)	RESP. TIME (S)	MAX. INPUT DIODE CHAR. FWD. VOLT VF (V)	MAX. INPUT DIODE CHAR. IF (A)	MAX O/P DARL CHARACTS. DARK CURR. ID (A)	MAX O/P DARL CHARACTS. VCE (V)	POLAR. & MATER.	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	STOC1400						3.0k	48*	300m	2.0m	6.0	25u#	1.5	15m	1.0u	10	AD		PH90Ø
2	STOC1401						3.0k	48*	900m	2.0m	6.0	30u#	1.5	15m	250n	10	AD		PH90Ø
3	ILCA-30			30	3.0	60m	2.5k		1.0	10m					1.0n	5.0		♦	PH31*
4	ILCA-55			55	3.0	60m	2.5k		1.0	10m					1.0n	5.0		♦	PH31*
5	STOC1402						3.0k	48*	2.7	2.0m	6.0	60u#	1.5	15m	250n	10	AD		PH90Ø
6	STOC1300						1.5k	47*	5.0	3.0m	6.0	50u#	1.7	15m	100n	10	AD		PH13Ø
7	MOC1200		30m			10m	1.5k												PH1☑
8#	5C75A		100m	60	7.0	50m	500	5C§	4.0	2.0m	5.0	17u#	1.3	2.0m	200n	5.0	NAD	CC5	PH7fØ
9#	5C75B		100m	60	7.0	50m	500	5C§	10	2.0m	5.0	17u#	1.3	2.0m	200n	5.0	NAD	CC5	PH7fØ
10	SPX2003-1	85m		10	2.0	1.0	500	67*	2.7	10m		50u#	1.3	50m	250n	10	NAD	CC3	PH38☑
11	SPX2003-2	85m		15	6.0	1.0	500	67*	2.7	10m		50u#	1.3	50m	250n	10	NAD	CC3	PH38☑
12	OPI113	100m		25	3.0	40m	10k	48	500m	16m	2.0	3.2u#	1.5	10m	100n	10	NAD		PH81Ø
13	4N45	100m♦*	60m*	7.0	5.0 Ø	40m§	3.0k*	47*	2.5	1.0m	1.0	5.0n#	1.7	1.0m	250u	5.0	NCA	CC7	PH114☑
14	MCC671	100m♦	60m		5.0	20m	3.0k	07*	3.0	1.6m	4.5 *	1.0uΔ	1.7	1.6m			NBC	CC8	PH56*
15	4N46	100m♦*	60m*	20	5.0 Ø	40m§	3.0k*	47*	3.5	500u	1.0	5.0n#	1.7	1.0m	100u	18	NCA	CC7	PH114☑
16	MCC670	100m♦	60m		5.0	20m	3.0k	07*	4.0	500u	4.5 *	10uΔ	1.7	1.6m			NBC	CC8	PH56*
17▼	TIL156	150m		30	3.0	100m	3.5k	5F%	3.0	10m	1.0	300u#	1.5	10m	100n	10	NBC	♦	PH142☑
18▼	TIL157	150m		30	3.0	100m	3.5k	5F%	3.0	10m	2.0	300u#	1.5	10m	100n	10	NBC	♦	PH142a☑
19	H11B3	150m*♦	100m	25	3.0	60m	1.5k	5A*	1.0	1.0m	5.0	125u#	1.5	50m	100n	10	NAD	CC1	PH50☑
20	H11B2	150m*♦	100m	25	3.0	60m	1.5k	5A*	2.0	1.0m	5.0	100u	1.5	10m	100n	10	NAD	CC1	PH50☑
21	H11B1	150m*♦	100m	25	3.0	60m	2.5k	5A*	5.0	1.0m	5.0	125u	1.5	10m	100n	10	NAD	CC1	PH50☑
22▼	H11G3	150m*♦	100m	55	6.0	60m	2.1k	5A	200	1.0m	5.0	5.0uΔ	1.5	10m	100n	30	NBC	CC9	PH50d☑
23	H15B2	150m*♦	150m	25	3.0	60m	4.0k	58*	2.0	5.0m	5.0	100u	1.7	10m	100n	10	NAD	CC3	PH51☑
24	H15B1	150m*♦	150m	25	3.0	60m	4.0k	58*	4.0	5.0m	5.0	125u	1.7	10m	100n	10	NAD	CC3	PH51☑
25▼	H11G1	150m*♦	150m	100	6.0	60m	3.5k	5A	500	1.0m	5.0	5.0uΔ	1.5	10m	100n	80	NBC	CC9	PH50d☑
26▼	H11G2	150m*♦	150m	80	6.0	60m	3.5k	5A	500	1.0m	5.0	5.0uΔ	1.5	10m	100n	60	NBC	CC9	PH50d☑
27#	PC505	170m		35	6.0	50m	1.5k	2A*	4.0	10m	2.0	60u#	1.4	10m	1.0u	10	N	CC3b	PH16m☑
28	OPI153	200m		25	3.0	150	50k	48	250m	20m	5.0	25u#	1.5	10m	100n	10	NAD		PH82Ø
29#	PS2002	200m*	50m	40	7.0	50m	2.5kØ	28*	1.0	5.0m	2.0	120u*	1.9	5.0m	400n	10	NAD	CC3b	PH16k☑
30	CLA7D	200m	100m	40	3.0	40m	6.0k	4A*	4.0	10m	10	150u#	1.5	10m	100n	10	N	CC3	PH21aØ
31#	PC515	225m		35		50m	1.5k	2A*	30	5.0m	2.0	650u#			1.0u	10	N	CC3b	PH16m☑
32	4N31	250m*		30	3.0	80m	1.5k	5A§	500m	10m	10 *	5.0u☑	1.5	10m	100n	10	AD	CC1	PH1☑
33	SPX314-3B	250m		10	2.0	150m	5.0k	5A*	800m	10m		32u#	2.0	50m	1.0u†	10	NAD	CC3a	PH84Ø
34	SPX314-6A	250m		10	2.0	150m	5.0k	5A*	800m	10m		32u#	2.0	50m	1.0u†	10	NAD	CC3a	PH84Ø
35	4N29	250m*		30	3.0	80m	2.5k	5A§	1.0	10m	10 *	5.0u☑	1.5	10m	100n	10	AD	CC1	PH1☑
36	4N29A	250m*		30	3.0	80m	2.5k	5A§	1.0	10m	10	5.0u☑	1.5	10m	100n	10	AD	CC1	MO001AM☑
37	4N30	250m*		30	3.0	80m	1.5k	5A§	1.0	10m	10 *	5.0u☑	1.5	10m	100n	10	AD	CC1	PH1☑
38	SPX314-7B	250m		15	6.0	150m	5.0k	5A*	1.5	10m		50u#	1.5	50m	250n†	10	NAD	CC3a	PH84Ø
39	SPX314-8A	250m		15	6.0	150m	5.0k	5A*	1.5	10m		50u#	1.5	50m	250n†	10	NAD	CC3a	PH84Ø
40	SPX2082	250m		15	2.0	50m	1.0k	5C*	1.5	10m		50u	1.3	50m	250n	10	NAD	CC4a	PH13Ø
41	FCD860D	250m		30	3.0	80m	6.0k	5A§	2.0	1.0m	1.0	80u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
42	OPI7320	250m		30	3.0	60m	6.0k	58	2.0	5.0m	5.0		1.5	10m	100n	10		♦	PH128☑
43	TIL113	250m		30	3.0	100m	1.5k	5F	3.0	10m	1.0	50u#	1.5	10m			NBC	♦	PH16☑
44	TIL119	250m		30	3.0	100m	1.5k	5F	3.0	10m	2.0	50u#	1.5	10m			NBC	♦	PH16☑
45	TIL127	250m		30	3.0	100m	5.0k	5F%	3.0	10m	1.0	50n#	1.5	10m	100n	10	NAD	CC1	PH16☑
46	TIL128	250m		30	3.0	100m	5.0k	5F%	3.0	10m	2.0	50n#	1.5	10m	100n	10	NAD	CC1	PH16☑
47	FCD865D	250m		30	3.0	80m	6.0k	5A§	4.0	500u	1.0	80u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
48	OPI7340	250m		30	3.0	60m	6.0k	58	4.0	5.0m	5.0		1.5	10m	100n	10		♦	PH128☑
49	4N32	250m*		30	3.0	80m	2.5k	5A§	5.0	10m	10 *	5.0u☑	1.5	10m	100n	10	AD	CC1	PH1☑
50	4N32A	250m*		30	3.0	80m	2.5k	5A§	5.0	10m	10	5.0u☑	1.5	10m	100n	10	AD	CC1	MO001AM☑
51	4N33	250m*		30	3.0	80m	1.5k	5A§	5.0	10m	10 *	5.0u☑	1.5	10m	100n	10	AD	CC1	PH1☑
52	MOC119	250m	45m*	30	3.0	100m	7.0k	5A§	3.0	10m	2.0	50u#	1.5	10m	100n	10	NAD	CE12	PH129
53	H11BX522	250m*	100m	25		60m	1.0k	5A*	2.0	500u	6.0	3.0u	1.1	500u	10u	12	NAD	CC1	PH50b☑
54	CNY31	250m	100m	30	3.0	60m	3.5k	58*	4.0	5.0m	5.0	125uΔ	1.7	10m	100n	10	NAD	CC3	PH51☑
55#	CNY48	250m	100m	30	3.0	60m	1.5k	5A*	6.0	10m	1.0	50u#	1.5	10m	100n	10	NAD	CC1	PH16Ø
56	MOC8030	250m	150m*	80	3.0	80m	7.0k	5A§	3.0	10m	1.5	13u#	2.0	10m	1.0m	60	NAD	CE12	PH129
57	OPI3150	250m	150m	30	3.0	60m	1.5k	5A	3.0	10m	2.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
58	OPI3151	250m	150m	30	3.0	60m	1.5k	5A	3.0	10m	1.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
59	OPI3152	250m	150m	55	3.0	60m	1.5k	5A	3.0	10m	1.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
60	OPI3250	250m	150m	30	3.0	60m	2.5k	5A	3.0	10m	2.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
61	OPI3251	250m	150m	30	3.0	60m	2.5k	5A	3.0	10m	1.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
62	OPI3252	250m	150m	55	3.0	60m	2.5k	5A	3.0	10m	1.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
63	MOC8050	250m	150m*	80	3.0	80m	7.0k	5A§	5.0	10m	1.5	13u#	2.0	10m	1.0m	60	NAD	CE12	PH129
64	OPI3153	250m	150m	30	3.0	60m	1.5k	5A	5.0	1.0m	5.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
65	OPI3253	250m	150m	30	3.0	60m	2.5k	5A	5.0	1.0m	5.0	3.0u#	1.5	10m	100n	10	NAD	CC1	PH58c☑
66#	PS2004	250m*	200m	30	5.0	50m	2.5kØ	28*	13	5.0m	2.0	100u#	1.4	20m	400n	10	NAD	CC1	PH16k☑
67	MCA231	275m*	50m	30	3.0 Ø	60m	1.5kØ	5A*	5.0	10m		80u#	1.5	10m	100n	10	NAD	CC1	PH11☑
68	MCA230	300m*		30	3.0 Ø	60m	1.5kØ	5A*	1.0	10m	5.0	35u	1.5	60m	100n	10	NAD	CC1	PH11☑
69	MCA255	300m*		55	3.0 Ø	60m	1.5kØ	5A*	1.0	10m	5.0	35u	1.5	60m	100n	10	NAD	CC1	PH11☑
70	OPI130	300m*	50m	25	2.0	40m	1.0k	5C%	2.0	10m	2.0	50u#	1.5	10m	100n	10	NAD	CC4a	PH13Ø
71	H11B255	300m*	100m	55	3.0	60m	660	5A*	1.0	10m	5.0	125u	1.5	20m	100n	10	NAD	CC1	PH50b☑
72	ILA30	300m	100m	30	3.0	60m	1.5k	5A	1.0	10m	5.0	10u	1.5	60m	1.0u	5.0	NBC		PH31☑
73	ILA55	300m	100m	55	3.0	60m	1.5k	5A	1.0	10m	5.0	10u	1.5	60m	1.0u	5.0	NBC		PH31☑
74	FCD860	300m*	100m	30	3.0	80m	2.1kØ	5A§	2.0	1.0m	1.0	80u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
75	FCD860C	300m*	100m	30	3.0	80m	5.0kØ	5A§	2.0	1.0m	1.0	80u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
76	FCD865	300m*	100m	30	3.0	80m	2.1kØ	5A§	4.0	500u	1.0	80u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
77	FCD865C	300m*	100m	30	3.0	80m	5.0kØ	5A§	4.0	500u	1.0	80u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
78	FCD850	300m*	125m	30	3.0	60m	2.1kØ	5A§	1.0	10m	5.0	15u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
79	FCD850C	300m*	125m	30	3.0	60m	5.0kØ	5A§	1.0	10m	5.0	15u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
80	FCD855	300m*	125m	55	3.0	60m	2.1kØ	5A§	1.0	10m	5.0	15u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
81	FCD855C	300m*	125m	55	3.0	60m	5.1kØ	5A§	1.0	10m	5.0	15u#	1.5	20m	100n	10	NAD	CC1	PH16g☑
82	ILCA2-30	300m	125m	30	3.0	60m	1.5k	5A	1.0	10m	5.0	10u	1.5	60m	100n	10	NBC		PH31☑
83	ILCA2-55	300m	125m	55	3.0	60m	1.5k	5A	1.0	10m	5.0	10u	1.5	60m	100n	10	NBC		PH31☑
84	SCD11B3	300m	125m	30 Ø	3.0 Ø	60m	3.7kØ	5A*	1.0	1.0m	5.0	5.0u#	1.5	50m	100u	30	NAD	CC1	PH114a☑
85	SCD255	300m	125m	55 Ø	3.0 Ø	60m	3.7k	5A*	1.0	10m	5.0	5.0u#	1.5	50m	100u	55	NAD	CC1	PH114a☑
86	SCD11B2	300m	125m	30 Ø	3.0 Ø	60m	3.7kØ	5A*	2.0	1.0m	5.0	5.0u#	1.5	50m	100u	30	NAD	CC1	PH114a☑
87	SCD11B1	300m	125m	30 Ø	3.0 Ø	60m	3.7kØ	5A*	5.0	1.0m	5.0	5.0u#	1.5	50m	100u	30	NAD	CC1	PH114a☑
88	CLI13	300m*	200m§	55	3.0	60m	2.5k	XA§	1.0	10m	10	150u#	1.5	16m			NAD	CC1	PH11☑
89	CLI14	300m*	200m§	30	3.0	60m	2.5k	XA§	1.0	10m	10	150u#	1.5	16m			NAD	CC1	PH11☑
90	CLI12	300m*	200m§	40	3.0	60m	2.5k	XA§	3.0	10m	10	150u#	1.5	16m			NAD	CC1	PH11☑
91	CLI27	300m*	200m	40		60m	2.5k	XA§	4.0	10m	10	200u#	1.5	16m			NAD	CB19	PH11☑
92	CLI11	300m*	200m§	40	3.0	60m	2.5k	XA§	5.0	1.0m	10	150u#	1.5	16m			NAD	CC1	PH11☑
93	CLI28	300m*	200m	40		60m	2.5k	XA§	6.0	10m	10	200u#	1.5	16m			NAD	CB19	PH11☑
94	CLI10	300m*	200m§	50	3.0	60m	2.5k	XA§	8.0	10m	10	150u#	1.5	16m			NAD	CC1	PH11☑
95	OPI123	350m		25	3.0	150m	15k	5A%	500m	10m	2.0	25u#	1.5	10m	100n	10	NAD		PH86☑
96	CNY48Δ	350m	100m	30	3.0	60m	1.2k	5A*	6.0	10m	1.0	125uΔ	1.3	10m	100n	10	NAD	CC1	PH50b☑

28. PHOTOCOUPLER: PHOTOTHYRISTOR OUTPUT

IN ORDER OF: (1)MAX. IT(RMS) (2)MAX.OFF-ST V (3)INPUT TRIGGER CURR. & (4) TYPE No.

LINE No.	4 TYPE No.	MAXIMUM RATINGS @ 25°C						TEMP RNG. CODE	COULPED CHARACTS.			INPUT DIODE CHARACTS.		OUTPUT THYR. CHAR.			MATER. & FEAT.	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
		1 IT (RMS) (A)	2 REP OFF-ST V.VDRM (V)	SURGE CURR. ITSM (A)	REV VOLT VR (V)	FWD. CURR. IF (A)	ISOL. VOLT VIO (V)	- +	3 MAX INPUT TRIGGER CUR IFT (A)	VAK (V)	TURN ON ton (S)	MAX FWD. V. VF (V)	IF (A)	ON-STATE VOLT (MAX) VTM (V)	ITM (A)	MAX REV I.-IDM Δ-IRM (A)	MAT		
1#	TLP505D	100m	200	1.0	5.0	50m	2.0k	3A	15m	6.0	10u	1.2	10m	1.3	100m	100u	BC	CD1	PH16c☑
2#	TLP506D	100m	200	1.0	5.0	50m	2.0k	3A	15m	6.0	10u	1.2	10m	1.3	100m	100u	BC	CD2	PH56a☑
3	MOC3011	100m	250	1.2	3.0	50m	7.5k	4A§	10m	3.0		1.5	10m	3.0	100m§	100n	BC AD	CD3	PH129
4	MOC3010	100m	250	1.2	3.0	50m	7.5k	4A§	15m	3.0		1.5	10m	3.0	100m§	100n	BC AD	CD3	PH129
5#	TLP505G	100m	400	1.0	5.0	50m	2.0k	3A	15m	6.0	10u	1.2	10m	1.3	100m	100u	BC	CD1	PH16c☑
6#	TLP506G	100m	400	1.0	5.0	50m	2.0k	3A	15m	6.0	10u	1.2	10m	1.3	100m	100u	BC	CD2	PH56a☑
7	MCS6200	150m			3.0	40m	1.5kØ	5A*	14m	100	4.0u	1.5	40m	1.3	100m	2.0u	§	CD2	PH29☑
8	MCS6201	150m			3.0	40m	2.5kØ	5A*	14m	100	4.0u	1.5	40m	1.3	100m	2.0u	§	CD2	PH29☑
9	MCS2	150m	200		3.0	40m	1.5k	5A*	14m	100	2.0u	1.5	40m	1.3	100m	2.0u	BC	CD1	PH11☑
10	MCS2400	150m	400		3.0	40m	1.5k	5A*	14m	100	4.0u	1.5	40m	1.3	100m	2.0u	BC	CD1	PH11☑
11	SCS11C1	300m	200	5.0	6.0	60m	5.0kØ	5A	11m	50		1.5	10m	1.5	140m	50u		CD1	PH50c☑
12	SCS11C3	300m	200	5.0	6.0	60m	5.0kØ	5A	14m	50		1.5	10m	1.5	140m	50u		CD1	PH50c☑
13	CNY30	300m$	200	10	6.0	60m	1.5k	5A*	20m	50	9.0u	1.5	10m	1.3	300m	50u	BC AD	CD1	PH50b☑
14	H11C1	300m	200	5.0	6.0	60m	2.5k	5A*	20m	50		1.5	10m	1.3	300m	50u	AD	CD1	PH50☑
15	H11C2	300m	200	5.0	6.0	60m	2.1k	5A*	20m	50		1.5	10m	1.3	300m	50m	AD	CD1	PH50☑
16	4N39	300m$	200	10	200	60m	660	5A*	30m	50	50m☑	1.5	10m	1.3	300m	50uΔ	AD	CD1	PH50b☑
17	H11C3	300m	200	5.0	6.0	60m	1.5k	5A*	30m	50		1.5	10m	1.3	300m	50u	AD	CD1	PH50☑
18	CNY34	300m$	400	10	6.0	60m	1.5k	5A*	20m	50	9.0u	1.5	10m	1.3	300m	150u	BC AD	CD1	PH50b☑
19	H11C4	300m	400	5.0	6.0	60m	2.5k	5A*	20m	50		1.5	10m	1.3	300m	150u	AD	CD1	PH50a☑
20	H11C5	300m	400	5.0	6.0	60m	2.1k	5A*	20m	50		1.5	10m	1.3	300m	150u	AD	CD1	PH50a☑
21	4N40	300m$	400	10	400	60m	660	5A*	30m	50	50m☑	1.5	10m	1.3	300m	150uΔ	AD	CD1	PH50b☑
22	H11C6	300m	400	5.0	6.0	60m	1.5k	5A*	30m	50		1.5	10m	1.3	300m	150u	AD	CD1	PH50a☑
23	H74C1	400m*	200	5.0	6.0	60m	1.5k	07*						1.3	250m	50u	AD	CD1	PH50a☑
24	H74C2	400m*	400	5.0	6.0	60m	1.5k	07*						1.3	250m	50u	AD	CD1	PH50a☑
25▼	AND516	1.0 %	600	10		50m	1.5k	38	10m			2.0	30m	2.0	2.0	100u	AD BC	CD4	PH136☑

29. PHOTOCOUPLER: PHOTOCIRCUIT (IC) OUTPUT

IN ORDER OF:(1)OUTPUT FUNCTION CODE
(2)PWR DISS.-Pcase (3)SUPP. VOLT &(4)TYPE No

LINE No.	[4] TYPE No.	OUTPUT [1] FUN-CT CODE	OUTPUT [1] SENS ELEM CODE	I/P EMIT-TER CODE	MAX. RATINGS @ 25°C [2] PWR. DISS. Pcase (W)	[3] SUPP. ΔVs Pk-Pk (V)	REV. VOLT VR (V)	FWD. CURR. IF (A)	ISOL. VOLT VIO (V)	TEMP RNG. CODE -	+	PROP DELAY TIME tpd (S)	MAX IN REV I @VR IR (A)	OUTPUT LOGIC LEVEL MIN. '1' V. (V)	OUTPUT LOGIC LEVEL MAX. '0' V. (V)	DESCRIPTION	SCHEM-ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	MCL601	31-10	LED	100m*	8.0	3.0	20m	2.0kØ	07*		200n	10u		.400		CE10	PH29☑
2	MCL611	31-10	LED	100m*	8.0	3.0	20m	2.0kØ	07*		200n	10u		.400		CE10	PH29☑
3#	6EX77A	31-10	LED	230m	15	3.0	50m	500	5C§		100u					CE2	PH28Ø
4#	6EX77B	31-10	LED	230m	15	7.0	50m	500	5C§		100u					CE2	PH28Ø
5	IL100	31-11	LED	100m	5.5	5.0	10m	2.5k	07*		65n		2.0	.80	CTR 10;TRI-STATE	CE14	PH32☑
6	IL101	31-11	LED	100m	5.5	5.0	10m	1.5k	07*		100n		2.0	.80	CTR 10;TRI-STATE	CE14	PH32☑
7	6N138	32-10	LED	35m		5.0	20m		07*		60u☑				CTR 300%	CE5	PH29☑
8	6N139	32-10	LED	35m		5.0	20m		07*		60u☑				CTR 400%	CE5	PH29☑
9	HCPL-2730	32-10§	LED	35m#	7.0	5.0	20m#	3.0k	48*		10u	10u		$	.40	Dual Ch CTR 300%min	CE19#	PH29☑
10	HCPL-2530	32-10§	LED	35m♦#	15	5.0	25m#	3.0k	5A*		400n	10u	15☑$	.40	Dual 2502	CE3#	PH29☑
11	HCPL-2531	32-10§	LED	35m♦#	15	5.0	25m#	3.0k	5A*		300n	10u	15☑$	.40	Dual 2502	CE3#	PH29☑
12	HP5082-4354	32-10§	LED	35m♦#	15	5.0	25m#	3.0k	5A*		400n	10u	$	.40	Dual 4350	CE3	PH29☑
13	HP5082-4355	32-10§	LED	35m♦#	15	5.0	25m#	3.0k	5A*		400n	10u	$	.40	Dual 4351	CE3	PH29☑
14	HCPL-2731	32-10§	LED	35m#	18	5.0	20m#	3.0k	48		100u	10u	$	.40	Dual Ch CTR400% min	CE19#	PH29☑
15	6N135	32-10	LED	45m		5.0	25m		5A*		1.5u☑				CTR 7%	CE6a	PH29☑
16	6N136	32-10	LED	45m		5.0	25m		5A*		1.5u☑				CTR 15%	CE6a	PH29☑
17	SCH4350	32-10	LED	45m	15	5.0	25m	3.0k	5A*		1.5u	10u	5.0†$	.40	CTR 7% min	CE6a	PH29☑
18	SCH4351	32-10	LED	45m	15	5.0	25m	3.0k	5A*		800n	10u	5.0†$	.40	CTR 19% min	CE6a	PH29☑
19	HP5082-4370	32-10§	LED	100m	7.0	5.0	20m	3.0k	07*		4.0u		$	.40	CTR300%min;1.0M Bit/s	CE5	PH29☑
20	HCPL-2502	32-10§	LED	100m♦	15	5.0	25m	3.0k	5A*		800n☑	10u	15☑$	.40	Hi Speed:1.0M Bit/s	CE6	PH29☑
21	HP5082-4350	32-10§	LED	100m♦	15	5.0	25m	3.0k	5A*		1.5u☑	10u	$	.40	Hi Speed:1.0M Bit/s	CE6	PH29☑
22	HP5082-4351	32-10§	LED	100m♦	15	5.0	25m	3.0k	5A*		800n☑	10u	$	.40	Hi Speed:1.0M Bit/s	CE6	PH29☑
23	HP5082-4352	32-10§	LED	100m♦	15	5.0	25m	3.0k	5A*		800n☑	10u	$	.40	Hi Speed:1.0M Bit/s	CE6	PH29☑
24	HP5082-4371	32-10§	LED	100m	18	5.0	20m	3.0k	07*		5.0u		$	.40	CTR400%min;1.0M Bit/s	CE5	PH29☑
25	SCH4370	32-10	LED	135m		5.0	20m	3.0k	07*		35u☑				CTR 300% min	CE5	PH29☑
26	SCH4371	32-10	LED	135m		5.0	20m	3.0k	07*		60u☑				CTR 400% min	CE5	PH29☑
27#	6D73	32-10	LED	280m		7.0	100m	5.0k	5C§		100u				Opto Relay	CE1	PH27☑
28	HCPL-2602	33-10§	LED	40m♦	7.0	.95 #	60m	3.0k	07*		45n	5.0m		$	.60	Terminated Line Rec	CE18	PH29☑
29	HCPL-2770	34-10§	LED	50m♦	20	5.0	10m#	1.5k	5A*		35u	10u	15☑$			4 Ch;CTR 200% min	CE21#	PH30☑
30	C30121	35-10	LED			2.0	50m	1.0k	48*		700n#					CTR 100m	CE20	PH46Ø
31	STOC1410	35-10	LED					3.0k	48*		1.0u#☑							PH90Ø
32	STOC1411	35-10	LED					3.0k	48*		1.0u#☑							PH90Ø
33	STOC1412	35-10	LED					3.0k	48*		1.0u#☑							PH90Ø
34	SPX0003-1	35-10	LED	50m		2.0	30m	500	6A*		800n				IL 3.0uAØ	CE9b	PH38☑
35	SPX0003-2	35-10	LED	50m		6.0	30m	500	6A*		800n				IL 8.0uAØ	CE9b	PH38☑
36	HCPL-2601	36-10§	LED	40m♦	7.0	5.0	20m	3.0k	07*		35n	10u	7.0☑$	.60	Hi Speed Gate	CE17	PH29☑
37	HP5082-4361	36-10§	LED	40m♦	7.0	5.0	20m	3.0k	07*		35n	10u	$	.60	Hi Speed Gate	CE17	PH29☑
38	HP5082-4365	36-10§	LED	40m♦#	7.0	5.0	20m#	1.5k	5C*		55n	10u	$	.60	Dual Ch Hermetic	CE4	PH30☑
39	HCPL-2630	36-10§	LED	60m♦	7.0	5.0	10m#	3.0k	07*		55n	10u	7.0☑	.60	Dual Hi Speed Gate	CE15#	PH29☑
40	HP5082-4364	36-10§	LED	60m♦	7.0	5.0	10m#	3.0k	07*		55n	10u	$	.60	Dual 4360	CE15#	PH29☑
41	6N137	36-10	LED	85m	7.0	7.0	10m		5A*		75n☑			.60		CE17	PH29☑
42	HP5082-4360	36-10	LED	85m♦	7.0	5.0	10m	3.0k	07*		45n	10u	$	.60	Hi Speed:10M Bit/s	CE17	PH29☑
43	6N134	36-10	LED	348m%		5.0	20m	1.5k	5A*		90n☑	10u	5.5†	.60	Dual	CE16	PH30a

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/ seg (V)	TEMP RNG. CODE	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN -ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	EZ19G	1	01SE	5	190m	115m	50m	5.0	5A§	2.4	10m	560n	3.0m	30m		BD	♦	PY259☑
2	EZ19R	1	01SE	2	190m	115m	50m	5.0	5A§	2.4	10m	697n	3.0m	30m		BD	♦	PY259☑
3	EZ19Y	1	01SE	4	190m	115m	50m	5.0	5A§	2.4	10m	580n	3.0m	30m		BD	♦	PY259☑
4	EZ20G	1	01SE	5	190m	115m	50m	5.0	5A§	2.4	10m	560n	3.0m	30m		BD	♦	PY259a☑
5	EZ20R	1	01SE	2	190m	115m	50m	5.0	5A§	2.4	10m	697n	3.0m	30m		BD	♦	PY259a☑
6	EZ20Y	1	01SE	4	190m	115m	50m	5.0	5A§	2.4	10m	580n	3.0m	30m		BD	♦	PY259a☑
7	HP5082-4732	1	01SH	2§				500m	58*	5.0	30m	655n	700u	12m		CA Vth 2.9Vmax	EA16	PY53Ø
8	RLC410	1	01SH	2	120m§			5.0	5A*	4.5	50m	650n	400u	3.0 ♦				PY423Ø
9	558-0101-001	1	02FH	2		100m	50m	5.0	5A*	2.0	20m	655n	800u	20m			♦	PY235Ø
10	558-0101-003	1	02FH	2		100m	50m	5.0	5A*	2.0	20m	655n	800u	20m			♦	PY235Ø
11	558-0102-001	1	02FH	2		100m		7.0	5A*	5.0	20m	655n	800u	5.0 ♦			♦	PY235Ø
12	558-0102-003	1	02FH	2		100m	5.0	20m	5A*	5.0	20m	655n	800u	5.0 ♦			♦	PY235Ø
13	559-0101-001	1	02FH	2		100m	2.0	20m	5A*	2.0	20m	655n	800uØ	20m			♦	PY235aØ
14	559-0101-003	1	02FH	2		100m	2.0	20m	5A*	2.0	20m	655n	800uØ	20m			♦	PY235aØ
15	559-0102-001	1	02FH	2		100m		3.0	5A*	5.0	20m	655n	800uØ	5.0 ♦			♦	PY235aØ
16	559-0102-003	1	02FH	2		100m		3.0	5A*	5.0	20m	655n	800uØ	5.0 ♦			♦	PY235aØ
17	HP5082-4787	1	02FH	2§		100m*	50m	4.0 Ø	5A*	2.0	20m	655n	1.0m	20m		CA Isolat Case		PY371
18	558-0201-001	1	02FH	5		112m	40m	5.0	2A*	2.8	10m	560n	1.5m	10m			♦	PY235Ø
19	558-0201-003	1	02FH	5		112m	40m	5.0	2A*	2.8	10m	560n	1.5m	10m			♦	PY235Ø
20	558-0202-001	1	02FH	5		112m		7.0	2A*	5.0	20m	560n	2.0m	5.0 ♦			♦	PY235Ø
21	558-0202-003	1	02FH	5		112m	5.0	20m	2A*	5.0	20m	560n	2.0m	5.0 ♦			♦	PY235Ø
22	558-0301-001	1	02FH	4		112m	40m	5.0	2A*	2.4	10m	580n	1.5m	10m			♦	PY235Ø
23	558-0301-003	1	02FH	4		112m	40m	5.0	2A*	2.4	10m	580n	1.5m	10m			♦	PY235Ø
24	558-0302-001	1	02FH	4		112m		7.0	2A*	5.0	20m	580n	2.0m	5.0 ♦			♦	PY235Ø
25	558-0302-003	1	02FH	4		112m	5.0	20m	2A*	5.0	20m	580n	2.0m	5.0 ♦			♦	PY235Ø
26	559-0201-001	1	02FH	5		112m	2.8	10m	2A*	2.8	10m	560n	800u	20m			♦	PY235aØ
27	559-0201-003	1	02FH	5		112m	2.8	10m	2A*	2.8	10m	560n	800u	20m			♦	PY235aØ
28	559-0202-001	1	02FH	5		112m		3.0	2A*	5.0	20m	560n	1.5m	5.0 ♦			♦	PY235aØ
29	559-0202-003	1	02FH	5		112m		3.0	2A*	5.0	20m	560n	1.5m	5.0 ♦			♦	PY235aØ
30	559-0301-001	1	02FH	4		112m	2.4	10m	2A*	2.4	10m	580n	800u	20m			♦	PY235aØ
31	559-0301-003	1	02FH	4		112m	2.4	10m	2A*	2.4	10m	580n	800u	20m			♦	PY235aØ
32	559-0302-001	1	02FH	4		112m		3.0	2A*	5.0	20m	580n	1.5m	5.0 ♦			♦	PY235aØ
33	559-0302-003	1	02FH	4		112m		3.0	2A*	5.0	20m	580n	1.5m	5.0 ♦			♦	PY235aØ
34	559-2101-001	1	02FH	2		120m	30m	5.0	5A	3.0	10m	635n	4.0m	10m			♦	PY235aØ
35	559-2101-003	1	02FH	2		120m	30m	5.0	5A	3.0	10m	635n	4.0m	10m			♦	PY235aØ
36	559-2201-001	1	02FH	5		120m	30m	5.0	5A	3.0	10m	565n	3.0m	20m			♦	PY235aØ
37	559-2201-003	1	02FH	5		120m	30m	5.0	5A	3.0	10m	565n	3.0m	20m			♦	PY235aØ
38	559-2301-001	1	02FH	4		120m	30m	5.0	5A	3.0	20m	585n	3.0m	10m			♦	PY235aØ
39	559-2301-003	1	02FH	4		120m	30m	5.0	5A	3.0	20m	585n	3.0m	10m			♦	PY235aØ
40	HP5082-4587	1	02FH	4§		120m*	35m	5.0 Ø	5A*	3.0	20m	583n	2.5m	20m		CA Isolat Case		PY371
41	HP5082-4687	1	02FH	2§		120m*	35m	5.0 Ø	5A*	3.0	20m	635n	2.5m	20m		CA Isolat Case		PY371
42	HP5082-4987	1	02FH	5§		120m*	35m	5.0 Ø	5A*	3.0	25m	565n	1.6m	25m		BD Isolat Case	♦	PY371
43	559-0103-001	1	02FH	2		180m§	20m	7.0	57	12	15m	665n	800uØ	15m			♦	PY235aØ
44	559-0103-003	1	02FH	2		180m§	20m	7.0	57	12	15m	665n	800uØ	15m			♦	PY235aØ
45	249-7867-3331-504	1	02FH	2☑	281m§	64m§			47	3.6	18m†						♦	PY234Ø
46	249-7967-3332-504	1	02FH	5☑	281m§	64m§			47	3.6	18m†						♦	PY234Ø
47	249-8067-3333-504	1	02FH	4☑	281m§	64m§			47	3.6	18m†						♦	PY234Ø
48	249-8167-3331-504	1	02FH	2☑	281m§	64m§			47	3.6	18m†						♦	PY234Ø
49	249-8267-3332-504	1	02FH	5☑	281m§	64m§			47	3.6	18m†						♦	PY234Ø
50	249-8367-3333-504	1	02FH	4☑	281m§	64m§			47	3.6	18m†						♦	PY234Ø
51	507-4756-3331-500	1	02FH	2☑	281m§	64m§			47	3.6	18m†						♦	PY233Ø
52	507-4856-3332-500	1	02FH	5☑	281m§	64m§			47	3.6	18m†						♦	PY233Ø
53	507-4956-3333-500	1	02FH	3☑	281m§	64m§			47	3.6	18m†						♦	PY233Ø
54	249-7868-3331-504	1	02FH	2☑	281m§	90m§			47	5.0	18m†						♦	PY234Ø
55	249-7968-3332-504	1	02FH	5☑	281m§	90m§			47	5.0	18m†						♦	PY234Ø
56	249-8068-3333-504	1	02FH	4☑	281m§	90m§			47	5.0	18m†						♦	PY234Ø
57	249-8168-3331-504	1	02FH	2☑	281m§	90m§			47	5.0	18m†						♦	PY234Ø
58	249-8268-3332-504	1	02FH	5☑	281m§	90m§			47	5.0	18m†						♦	PY234Ø
59	249-8368-3333-504	1	02FH	4☑	281m§	90m§			47	5.0	18m†						♦	PY234Ø
60	507-4757-3331-500	1	02FH	2☑	281m§	90m§			47	5.0	18m†						♦	PY233Ø
61	507-4857-3332-500	1	02FH	5☑	281m§	90m§			47	5.0	18m†						♦	PY233Ø
62	507-4957-3333-500	1	02FH	3☑	281m§	90m§			47	5.0	18m†						♦	PY233Ø
63	249-7869-3331-504	1	02FH	2☑	281m§	108m§			47	6.0	18m†						♦	PY234Ø
64	249-7969-3332-504	1	02FH	5☑	281m§	108m§			47	6.0	18m†						♦	PY234Ø
65	249-8069-3333-504	1	02FH	4☑	281m§	108m§			47	6.0	18m†						♦	PY234Ø
66	249-8169-3331-504	1	02FH	2☑	281m§	108m§			47	6.0	18m†						♦	PY234Ø
67	249-8269-3332-504	1	02FH	5☑	281m§	108m§			47	6.0	18m†						♦	PY234Ø
68	249-8369-3333-504	1	02FH	4☑	281m§	108m§			47	6.0	18m†						♦	PY234Ø
69	507-4758-3331-500	1	02FH	2☑	281m§	108m§			47	6.0	18m†						♦	PY233Ø
70	507-4858-3332-500	1	02FH	5☑	281m§	108m§			47	6.0	18m†						♦	PY233Ø
71	507-4958-3333-500	1	02FH	3☑	281m§	108m§			47	6.0	18m†						♦	PY233Ø
72	249-7870-3331-504	1	02FH	2☑	281m§	180m§			47	10	18m†						♦	PY234Ø
73	249-7970-3332-504	1	02FH	5☑	281m§	180m§			47	10	18m†						♦	PY234Ø
74	249-8070-3333-504	1	02FH	4☑	281m§	180m§			47	10	18m†						♦	PY234Ø
75	249-8170-3331-504	1	02FH	2☑	281m§	180m§			47	10	18m†						♦	PY234Ø
76	249-8270-3332-504	1	02FH	5☑	281m§	180m§			47	10	18m†						♦	PY234Ø
77	249-8370-3333-504	1	02FH	4☑	281m§	180m§			47	10	18m†						♦	PY234Ø

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/seg (V)	TEMP RNG. CODE - +	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN-ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM-ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	507-4759-3331-500	1	02FH	2☑	281m§	180m§			47	10	18mt						♦	PY233Ø
2	507-4859-3332-500	1	02FH	5☑	281m§	180m§			47	10	18mt						♦	PY233Ø
3	507-4959-3333-500	1	02FH	3☑	281m§	180m§			47	10	18mt						♦	PY233Ø
4	249-7871-3331-504	1	02FH	2☑	281m§	252m§			47	14	18mt						♦	PY234Ø
5	249-7971-3332-504	1	02FH	5☑	281m§	252m§			47	14	18mt						♦	PY234Ø
6	249-8071-3333-504	1	02FH	4☑	281m§	252m§			47	14	18mt						♦	PY234Ø
7	249-8171-3331-504	1	02FH	2☑	281m§	252m§			47	14	18mt						♦	PY234Ø
8	249-8271-3332-504	1	02FH	5☑	281m§	252m§			47	14	18mt						♦	PY234Ø
9	249-8371-3333-504	1	02FH	4☑	281m§	252m§			47	14	18mt						♦	PY234Ø
10	507-4760-3331-500	1	02FH	2☑	281m§	252m§			47	14	18mt						♦	PY233Ø
11	507-4860-3332-500	1	02FH	5☑	281m§	252m§			47	14	18mt						♦	PY233Ø
12	507-4960-3333-500	1	02FH	3☑	281m§	252m§			47	14	18mt						♦	PY233Ø
13	249-7872-3331-504	1	02FH	2☑	281m§	504m§			47	28	18mt						♦	PY234Ø
14	249-7972-3332-504	1	02FH	5☑	281m§	504m§			47	28	18mt						♦	PY234Ø
15	249-8072-3333-504	1	02FH	4☑	281m§	504m§			47	28	18mt						♦	PY234Ø
16	249-8172-3331-504	1	02FH	2☑	281m§	504m§			47	28	18mt						♦	PY234Ø
17	249-8272-3332-504	1	02FH	5☑	281m§	504m§			47	28	18mt						♦	PY234Ø
18	249-8372-3333-504	1	02FH	4☑	281m§	504m§			47	28	18mt						♦	PY234Ø
19	507-4761-3331-500	1	02FH	2☑	281m§	504m§			47	28	18mt						♦	PY233Ø
20	507-4861-3332-500	1	02FH	5☑	281m§	504m§			47	28	18mt						♦	PY233Ø
21	507-4961-3333-500	1	02FH	3☑	281m§	504m§			47	28	18mt						♦	PY233Ø
22#	TLG314	1	03NR	5	296m	250m*	25mΔ	3.0	27*	2.8	20m	560n	110u	10m		BD	EA40a	PY102b☑
23#	TLG315	1	03NR	5	296m	250m*	25mΔ	3.0	27*	2.8	20m	560n	110u	10m		BD	EA40	PY102b☑
24	HDSP-3536	1	03PV	2	290m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA110	PY60d☑
25	HDSP-4036	1	03PV	4	290m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	2.7mΔ	100m§		CA	EA110	PY60d☑
26	HDSP-3736	1	03PV	2	408m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA147	PY54b☑
27	HDSP-4136	1	03PV	4	408m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	2.7mΔ	100m§		CA	EA147	PY54b☑
28	HDSP-3406	1	03PV	2	743m	100m%	50mΔ	6.0 Δ	28*	2.0	20mΔ	655n	900uΔ	20m		CA	EA146	PY473b☑
29	730-6005	1	04P	2	370m	400m	30mΔ	3.0	27*	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA41a	PY372☑
30#	TLR307	1	04P	2	370m	400m*	35mΔ	3.0	27*	2.8	30m	700n	300u	10m		BD V;SS	EA41a	PY104☑
31#	TLR309	1	04P	2	370m	400m*	35mΔ	3.0	27*	2.8	30m	700n	300u	10m		BD V;SS	EA41	PY104☑
32	730-6010	1	04P	2	600m	104m§	30mΔ	3.0 Δ	07	2.0 †	13m					BD	EA198	PY560☑
33	MAN3630A	1	04PV	3	294m	250m	100m	3.0 Δ	48	2.5	20m	630n	510u	10m			EA175b	PY81b☑
34#	CQY81B	1	05N	2	280m	400m*	30mΔ	3.0		2.0	20m	650n	200u	20m		CA		
35#	AL113K	1	07N	2	51m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	600	CE		PY438☑
36#	AL113L	1	07N	2	51m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	350	CE		PY438☑
37#	AL113M	1	07N	2	51m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	120	CE		PY438☑
38#	AL113N	1	07N	2	51m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	600	CE		PY438☑
39#	AL113R	1	07N	2	51m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	350	CE		PY438☑
40#	AL113S	1	07N	2	51m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	120	CE		PY438☑
41#	AL113A	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	600	CE		PY438☑
42#	AL113B	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	350	CE		PY438☑
43#	AL113D	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	120	CE		PY438☑
44#	AL113E	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	600	CE		PY438☑
45#	AL113G	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	350	CE		PY438☑
46#	AL113I	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	120	CE		PY438☑
47#	AL113SZ	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	350	CE		PY438☑
48#	AL113V	1	07N	2	78m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0m	120	CE		PY438☑
49#	ALS313A5	1	07N	2	101m					1.6	5.0m	660n						PY439☑
50#	KL105A	1	07N	3	197m		12m		68*	6.0	10m			70m	15 Ø	BI		PY311
51#	KL105B	1	07N	4	197m		12m		68*	3.5	10m			80m	40 Ø	BI		PY311
52#	KL105V	1	07N	4	197m		12m		68*	6.0	10m			80m	40 Ø	BI		PY311
53	TIL506	1	07N	2	300m			7.0 ♦	5A*	5.5	800u♦	655n	700u	5.0 ♦		. w/Decoder	EA12	PY38☑
54#	GL8P03	1	07N	2	300m	200m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	60u	5.0m		BD	EA111	PY410☑
55#	GL9P03	1	07N	2	300m	200m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	60u	5.0m		BD	EA105	PY415☑
56#	GL8G03	1	07N	5	300m	300m	15mΔ	5.0 Δ	37*	2.5	10m	555n	30u	10m		BD	EA111	PY410☑
57#	GL9G03	1	07N	5	300m	300m	15mΔ	5.0 Δ	37*	2.5	10m	555n	30u	10m		BD	EA105	PY415☑
58#	GL8R03	1	07N	2	300m	400m	25mΔ	5.0 Δ	37*	2.0	20m	655n	60u	20m		CA	EA111	PY410☑
59#	GL9R03	1	07N	2	300m	400m	25mΔ	5.0 Δ	37*	2.0	20m	655n	60u	20m		CA	EA105	PY415☑
60#	GL8P04	1	07N	2	400m	200m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	60u	5.0m		BD	EA116	PY377☑
61#	GL9P04	1	07N	2	400m	200m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	60u	5.0m		BD	EA105	PY377☑
62#	GL8G04	1	07N	5	400m	300m	15mΔ	5.0 Δ	37*	2.5	10m	555n	30u	10m		BD	EA116	PY377☑
63#	GL9G04	1	07N	5	400m	300m	15mΔ	5.0 Δ	37*	2.5	10m	555n	30u	10m		BD	EA105	PY377☑
64	1737R	1	07NB	2	300m		25mΔ	3.0	28	2.0	20m	655n	250uΔ	20m		CA	EA129	PY29j☑
65▼#	LT302	1	07NB	2	300m		25m	3.0 Δ	28	2.0	20m	655n	500u	20m		CA	EA8	PY29f☑
66	SPX302	1	07NB	2	300m		150mΔ	3.0 Δ	28	2.0	20m	655n	500u	20m		CA	EA8	PY29f
67	TIL312	1	07NB	2	300m		25mΔ	3.0 Δ	28*	2.0	20mΔ	655n	500u	20mΔ			EA8	PY29c☑
68▼	LRT1737R	1	07NB	2	300m	340m	25mΔ	3.0 Δ	28	2.0	20m	655n	800u	20m		CA Common A	EA129	PY29j☑
69▼	LRT1737E	1	07NB	3	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	635n	4.0m	20m		EB Common A		PY29j☑
70▼	LRT1737G	1	07NB	5	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	565n	2.5m	20m		BD Common A		PY29j☑
71▼	LRT1737Y	1	07NB	4	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	585n	3.0m	20m		EB Common A		PY29j☑
72	EP21G	1	07NB	5	305m	400m	25m	5.0	2A	2.4	10m	560n	250u	10m		BD	EA24b	PY15☑
73	EP21R	1	07NB	2	305m	400m	25m	5.0	2A	2.4	10m	697n	250u	10m		BD	EA24b	PY15☑
74	EP21Y	1	07NB	4	305m	400m	25m	5.0	2A	2.4	10m	580n	250u	10m		BD	EA24b	PY15☑
75#	CQY82	1	07NB	2	433m	520m	30mΔ	3.0	48%	2.0	20m	650n	200u	20m		CA		PY434☑
76#	CQY82A	1	07NB	2	433m	520m	30mΔ	3.0	48%	2.0	20m	650n	200u	20m		CA		PY434☑
77▼#	CQX86A,K	1*	07NBPV	2	511m	750m	25m#	5.0	28%	2.0	20m	660n	700uΔ	20m		CA W/± Sign	EA220	PY613
78▼#	CQX88A,K	1*	07NBPV	3	511m	750m	25m#	5.0	28%	3.0	20m	630n	1.5uΔ	20m		EB W/± Sign	EA220	PY613
79▼#	CQX90A,K	1*	07NBPV	5	511m	750m	25m#	5.0	28%	3.2	20m	560n	700uΔ	20m		BD W/± Sign	EA220	PY613
80▼#	CQX92A,K	1*	07NBPV	4	511m	750m	25m#	5.0	28%	3.2	20m	590n	1.0uΔ	20m		CA W/± Sign	EA220	PY613
81	SLA1C	1	07NK	2		750m	40m	5.5		2.1 †	15m		1.0m	15m			EA69	PY☑
82	NSLA1C	1	07NK	2	334m	750m	40m	5.5		2.1	15m		1.0m	15m			EA173	PY511☑
83	SLA7Δ	1	07NL	2		750m	40m	3.0		2.2	20m		300u	20m			EA69	PY☑
84	SLA1	1	07NL	2		780m	40m	5.5		2.1 †	15m		1.0m	15m			EA69	PY☑
85	4N41	1	07NL	2	270m		30mΔ	6.0 Δ	5A*	3.8	20mΔ	660n	200uΔ	20m			EA19	PY44☑
86	1701R	1	07NL	2	270m		240m	6.0 Δ	07*	3.8	20m	660n	275u	20m			♦	PY25☑
87	MAN1A	1	07NL	2	270m		20m			4.0	20m	660n		20m	100 *Δ			PY67☑
88	MAN10A	1	07NL	2	270m		10m			4.0	10m	660n		10m	100 *Δ			PY67☑
89	TIL302	1	07NL	2	270m		200mΔ	6.0 Δ	07*	3.8	20m	660n	275u	20m			♦	PY25☑

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/seg (V)	TEMP RNG. CODE	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN -ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	TIL306	1	07NL	2	270m			5.2 ♦	08*	5.2	800u♦	660n	1.2m	5.0 ♦		w/Counter	EA5	PY27☑
2	TIL308	1	07NL	2	270m			5.2 ♦	08*	5.2	800u♦		660n	1.2m	5.0 ♦		w/Latch,Dec	EA6	PY27☑
3	1706R	1	07NL	2	270m	575m†		5.2 ♦	08*	5.2	800u♦	660n	1.2m	5.0 ♦		W/Latch;Dec	EA6	PY27☑
4	1705R	1	07NL	2	270m	600m†		5.2 ♦	08*	5.2	800u♦	660n	1.2m	5.0 ♦		W/Counter	EA5	PY27☑
5	DL10A	1	07NL	2*	270m	650m	200m	6.0 Δ	2A	4.0	20m	700n		10m	500 *	CA	EA19	PY67☑
6	745-0008	1	07NL	2*	270m	750m†	230m	5.2 ♦	07*			650n	1.2m	5.0 ♦	350 *	w/Logic	EA6	PY52
7	DL10	1	07NL	2*	270m	750m	240m	6.0 Δ	2A	4.0	20m	700n		20m	350 *		EA19	PY67☑
8	745-0009	1	07NL	2*	270m	825m†	250m	5.2 ♦	07*			650n	1.2m	5.0 ♦	350 *	w/Logic	EA5	PY52
9▼	LRK1706R	1	07NL	2	270m	900m*		5.2 ♦	08			660n	1.2m	5.0 ♦		W/Latch;DEC	EA6	PY27☑
10▼	LRK1705R	1	07NL	2	270m	1.0 *		5.2 ♦	08			660n	1.2m	5.0 ♦		W/Logic	EA5	PY27☑
11♦	5082-7730	1	07NL	2	300m		150mΔ	6.0 Δ	48	2.0	20m	655n	350u	20m		Common A	EA228	PY635☑
12	745-0017	1	07NL	2	300m	40m§	25mΔ	6.0 Δ	28*	2.0	20m	655n	500u	20m		CA	EA54	PY568a☑
13	749-1801	1	07NL	2	300m	40m§	25mΔ	6.0 Δ	28*	2.0	20m	655n	500u	20m		CA	EA54	PY570☑
14	HDSP-3530	1	07NL	2	300m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA100	PY60b☑
15	HDSP-4030	1	07NL	4	300m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	2.7mΔ	100m§		CA	EA109	PY60b☑
16▼	7730R	1	07NL	2	300m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	200u	100m		Common A	EA100	PY60b
17	HP5082-7730	1	07NL	2	300m	336m*	25mΔ	6.0 Δ	28*	2.0	20mΔ	655n	350uΔ	20m		CA	EA100	PY60b☑
18▼	7610R	1	07NL	2	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	635n	250u	5.0m		Common A	EA100	PY60b
19▼	7620Y	1	07NL	4	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	583n	200u	5.0m		Common A	EA100	PY60b
20▼	7630G	1	07NL	5	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	565n	300u	10m		Common A	EA100	PY60b
21	XAN3062	1	07NL	2	300m	350m*	25mΔ	5.0 Δ	28	2.2	20m	655n	450uΔ	20m		CA	EA54	PY457☑
22▼	1352G	1	07NL	5	300m	400m*	20mΔ	3.0 Δ	48	3.5	20m	565n	250u	10m		Common A	EA175a	PY64e☑
23▼	1362E	1	07NL	3	300m	400m*	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA175a	PY64e☑
24▼	1382Y	1	07NL	4	300m	400m*	20mΔ	3.0 Δ	48	3.5	20m	585n	600u	10m		Common A	EA175a	PY64e☑
25#	CQY81	1	07NL	2	300m	400m	30mΔ	3.0	28%	2.0	20m	650n	100u	20m		CA	EA72	PY304☑
26	HP5082-7610	1	07NL	2	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	635n	250uΔ	5.0m		CA	EA100	PY60b☑
27	HP5082-7620	1	07NL	4	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	583n	200uΔ	5.0m		CA	EA100	PY60b☑
28	HP5082-7630	1	07NL	5	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	565n	300uΔ	10m		BD	EA100	PY60b☑
29	MAN52A	1	07NL	5	300m	400m*	160m	3.0 Δ	48	3.5	20m	565n	125uΔ	10m			EA175a	PY81☑
30	MAN82A	1	07NL	4	300m	400m*	160m	3.0 Δ	48	3.5	20m	585n	320uΔ	10m			EA175a	PY81☑
31	MAN3620A	1	07NL	3	300m	400m	160m	3.0 Δ	48	2.5	20m	630n	510u	10m			EA175a	PY81☑
32	XAN3052	1	07NL	5	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	565n	500uΔ	10m		BD	EA54	PY457☑
33	XAN3072	1	07NL	2	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500u	10m		BD	EA54	PY457☑
34	XAN3082	1	07NL	4	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	585n	300u	10m		BD	EA54	PY457☑
35	DL307	1	07NL	2	300m	480m	30mΔ	3.0 Δ	28	2.0	20m	660n	1.4m	10m			EA54	PY540☑
36	DL702	1	07NL	2	300m	500m	240m	3.0 Δ	28	2.0	20m	700n	1.4m	20m			EA24b	PY64☑
37	DL707	1	07NL	2	300m	500m	240m	3.0 Δ	28	4.0	20m	700n	1.4m	20m			EA24	PY64☑
38▼	DLG307	1	07NL	5	300m	600m	25mΔ	3.0	28	3.0	20m	565n	2.5m	10m			EA54	PY540
39▼	DLQ307	1	07NL	3	300m	600m	25mΔ	3.0	28	2.5	20m	630n	3.0m	10m			EA54	PY540
40▼	DLY307	1	07NL	4	300m	600m	25mΔ	3.0	28	3.0	20m	585n	2.5m	10m			EA54	PY540
41▼	1372R	1	07NL	2	300m	700m*	30mΔ	5.0 Δ	48	2.0	20m	660n	300u	10m		Common A	EA175a	PY64e☑
42	MAN72A	1	07NL	2	300m	700m*	240m	5.0	48	2.0	20m	660n	125uΔ	10m			EA175a	PY81☑
43	740-3012	1	07NL	2	300m	875m§	15mΔ		07	5.0 ♦						CA Dec Dvr,Lat	♦	PY569d☑
44	740-3014	1	07NL	2	300m	875m§	15mΔ		07	5.0 ♦						CA Dvr,Lat,Cnt	♦	PY569e☑
45	749-1601	1	07NL	2	300m	875m§	15mΔ		07	5.0 ♦	175m					CA Dec Dvr Lat	♦	PY569a☑
46	749-1701	1	07NL	2	300m	875m§	15mΔ		07	5.0 ♦	175m					CA Dvr,Lat,Cnt	♦	PY569b☑
47	740-3006	1	07NL	2	300m	1.0 §	15mΔ		07	5.0 ♦						CA W/Dec Dvr	♦	PY569c☑
48	749-1501	1	07NL	2	300m	1.0 §	15mΔ		07	5.0 ♦	210m					CA W/Dec Dvr	♦	PY569☑
49	NSLA1	1	07NL	2	334m	750m	40m	5.5		2.1	15m		1.0m	15m			EA172	PY510☑
50	HDSP-3730	1	07NL	2	430m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA109	PY54a☑
51	HDSP-4130	1	07NL	4	430m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	2.7mΔ	100m§		CA	EA100	PY54a☑
52▼	7750R	1	07NL	2	430m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m		Common A	EA100	PY170
53	DL7750	1	07NL	2	430m	336m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m§			EA193	PY553☑
54	HP5082-7750	1	07NL	2	430m	336m*	25mΔ	6.0 Δ	28*	2.0	20mΔ	655n	400uΔ	20m		CA	EA100	PY54d☑
55▼	7650R	1	07NL	2	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	635n	300u	5.0m		Common A	EA100	PY170
56▼	7660Y	1	07NL	4	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	583n	250u	5.0m		Common A	EA100	PY170
57▼	7670G	1	07NL	5	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	565n	250u	10m		Common A	EA100	PY170
58	DLQ7650	1	07NL	2	430m	400m	20mΔ	6.0 Δ	28	2.5	20m	635n	1.7m	20m			EA193	PY553☑
59	DLY7660	1	07NL	4	430m	400m	20mΔ	6.0 Δ	28	3.0	20m	583n	1.5m	20m			EA193	PY553☑
60	HP5082-7650	1	07NL	2	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	635n	300uΔ	5.0m		CA	EA100	PY54a☑
61	HP5082-7660	1	07NL	4	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	583n	250uΔ	5.0m		CA	EA100	PY54a☑
62	HP5082-7670	1	07NL	5	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	565n	250uΔ	10m		BD	EA100	PY54a☑
63	XAN6520	1	07NL	5	600m	400m*	20mΔ	5.0 Δ	38*	2.8	10m	565n	1.5mΔ	20m		BD	EA54c	PY459☑
64	XAN6540	1	07NL	5	600m	400m*	20mΔ	5.0 Δ	38*	2.8	10m	565n	1.5mΔ	20m		BD	EA54d	PY459☑
65	XAN6620	1	07NL	2	600m	400m*	25mΔ	5.0 Δ	28	2.2	20m	655n	550uΔ	20m		CA	EA54c	PY459☑
66	XAN6640	1	07NL	2	600m	400m*	25mΔ	5.0 Δ	28	2.2	20m	655n	550uΔ	20m		CA	EA54d	PY459☑
67	XAN6820	1	07NL	4	600m	400m*	20mΔ	5.0 Δ	38*	2.8	10m	585n	700uΔ	10m		CA	EA54c	PY459☑
68	XAN6840	1	07NL	4	600m	400m*	20mΔ	5.0 Δ	38*	2.8	10m	585n	700uΔ	10m		CA	EA54d	PY459☑
69	XAN6920	1	07NL	2	600m	400m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500uΔ	10m		BD	EA54c	PY459☑
70	XAN6940	1	07NL	2	600m	400m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500uΔ	10m		BD	EA54d	PY459☑
71	DL747	1	07NL	2	630m					3.4	20m		5.0m	20m			EA22	PY65☑
72	DL750	1	07NL	2	630m					3.4	20m		5.0m	20m			EA22a	PY65☑
73▼	1804R	1	07NL	2	630m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA210	PY599
74▼	1805R	1	07NL	2	630m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA210a	PY599
75▼	1808R	1	07NL	2	630m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA213	PY599
76▼	1809R	1	07NL	2	630m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA76b	PY599
77▼#	LT1804	1	07NL	2	630m	430m*	125m	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA76b	PY599
78▼#	LT1805	1	07NL	2	630m	430m*	125m	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA76c	PY599
79▼	1800R	1	07NL	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common A	EA76b	PY599
80▼	1801R	1	07NL	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common K	EA76c	PY599
81▼	1812R	1	07NL	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common A	EA213	PY599
82▼	1813R	1	07NL	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common K	EA76b	PY599
83▼#	LT1800	1	07NL	2	630m	715m*	200m	6.0 Δ	27	3.8	20m	655n	900u	20m		Common A	EA76b	PY599
84▼#	LT1801	1	07NL	2	630m	715m*	200m	6.0 Δ	27	3.8	20m	655n	900u	20m		Common K	EA76c	PY599
85	EP62G	1	07NL	5	635m	400m	25mΔ	5.0 Δ	5Aŝ	2.8	10m	560n	2.0mΔ	20m		BD	EA22b	PY258☑
86	EP62R	1	07NL	2	635m	400m	25mΔ	5.0 Δ	5Aŝ	2.8	10m	697n	1.3mΔ	20m		BD	EA22b	PY258☑
87	EP62Y	1	07NL	4	635m	400m	25mΔ	5.0 Δ	5Aŝ	2.8	10m	580n	700uΔ	20m		BD	EA22b	PY258☑
88	EP64G	1	07NL	5	635m	400m	25mΔ	5.0 Δ	5Aŝ	2.8	10m	560n	2.0mΔ	20m		BD	EA22c	PY258☑
89	EP64R	1	07NL	2	635m	400m	25mΔ	5.0 Δ	5Aŝ	2.8	10m	697n	1.3mΔ	20m		BD	EA22c	PY258☑
90	EP64Y	1	07NL	4	635m	400m	25mΔ	5.0 Δ	5Aŝ	2.8	10m	580n	700uΔ	20m		BD	EA22c	PY258☑
91	HDSP-3400	1	07NL	2	800m	100m%	50mΔ	6.0 Δ	28*	2.0	20mΔ	655n	900uΔ	20m		CA	EA142	PY473☑
92	HDSP-3405	1	07NL	2	800m	100m%	50mΔ	6.0 Δ	28*	2.0	20mΔ	655n	900uΔ	20m		CA	EA145	PY473☑
93	DL847	1	07NL	2	800m	450m*	30mΔ	3.0 Δ	58	2.0	20m	660n	2.8m	20m			EA22	PY545a☑
94	DL850	1	07NL	2	800m	450m*	30mΔ	3.0 Δ	58	2.0	20m	660n	2.8m	20m			EA22a	PY545☑
95	XDN1500G	1	07NL	5	1.5			16 ♦	07				4.5mΔ	10mΔ		BD	EA170	PD23☑
96	XDN1500GDD	1	07NL	5	1.5			16 ♦	07				4.5mΔ			Dec Drvr	EA170a	PD23☑
97	XDN1500R	1	07NL	2	1.5			16 ♦	07				4.5mΔ				EA170	PD23☑
98	XDN1500RDD	1	07NL	2	1.5			16 ♦	07				4.5mΔ			Dec Drvr	EA170a	PD23☑
99#	CQY82B	1	07NP	2	401m	400m	30mΔ	3.0	48%	2.0	20m	650n	200u	20m		CA		PY435☑
100	730-6006	1	07NPR	2	600m	450m	30mΔ	3.0	27*	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA117	PY104b☑
101▼	1781R	1*	07NPRV	2	500m	400m	200m	3.0 Δ	48	1.7	20m	655n	600u	20m		Common A	EA212	PY597☑
102▼	1782R	1*	07NPRV	2	500m	400m	200m	3.0 Δ	48	1.7	20m	655n	600u	20m		Common K	EA212a	PY597☑
103▼#	LT514	1*	07NPRV	2	500m	400m*	25m	3.0 Δ	48	1.7 †	20m	655n	600u	20m		CA Common A	EA208a	PY597
104▼#	LT515	1*	07NPRV	2	500m	400m*	25m	3.0 Δ	48	1.7 †	20m	655n	600u	20m		CA Common K	EA208c	PY597
105	SLA1R	1	07NR	2		750m	40m	5.5		2.1 †	15m		1.0m	15m			EA69	PY☑
106#	AL304A	1	07NR	2	118m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0mΔ	350	CA		PY436☑
107#	AL304B	1	07NR	2	118m	88m	5.5mΔ		67*	2.0	5.0mΔ			5.0mΔ	200	CA		PY436☑
108#	AL304G	1	07NR	2	118m	264m	11mΔ		67*	3.0	5.0mΔ			5.0mΔ	350	CE		PY436☑
109#	AL304V	1	07NR	5	118m	264m	11mΔ		67*	3.0	10mΔ			10mΔ	60	BD		PY436☑
110#	GPD620	1	07NR	4	255m	2.0	120mΔ	12 Δ	XAØ	8.0	80m	575n	1.6m	80m	6.5k*	BD	EA181	PY524☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/ seg (V)	TEMP RNG. CODE - +	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN-ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM-ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	1702R	1	07NR	2	270m		240m	6.0 Δ	07*	3.8	20m	660n	275u	20m			♦	PY25a☑
2	1736R	1	07NR	2	270m			5.2	08☑	5.2	800u	660n	1.2m	5.0 ♦		CA W/Counter	EA5	PY27☑
3	TIL303	1	07NR	2	270m		200mΔ	6.0 Δ	07*	3.8	20m	660n	275u	20m			♦	PY25a☑
4	TIL307	1	07NR	2	270m			5.2 ♦	08*	5.2	800u♦	660n	1.2m	5.0 ♦		. w/Counter	EA5	PY27☑
5	TIL309	1	07NR	2	270m			5.2 ♦	08*	5.2	800u♦		660n	5.0 ♦		. w/Latch Dec	EA6	PY27☑
6▼	LRK1717R	1	07NR	2	270m	900m*		5.2 ♦	08			660n	1.2m	5.0 ♦		W/Latch;DEC	EA6	PY27☑
7▼	LRK1736R	1	07NR	2	270m	1.0 *		5.2 ♦	08			660n	1.2m	5.0 ♦		W/Counter	EA5	PY27☑
8#	AL309A	1	07NR	2	275m	352m	22m		17*	2.0	20mΔ		150uΔ	20m		CE		PY437☑
9#	AL309B	1	07NR	2	275m	352m	22m		17*	2.0	20mΔ		100uΔ	20m		CE		PY437☑
10#	AL309D	1	07NR	2	275m	352m	22m		17*	2.5	20mΔ		150uΔ	20m		CE		PY437☑
11#	AL309E	1	07NR	2	275m	352m	22m		17*	2.5	20mΔ		100uΔ	20m		CE		PY437☑
12#	AL309G	1	07NR	2	275m	352m	22m		17*	2.5	20mΔ		300uΔ	20m		CE		PY437☑
13#	AL309I	1	07NR	2	275m	352m	22m		17*	2.0	20mΔ		100uΔ	20m		CA		PY437☑
14#	AL309K	1	07NR	2	275m	352m	22m		17*	2.0	20mΔ		50uΔ	20m		CA		PY437☑
15#	AL309SZ	1	07NR	2	275m	352m	22m		17*	2.0	20mΔ		150uΔ	20m		CA		PY437☑
16#	AL309V	1	07NR	2	275m	352m	22m		17*	2.0	20mΔ		300uΔ	20m		CE		PY437☑
17#	TLR314	1	07NR	2	295m	170m	15mΔ	3.0	27*	2.4	15m	700n	110u	5.0m		BD	EA40a	PY169☑
18#	TLR315	1	07NR	2	295m	170m	15mΔ	3.0	27*	2.4	15m	700n	110u	5.0m		BD	EA40	PY169☑
19#	LN513GA	1	07NR	5	299m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA176	PY520
20#	LN513GK	1	07NR	5	299m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA176a	PY520
21#	LN513RA	1	07NR	2	299m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	5.0m		BD	EA176	PY520
22#	LN513RK	1	07NR	2	299m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	5.0m		BD	EA176a	PY520
23	1738R	1	07NR	2	300m		25mΔ	3.0	28	2.0	20m	655n	250u	20m		CA	EA129a	PY29j☑
24♦	5082-7731	1	07NR	2	300m		150mΔ	6.0 Δ	48	2.0	20m	655n	350u	20m		Common A	EA228a	PY635☑
25▼	5082-7736	1	07NR	2	300m		150mΔ	6.0 Δ	48	2.0	20m	655n	350u	20m		Universal	EA228b	PY635a☑
26▼	5082-7740	1	07NR	2	300m		150mΔ	6.0 Δ	48	2.0	20m	655n	200u	100m		Common K	EA228c	PY635b☑
27▼#	LT303	1	07NR	2	300m		25m	3.0 Δ	28	2.0	20m	655n	500u	20m		CA	EA8a	PY29f☑
28	SPX303	1	07NR	2	300m		150mΔ	3.0 Δ	28	2.0	20m	655n	500u	20m		CA	EA8a	PY29g
29	TIL313	1	07NR	2	300m		25mΔ	3.0 Δ	28*	2.0	20mΔ	655n	500u	20mΔ			EA8a	PY29d☑
30	HDSP-3531	1	07NR	2	300m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA109	PY60c☑
31	HDSP-3533	1	07NR	2	300m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA18	PY61☑
32	HDSP-4031	1	07NR	4	300m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	2.7mΔ	100m§		CA	EA100	PY60c☑
33	HDSP-4033	1	07NR	4	300m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	27mΔ	100m§		CA	EA18	PY61☑
34▼	7731R	1	07NR	2	300m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	200u	100m		Common A	EA109	PY60b
35▼	7740R	1	07NR	2	300m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	200u	100m		Common K	EA215	PY60b
36	HP5082-7740	1	07NR	2	300m	336m*	25mΔ	6.0 Δ	28*	2.0	20mΔ	655n	200uΔ	100m§		CA	EA18	PY61a☑
37▼	LRT1738R	1	07NR	2	300m	340m	25mΔ	3.0 Δ	28	2.0	20m	655n	800u	20m		CA Common K	EA129a	PY29j☑
38▼	7611R	1	07NR	2	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	635n	250u	5.0m		Common A	EA109	PY60b
39▼	7613R	1	07NR	2	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	635n	250u	5.0m		Common K	EA215	PY60b
40▼	7621Y	1	07NR	4	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	583n	200u	5.0m		Common A	EA109	PY60b
41▼	7623Y	1	07NR	4	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	583n	200u	5.0m		Common K	EA215	PY60b
42▼	7631G	1	07NR	5	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	565n	300u	10m		Common A	EA109	PY60b
43▼	7633G	1	07NR	5	300m	350m	20mΔ	6.0 Δ	28	2.5	20m	565n	300u	10m		Common K	EA215	PY60b
44	XAN3061	1	07NR	2	300m	350m*	25mΔ	5.0 Δ	28	2.2	20m	655n	450uΔ	20m		CA	EA54a	PY457☑
45	XAN3064	1	07NR	2	300m	350m*	25mΔ	5.0 Δ	28	2.2	20m	655n	450uΔ	20m		CA	EA54b	PY457☑
46▼	1351G	1	07NR	5	300m	400m*	20mΔ	3.0 Δ	48	3.5	20m	565n	250u	10m		Common A	EA175	PY64f☑
47▼	1354G	1	07NR	5	300m	400m*	20mΔ	3.0 Δ	48	3.5	20m	565n	250u	10m		Common K	EA175c	PY64f☑
48▼	1361E	1	07NR	3	300m	400m*	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA175	PY64f☑
49▼	1364E	1	07NR	3	300m	400m*	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common K	EA175c	PY64f☑
50▼	1381Y	1	07NR	4	300m	400m*	20mΔ	3.0 Δ	48	3.5	20m	585n	600u	10m		Common A	EA175	PY64f☑
51▼	1384Y	1	07NR	4	300m	400m*	20mΔ	3.0 Δ	48	3.5	20m	585n	600u	10m		Common K	EA175c	PY64f☑
52#	CQY81A	1	07NR	2	300m	400m*	30mΔ	3.0	28%	2.0	20m	650n	200u	20m		CA	EA72	PY304a☑
53	HP5082-7611	1	07NR	2	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	635n	250uΔ	5.0m		CA	EA109	PY60c☑
54	HP5082-7613	1	07NR	2	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	635n	250uΔ	5.0m		CA	EA18	PY61a☑
55	HP5082-7621	1	07NR	4	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	583n	200uΔ	5.0m		CA	EA109	PY60c☑
56	HP5082-7623	1	07NR	4	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	583n	200uΔ	5.0m		CA	EA18	PY61a☑
57	HP5082-7631	1	07NR	5	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	565n	300uΔ	10m		BD	EA109	PY60c☑
58	HP5082-7633	1	07NR	5	300m	400m*	20mΔ	6.0 Δ	28	2.5	20mΔ	565n	300uΔ	10m		BD	EA18	PY61a☑
59▼	LRT1738E	1	07NR	3	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	635n	4.0m	20m		EB Common K		PY29j☑
60▼	LRT1738G	1	07NR	5	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	565n	2.5m	20m		BD Common K		PY29j☑
61▼	LRT1738Y	1	07NR	4	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	585n	3.0m	20m		EB Common K		PY29j☑
62	MAN51A	1	07NR	5	300m	400m*	160m	3.0 Δ	48	3.5	20m	565n	125uΔ	10m			EA175	PY81a☑
63	MAN54A	1	07NR	5	300m	400m*	160m	3.0 Δ	48	3.5	20m	565n	125uΔ	10m			EA175c	PY81c☑
64	MAN81A	1	07NR	4	300m	400m*	160m	3.0 Δ	48	3.5	20m	585n	320uΔ	10m			EA175	PY81a☑
65	MAN84A	1	07NR	4	300m	400m*	160m	3.0 Δ	48	3.5	20m	585n	320uΔ	10m			EA175c	PY81c☑
66	MAN3610A	1	07NR	3	300m	400m	160m	3.0 Δ	48	2.5	20m	630n	510u	10m			EA175	PY81a☑
67	MAN3640A	1	07NR	3	300m	400m	160m	3.0 Δ	48	2.5	20m	630n	510u	10m			EA175c	PY81c☑
68	XAN3051	1	07NR	5	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	565n	500uΔ	10m		BD	EA54a	PY457☑
69	XAN3054	1	07NR	5	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	565n	500uΔ	10m		BD	EA54b	PY457☑
70	XAN3071	1	07NR	2	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500u	10m		BD	EA54a	PY457☑
71	XAN3074	1	07NR	2	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500u	10m		BD	EA54b	PY457☑
72	XAN3081	1	07NR	4	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	585n	300u	10m		BD	EA54a	PY457☑
73	XAN3084	1	07NR	4	300m	400m*	20mΔ	5.0 Δ	28	2.8	10m	585n	300u	10m		BD	EA54b	PY457☑
74	DL304	1	07NR	2	300m	480m	30mΔ	3.0 Δ	28	2.0	20m	660n	1.4m	10m			EA54b	PY540☑
75	DL704	1	07NR	2	300m	500m	240m	3.0 Δ	2A	2.0	20m	700n	1.4m	20m			EA24a	PY64☑
76	DL707R	1	07NR	2	300m	500m	240m	3.0 Δ	28	4.0	20m	700n	1.4m	20m			EA24b	PY64a☑
77▼	1371R	1	07NR	2	300m	700m*	30mΔ	5.0 Δ	48	2.0	20m	660n	300u	10m		Common A	EA175	PY64f☑
78▼	1374R	1	07NR	2	300m	700m*	30mΔ	5.0 Δ	48	2.0	20m	660n	300u	10m		Common K	EA175c	PY64f☑
79	MAN71A	1	07NR	2	300m	700m*	240m	5.0	48	2.0	20m	660n	125uΔ	10m			EA175	PY81a☑
80	MAN74A	1	07NR	2	300m	700m*	240m	5.0	48	2.0	20m	660n	125uΔ	10m			EA175c	PY81c☑
81#	TLR312	1	07NR	2	326m	350m	15mΔ	3.0	27*	2.4	15m	700n	110u	5.0m		BD	EA39	PY168☑
82#	TLR313	1	07NR	2	326m	350m	15mΔ	3.0	27*	2.4	15m	700n	110u	5.0m		BD	EA39b	PY168☑
83#	TLG312	1	07NR	5	327m	500m*	25mΔ	3.0	27*	2.8	20m	560n	110u	10m		BD	EA39	PY102a☑
84#	TLG313	1	07NR	5	327m	500m*	25mΔ	3.0	27*	2.8	20m	560n	110u	10m		BD	EA39b	PY102a☑
85	NSLA1R	1	07NR	2	334m	750m	40m	5.5		2.1	15m		1.0m	15m			EA174	PY512☑
86	FND350	1	07NR	2	362m		25mΔ	3.0	28§	2.0	20m	665n	450uΔ	20m	26 *	CA	EA63a	PY260☑
87	FND357	1	07NR	2	362m		25mΔ	3.0	28§	2.0	20m	665n	450uΔ	20m	26 *	CA	EA63	PY260☑
88	FND360	1	07NR	2	362m		25mΔ	3.0	28§	2.0	20m	665n	900uΔ	20m	52 *	CA	EA63a	PY260☑
89	FND367	1	07NR	2	362m		25mΔ	3.0	28§	2.0	20m	665n	900u	20m	52 *	CA	EA63	PY260☑
90#	SN713A	1	07NR	2	390m	400m	240m	3.0	27*	1.8	15m	660n				CA tr5.0ns	EA88	PY323☑
91#	SN716	1	07NR	2	390m	400m	30mΔ	3.0	27*	1.8	15m	660n				CA tr 5.0ns	EA88a	PY323☑
92▼	1451G	1	07NR	5	400m	400m*	20mΔ	3.0 Δ	48	3.5	20m	565n	250u	10m		Common A	EA175	PY600☑
93▼	1454G	1	07NR	5	400m	400m*	20mΔ	3.0 Δ	48	3.5	20m	565n	250u	10m		Common K	EA175c	PY600b☑
94▼	1461E	1	07NR	3	400m	400m*	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA175	PY600☑
95▼	1464E	1	07NR	3	400m	400m*	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common K	EA175c	PY600b☑
96▼	1481Y	1	07NR	4	400m	400m*	20mΔ	3.0 Δ	48	3.5	20m	585n	600u	10m		Common A	EA175	PY600☑
97▼	1484Y	1	07NR	4	400m	400m*	20mΔ	3.0 Δ	48	3.5	20m	585n	600u	10m		Common K	EA175c	PY600b☑
98#	GL8R04	1	07NR	2	400m	400m	25mΔ	5.0 Δ	37*	2.0	20m	655n	60u	20m		CA	EA116	PY377☑
99#	GL9R04	1	07NR	2	400m	400m	25mΔ	5.0 Δ	37*	2.0	20m	655n	60u	20m		CA	EA105	PY377☑
100♦	MAN4510	1	07NR	5	400m	400m*	160m	3.0	48	3.0	20m	565n	320u	10m		Common A	EA222a	PY615
101♦	MAN4540	1	07NR	5	400m	400m*	160m	3.0	48	3.0	20m	565n	320u	10m		Common K	EA222b	PY615
102♦	MAN4610	1	07NR	3	400m	400m*	160m	3.0	48*	2.5	20m	630n	510u	10m		Common A	EA222a	PY615
103♦	MAN4640	1	07NR	3	400m	400m*	160m	3.0	48*	2.5	20m	630n	510u	10m		Common K	EA222b	PY615
104♦	MAN4710	1	07NR	2	400m	400m*	240m	5.0	48*	2.0	20m	660n	200u	10m		Common A	EA222a	PY615
105♦	MAN4740	1	07NR	2	400m	400m*	240m	5.0	48*	2.0	20m	660n	200u	10m		Common K	EA222b	PY615
106♦	MAN4810	1	07NR	4	400m	400m*	160m	3.0	48	3.0	20m	585n	510u	10m		Common A	EA222a	PY615
107♦	MAN4840	1	07NR	4	400m	400m*	160m	3.0	48	3.0	20m	585n	510u	10m		Common K	EA222b	PY615
108▼	1471R	1	07NR	2	400m	700m*	30mΔ	5.0 Δ	48	2.0	20m	660n	300u	10m		Common A	EA175	PY600☑
109▼	1474R	1	07NR	2	400m	700m*	30mΔ	5.0 Δ	48	2.0	20m	660n	300u	10m		Common K	EA175c	PY600b☑
110	HDSP-3731	1	07NR	2	430m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA100	PY54☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/ seg (V)	TEMP RNG. CODE	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN -ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	HDSP-3733	1	07NR	2	430m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	635n	2.3mΔ	100m§		CA	EA52	PY54☑
2	HDSP-4131	1	07NR	4	430m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	2.7mΔ	100m§		CA	EA109	PY54☑
3	HDSP-4133	1	07NR	4	430m	83m%	30mΔ	6.0 Δ	48*	3.1	100mΔ	583n	2.7mΔ	100m§		CA	EA52	PY54☑
4▼	7751R	1	07NR	2	430m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m		Common A	EA109	PY170
5▼	7760R	1	07NR	2	430m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m		Common K	EA52	PY170
6	DL7751	1	07NR	2	430m	336m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m§			EA193a	PY553☑
7	DL7760	1	07NR	2	430m	336m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m§			EA193b	PY553☑
8	HP5082-7760	1	07NR	2	430m	336m*	25mΔ	6.0 Δ	28*	2.0	20mΔ	655n	400uΔ	20m		CA	EA52	PY54c☑
9▼	7651R	1	07NR	2	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	635n	300u	5.0m		Common A	EA109	PY170
10▼	7653R	1	07NR	2	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	635n	300u	5.0m		Common K	EA52	PY170
11▼	7661Y	1	07NR	4	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	583n	250u	5.0m		Common A	EA109	PY170
12▼	7663Y	1	07NR	4	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	583n	250u	5.0m		Common K	EA52	PY170
13▼	7671G	1	07NR	4	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	565n	250u	10m		Common A	EA109	PY170
14▼	7673G	1	07NR	5	430m	350m	20mΔ	6.0 Δ	28	2.5	20m	565n	250u	10m		Common K	EA52	PY170
15	DLG7670	1	07NR	5	430m	400m	20mΔ	6.0 Δ	28	3.0	20m	565n	640u	20m			EA193	PY553☑
16	DLG7671	1	07NR	5	430m	400m	20mΔ	6.0 Δ	28	3.0	20m	565n	640u	20m			EA193a	PY553☑
17	DLG7673	1	07NR	5	430m	400m	20mΔ	6.0 Δ	28	3.0	20m	565n	640u	20m			EA193b	PY553☑
18	DLO7651	1	07NR	2	430m	400m	20mΔ	6.0 Δ	28	2.5	20m	635n	1.7m	20m			EA193a	PY553☑
19	DLO7653	1	07NR	2	430m	400m	20mΔ	6.0 Δ	28	2.5	20m	635n	1.7m	20m			EA193b	PY553☑
20	DLY7661	1	07NR	4	430m	400m	20mΔ	6.0 Δ	28	3.0	20m	583n	1.5m	20m			EA193a	PY553☑
21	DLY7663	1	07NR	4	430m	400m	20mΔ	6.0 Δ	28	3.0	20m	583n	1.5m	20m			EA193b	PY553☑
22	HP5082-7651	1	07NR	2	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	635n	300uΔ	5.0m		CA	EA109	PY54a☑
23	HP5082-7653	1	07NR	2	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	635n	300uΔ	5.0m		CA	EA52	PY54a☑
24	HP5082-7661	1	07NR	4	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	583n	250uΔ	5.0m		CA	EA109	PY54a☑
25	HP5082-7663	1	07NR	4	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	583n	250uΔ	5.0m		CA	EA52	PY54a☑
26	HP5082-7671	1	07NR	5	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	565n	250uΔ	10m		BD	EA109	PY54a☑
27	HP5082-7673	1	07NR	5	430m	400m*	20mΔ	6.0 Δ	28*	2.5	20m	565n	250uΔ	10m		BD	EA52	PY54a☑
28#	LN514GA	1	07NR	5	433m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA176	PY520a
29#	LN514GK	1	07NR	5	433m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA176a	PY520a
30#	LN514RA	1	07NR	2	433m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	5.0m		BD	EA176	PY520a
31#	LN514RK	1	07NR	2	433m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	5.0m		BD	EA176a	PY520a
32#	CQX82A	1	07NR	2	433m	520m	30 Δ	3.0		2.0	20m	650n	200u	20m		CA	EA182	PY54
33	FND500	1	07NR	2	500m		25mΔ	3.0	28*	2.0	20m	665n	600uΔ	20m	35 *	CA	EA53a	PY176a☑
34	FND507	1	07NR	2	500m		25mΔ	3.0	28*	2.0	20m	665n	600uΔ	20m	35 *	CA	EA53	PY176a☑
35	FND530	1	07NR	5	500m		20mΔ	3.0	28§	3.2	20m	565n	2.0mΔ	20m	104 *	CD	EA53a	PY176a☑
36	FND537	1	07NR	5	500m		20mΔ	3.0	28§	3.2	20m	565n	2.0mΔ	20m	104 *	CD	EA53	PY176a☑
37	FND540	1	07NR	4	500m		20mΔ	3.0	28*	3.2	20m	585n	1.0mΔ	20m	52 *	DB	EA53a	PY176a☑
38	FND547	1	07NR	4	500m		20mΔ	3.0	28*	3.2	20m	585n	1.0mΔ	20m	52 *	DB	EA53	PY176a☑
39	FND550	1	07NR	3	500m		20mΔ	3.0	28§	3.2	20m	635n	2.0mΔ	20m	104 *	DB	EA53a	PY176a☑
40	FND557	1	07NR	3	500m		20mΔ	3.0	28§	3.2	20m	635n	2.0mΔ	20m	104 *	DB	EA53	PY176a☑
41	FND560	1	07NR	2	500m		25mΔ	3.0	28*	2.0	20m	665n	1.2mΔ	20m	70 *	CA	EA53a	PY176a☑
42	FND567	1	07NR	2	500m		25 Δ	3.0	28*	2.0	20m	665n	1.2mΔ	20m	70 *	CA	EA53	PY176a☑
43	SPX502	1	07NR	2	500m		200mΔ	3.0 Δ	28	2.0	20m	655n	600u	20m		CA	♦	PY30☑
44	SPX503	1	07NR	2	500m		200mΔ	3.0 Δ	28	2.0	20m	655n	600u	20m		CA	♦	PY30a☑
45	TIL321A	1	07NR	2	500m		25mΔ	3.0 Δ	28*	2.0	20mΔ	655n	600u	20m			EA166	PY506
46	TIL322A	1	07NR	2	500m		25mΔ	3.0 Δ	28*	2.0	20mΔ	655n	600u	20m			EA166a	PY506
47	XAN500	1	07NR	2	500m	300m*	25mΔ	3.0 Δ	38*	2.0	20mΔ	655n	500u	20m		CA	♦	PY30a☑
48	XAN507	1	07NR	2	500m	300m*	25mΔ	3.0 Δ	38*	2.0	20mΔ	655n	500u	20m		CA	♦	PY30☑
49▼	LRT1826R	1	07NR	2	500m	340m	25mΔ	3.0 Δ	27	2.0	20m	655n	600u	20m		CA Common A	EA218	PY168a☑
50▼	LRT1827R	1	07NR	2	500m	340m	25mΔ	3.0 Δ	27	2.0	20m	655n	600u	20m		CA Common K	EA218a	PY168a☑
51▼	LRT1826E	1	07NR	3	500m	400m	20mΔ	5.0	27	2.8	20m	635n	3.3m	20m		EB Common A	EA218	PY168a☑
52▼	LRT1826G	1	07NR	5	500m	400m	20m	5.0	27	2.8	20m	565n	2.4m	20m		BD Common A	EA218	PY168a☑
53▼	LRT1826HR	1	07NR	2	500m	400m	20m	5.0 Δ	27	2.8	20m	635n	3.3m	20m		Common A	EA218	PY168a☑
54▼	LRT1826Y	1	07NR	4	500m	400m	20m	5.0	27	2.8	20m	585n	2.2m	20m		EB Common A	EA218	PY168a☑
55▼	LRT1827E	1	07NR	3	500m	400m	20mΔ	5.0	27	2.8	20m	635n	3.3m	20m		EB Common K	EA218a	PY168a☑
56▼	LRT1827G	1	07NR	5	500m	400m	20m	5.0	27	2.8	20m	565n	2.4m	20m		BD Common K	EA218a	PY168a☑
57▼	LRT1827HR	1	07NR	2	500m	400m	20m	5.0 Δ	27	2.8	20m	635n	3.3m	20m		Common K	EA218a	PY168a☑
58▼	LRT1827Y	1	07NR	4	500m	400m	20m	5.0	27	2.8	20m	585n	2.2m	20m		EB Common K	EA218a	PY168a☑
59▼#	LT502	1	07NR	2	500m	400m*	25m	3.0 Δ	28	2.0	20m	655n	600u	20m		CA Common A	♦	PY30☑
60▼#	LT503	1	07NR	2	500m	400m*	25m	3.0 Δ	28	2.0	20m	655n	600u	20m		CA Common K	♦	PY30a☑
61▼	DLG507	1	07NR	5	500m	600m	25mΔ	3.0	28	3.0	20m	565n	2.5m	20m			EA53	PY544
62▼	DLO507	1	07NR	3	500m	600m	25mΔ	3.0	28	2.5	20m	630n	3.0m	20m			EA53	PY544
63▼	DLY507	1	07NR	4	500m	600m	25mΔ	3.0	28	3.0	20m	585n	2.5m	20m			EA53	PY544
64	DL500	1	07NR	2	500m	960m	30mΔ	3.0 Δ	28	2.0	20m	660n	2.8m	20m			EA53a	PY544☑
65	DL507	1	07NR	2	500m	960m	30mΔ	3.0 Δ	28	2.0	20m	660n	2.8m	20m			EA53	PY544☑
66	DL721	1*	07NR	2	510m	450m*	30mΔ	3.0 Δ	28*	2.5	20m	650n	2.8m	20m			EA45	PY157☑
67	DL722	1*	07NR	2	510m	450m*	30mΔ	3.0 Δ	28*	2.5	20m	650n	2.8m	20m			EA47	PY157☑
68▼	2666E	1	07NR	3	560m	400m	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA166	PY225b
69▼	2668E	1	07NR	3	560m	400m	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common K	EA166a	PY225b
70▼	2676R	1	07NR	2	560m	400m	20mΔ	5.0 Δ	48	2.0	20m	650n	200u	10m		Common A	EA166	PY225b
71▼	2678R	1	07NR	2	560m	400m	20mΔ	5.0 Δ	48	2.0	20m	650n	200u	10m		Common K	EA166a	PY225b
72	MAN6660	1	07NR	3	560m	400m*	160m	3.0 Δ	48*	2.5	20m	630n	510u	10m		CA	EA86	PY225b☑
73	MAN6680	1	07NR	3	560m	400m*	160m	3.0 Δ	48*	2.5	20m	630n	510u	10m		CA	EA86a	PY225b☑
74	MAN6760	1	07NR	2	560m	400m	160m	5.0 Δ	48	2.0	20m	650n	125uØ	10m		CA	EA86	PY472☑
75	MAN6780	1	07NR	2	560m	400m	160m	5.0 Δ	48	2.0	20m	650n	125uØ	10m		CA	EA86a	PY472☑
76	MAN6630	1*	07NR	3	560m	650m*	260m	3.0 Δ	48*	2.5	20m	630n	510u	10m		CA	EA55	PY225a☑
77	MAN6650	1*	07NR	3	560m	650m*	260m	3.0 Δ	48*	2.5	20m	630n	510u	10m		CA	EA56	PY225a☑
78	MAN6730	1*	07NR	2	560m	650m*	260m	5.0 Δ	48*	2.0	20m	650n	125u	10m		CA	EA55	PY225a☑
79#	LN516GA	1	07NR	5	567m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA178	PY472a
80#	LN516GK	1	07NR	5	567m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA178a	PY472a
81#	LN516RA	1	07NR	2	567m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	5.0m		BD	EA178	PY472a
82#	LN516RK	1	07NR	2	567m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	5.0m		BD	EA178a	PY472a
83#	TLR306	1	07NR	2	590m	750m*	35mΔ	3.0	27*	2.8	30m	700n	300u	10m		BD V;SS	EA39c	PY104☑
84#	TLR308	1	07NR	2	590m	750m*	35mΔ	3.0	27*	2.8	30m	700n	300u	10m		BD V;SS	EA39a	PY104☑
85	730-6004	1	07NR	2	600m	208m§	30mΔ	3.0 Δ	07	2.0 †	13m					BD	EA197	PY559a☑
86	730-6009	1	07NR	2	600m	208m§	30mΔ	3.0 Δ	07	2.0 †	13m					BD	EA197	PY559☑
87#	MSD161	1	07NR	2	600m	300m*	20mΔ	5.0	27	1.7 †	10m	660n	400u	10m		CA	EA1	PY445☑
88#	MSD165	1	07NR	2	600m	300m*	20mΔ	5.0	27	1.7 †	10m	660n	400u	10m		CA	EA135	PY444b☑
89▼	1810R	1	07NR	2	600m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA213	PY599
90	730-6001	1	07NR	2	600m	600m	30mΔ	3.0	27*	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA39a	PY104a☑
91	730-6002	1	07NR	2	600m	790m§		5.5 ♦	07							BD W/Dec Dvr	♦	PY558b☑
92	730-6007	1	07NR	2	600m	790m§		5.5 ♦	07							BD W/Dec Dvr	♦	PY558☑
93	730-6020	1	07NR	2	600m	875m§		5.2 ♦	07							BD Dec Dvr,Lat	♦	PY558a☑
94	730-6029	1	07NR	2	600m	875m§		5.2 ♦	07							BD Dec Dvr,Lat	♦	PY566☑
95#	SN756	1	07NR	2	602m	400m	30mΔ	3.0	27*	1.8	15m	660n				CA	EA88a	PY424☑
96#	GL8R06	1	07NR	2	630m	400m	25mΔ	5.0 Δ	27*	2.0	20m	655n	60u	20m		CA	EA104	PY376☑
97#	GL9R06	1	07NR	2	630m	400m	25mΔ	5.0 Δ	27*	2.0	20m	655n	60u	20m		CA	EA104	PY376☑
98▼	1806R	1	07NR	2	630m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA210	PY599
99▼	1807R	1	07NR	2	630m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA210a	PY599
100▼	1811R	1	07NR	2	630m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA76b	PY599
101▼#	LT1806	1	07NR	2	630m	430m*	125m	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA76b	PY599
102▼#	LT1807	1	07NR	2	630m	430m*	125m	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA76c	PY599
103▼	1802R	1	07NR	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common A	EA76b	PY599
104▼	1803R	1	07NR	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common K	EA76c	PY599
105▼	1814R	1	07NR	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common A	EA213	PY599
106▼	1815R	1	07NR	2	630m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common K	EA76b	PY599
107▼#	LT1802	1	07NR	2	630m	715m*	200m	6.0 Δ	27	3.8	20m	655n	900u	20m		Common A	EA76b	PY599
108▼#	LT1803	1	07NR	2	630m	715m*	200m	6.0 Δ	27	3.8	20m	655n	900u	20m		Common K	EA76c	PY599
109#	GL8P06	1	07NR	2	632m	200m*	10mΔ	5.0 Δ	37*	2.5	5.0mΔ	695n	300uΔ	5.0m		BD	EA104a	PY286☑
110#	GL9P06	1	07NR	2	632m	200m*	10mΔ	5.0 Δ	37*	2.5	5.0mΔ	695n	300uΔ	5.0m		BD	EA104	PY286☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/seg (V)	TEMP RNG. CODE	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN-ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM-ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1#	CQY84	1	07NR	2	771m	400m*	30mΔ	3.0	28%	2.0	20m	650n	100u	20m		CA	EA85	PY310☑
2	FND800	1	07NR	2	800m		25mΔ	3.0	28*	2.0	20m	665n	1.2mΔ	20m	64 *	CA	EA65	PY261☑
3	FND807	1	07NR	2	800m		25mΔ	3.0	28*	2.0	20m	665n	1.2mΔ	20m	64 *	CA	EA65a	PY261☑
4	HDSP-3401	1	07NR	2	800m	100m%	50mΔ	6.0 Δ	28*	2.0	20mΔ	655n	900uΔ	20m		CA	EA143	PY473a☑
5	HDSP-3403	1	07NR	2	800m	100m%	50mΔ	6.0 Δ	28*	2.0	20mΔ	655n	900uΔ	20m		CA	EA144	PY473a☑
6	MAN8610	1	07NR	2	800m	800m	240m	6.0 Δ	4A*	2.5	20mΔ	630n	1.0m	10m		EB	EA177	PY522☑
7	MAN8640	1	07NR	2	800m	800m	240m	6.0 Δ	4A*	2.5	20mΔ	630n	1.0m	10m		EB	EA177b	PY522☑
8	1720R	1	07NR	2	1.0	715m	25mΔ	6.0 Δ	27	3.8	20m	655n	500u	20m		CA	EA75	PY285☑
9	1723R	1	07NR	2	1.0	715m	25mΔ	6.0 Δ	27	3.8	20m	655n	500u	20m		CA	EA75a	PY285☑
10	EP1000	1	07NR	2	1.0	715m	25m	6.0	2A	3.8	20m	655n	250u	20m		CA	♦	PY284☑
11#	GL8R10	1	07NR	2	1.0	715m	25mΔ	5.0 Δ	27*	3.8	20m	655n	200u	20m		CA	EA103	PY375☑
12#	GL9R10	1	07NR	2	1.0	715m	25mΔ	5.0 Δ	27*	3.8	20m	655n	200u	20m		CA	EA103	PY375☑
13▼	LRT1720R	1	07NR	2	1.0	715m	25mΔ	6.0	27	3.8	20m	655n	500u	20m		Common A	EA75	PY285☑
14▼	LRT1723R	1	07NR	2	1.0	715m	25mΔ	6.0	27	3.8	20m	655n	500u	20m		Common K	EA75a	PY285☑
15▼#	LT1720	1	07NR	2	1.0	715m*	200m	6.0 Δ	27	3.8	20m	655n	500u	20m		Common A	EA75	PY284
16▼#	LT1723	1	07NR	2	1.0	715m*	200m	6.0 Δ	27	3.8	20m	655n	500u	20m		Common K	EA75a	PY284
17	MAN6750	1*	07NRV	2	560m	650m*	260m	5.0 Δ	48*	2.0	20m	650n	125u	10m		CA	EA56	PY225a☑
18	1739R	1	07NV	2	290m		25mΔ	3.0	28	2.0	20m	655n	250u	20m		CA	EA129b	PY29j☑
19	SLA2	1	07P	2		750m	40m	5.5		2.1 †	15m		1.0m	15m			EA69	PY☑
20	SLA9	1	07P	2		750m	40m	3.0		2.2	20m		300u	20m			EA69	PY☑
21#	SN715	1	07P	2	280m	220m	30mΔ	3.0	27*	1.8	15m	660n				CA tr 5.0ns	EA90	PY325☑
22	SPX304	1	07PD	2	300m		150mΔ	3.0 Δ	28	2.0	20m	655n	500u	20m		CA	EA8b	PY29h
23▼#	LT304	1	07PLV	2	290m		25m	3.0 Δ	28	2.0	20m	655n	500u	20m		CA	EA8b	PY29f☑
24	FND368	1	07PR	2	362m		25mΔ	3.0	28§	2.0	20m	665n	900uΔ	20m	52 *	CA	EA62	PY260☑
25	FND358	1	07PR	2	362m	300m	25mΔ	3.0	28*	2.0	20m	665n	450uΔ	20m	26 *	CA	EA62	PY260☑
26#	GL4R04A	1	07PR	2	381m	300m	25mΔ	5.0 Δ	27*	2.0	20m	655n	60u	20m		CA	EA102	PY374☑
27#	GL5R04A	1	07PR	2	381m	300m	25mΔ	5.0 Δ	27*	2.0	20m	655n	60u	20m		CA	EA102	PY374☑
28#	SN714	1	07PR	2	390m	220m	120m	3.0	27*	1.8	15m	660n				CA tr 5.0ns	EA89	PY324☑
29	FND501	1	07PR	2	500m		25mΔ	3.0	28*	2.0	20m	665n	600uΔ	20m	35 *	CA	EA64	PY176b☑
30	FND508	1	07PR	2	500m		25mΔ	3.0	28*	2.0	20m	665n	600uΔ	20m	35 *	CA	EA64a	PY176c☑
31	FND531	1	07PR	5	500m		20mΔ	3.0	28*	3.2	20m	565n	2.0mΔ	20m	104 *	CD	EA64	PY176b☑
32	FND538	1	07PR	5	500m		20mΔ	3.0	28*	3.2	20m	565n	2.0mΔ	20m	104 *	CD	EA64a	PY176b☑
33	FND541	1	07PR	4	500m		20mΔ	3.0	28*	3.2	20m	570n	2.0mΔ	20m	104 *	DB	EA64	PY176b☑
34	FND548	1	07PR	4	500m		20mΔ	3.0	28*	3.2	20m	570n	2.0mΔ	20m	104 *	DB	EA64a	PY176b☑
35	FND551	1	07PR	3	500m		20mΔ	3.0	28*	3.2	20m	635n	2.0mΔ	20m	104 *	DB	EA64	PY176b☑
36	FND558	1	07PR	3	500m		20mΔ	3.0	28*	3.2	20m	635n	2.0mΔ	20m	104 *	DB	EA64a	PY176b☑
37	FND561	1	07PR	2	500m		25 Δ	3.0	28*	2.0	20m	665n	1.2mΔ	20m	70 *	CA	EA64	PY176b☑
38	FND568	1	07PR	2	500m		25 Δ	3.0	28*	2.0	20m	665n	1.2mΔ	20m	70 *	CA	EA64a	PY176b☑
39	SPX504	1	07PR	2	500m		200mΔ	3.0 Δ	28	2.0	20m	655n	600u	20m		CA	♦	PY30b☑
40#	GL4R06A	1	07PR	2	590m	300m	25mΔ	5.0 Δ	27*	2.0	20m	655n	170u	20m		CA	EA115	PY414☑
41#	GL5R06A	1	07PR	2	590m	300m	25mΔ	5.0 Δ	27*	2.0	20m	655n	60u	20m		CA	EA102	PY414☑
42#	GL4R10A	1	07PR	2	984m	430m	25mΔ	5.0 Δ	27*	2.0	20m	655n	100u	20m		CA	EA114a	PY413☑
43#	GL5R10A	1	07PR	2	984m	430m	25mΔ	5.0 Δ	27*	2.0	20m	655n	100u	20m		CA	EA114	PY413☑
44▼	7616R	1	07PRV	2	290m	200m	20mΔ	6.0 Δ	28	2.5	20m	635n	250u	5.0m		Universal	EA110	PY60d
45▼	7626Y	1	07PRV	4	290m	200m	20mΔ	6.0 Δ	28	2.5	20m	583n	200u	5.0m		Universal	EA110	PY60d
46▼	7636G	1	07PRV	5	290m	200m	20mΔ	6.0 Δ	28	2.5	20m	565n	300u	10m		Universal	EA110	PY60d
47	HP5082-7736	1	07PRV	2	290m	252m*	25mΔ	6.0 Δ	28*	2.0	20mΔ	655n	350uΔ	20m		CA	EA110	PY60d☑
48▼	7736R	1	07PRV	2	290m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	200u	100m		Universal	EA110	PY60d
49	HP5082-7616	1	07PRV	2	290m	300m*	20mΔ	6.0 Δ	28	2.5	20mΔ	635n	250uΔ	5.0m		CA	EA110	PY60d☑
50	HP5082-7626	1	07PRV	4	290m	300m*	20mΔ	6.0 Δ	28	2.5	20mΔ	583n	200uΔ	5.0m		CA	EA110	PY60d☑
51	HP5082-7636	1	07PRV	5	290m	300m*	20mΔ	6.0 Δ	28	2.5	20mΔ	565n	300uΔ	10m		BD	EA110	PY60d☑
52▼	1453G	1	07PRV	5	400m	250m*	20mΔ	3.0 Δ	48	3.5	20m	565n	250u	10m		Common A	EA175d	PY600a☑
53▼	1463E	1	07PRV	3	400m	250m*	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA175d	PY600a☑
54▼	1483Y	1	07PRV	4	400m	250m*	20mΔ	3.0 Δ	48	3.5	20m	585n	600u	10m		Common A	EA175d	PY600a☑
55▼	1473R	1	07PRV	2	400m	350m*	30mΔ	5.0 Δ	48	2.0	20m	660n	300u	10m		Common A	EA175d	PY600a☑
56▼	7656R	1	07PRV	2	408m	200m	20mΔ	6.0 Δ	28	2.5	20m	635n	300u	5.0m		Universal	EA147	PY170a
57▼	7666Y	1	07PRV	4	408m	200m	20mΔ	6.0 Δ	28	2.5	20m	583n	250u	5.0m		Universal	EA147	PY170a
58▼	7676G	1	07PRV	5	408m	200m	20mΔ	6.0 Δ	28	2.5	20m	565n	250u	10m		Universal	EA147	PY170a
59	HP5082-7756	1	07PRV	2	408m	252m*	25mΔ	6.0 Δ	28*	2.0	20mΔ	655n	400uΔ	20m		CA	EA147	PY54e☑
60▼	7756R	1	07PRV	2	408m	294m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m		Universal	EA147	PY170a
61	HP5082-7656	1	07PRV	2	408m	300m*	20mΔ	6.0 Δ	28*	2.5	20m	635n	300uΔ	5.0m		CA	EA147	PY54b☑
62	HP5082-7666	1	07PRV	4	408m	300m*	20mΔ	6.0 Δ	28*	2.5	20m	583n	250uΔ	5.0m			EA147	PY54b☑
63	HP5082-7676	1	07PRV	5	408m	300m*	20mΔ	6.0 Δ	28*	2.5	20m	565n	250uΔ	10m		BD	EA147	PY54b☑
64	TIL330A	1	07PRV	2	500m		25mΔ	3.0 Δ	28*	2.0	20mΔ	655n	600u	20m			EA166b	PY506a
65▼	LRT1828E	1	07PRV	3	500m	250m	20mΔ	5.0	27	2.8	20m	635n	3.3m	20m		EB Common A	EA219	PY169a☑
66▼	LRT1828G	1	07PRV	5	500m	250m	20m	5.0	27	2.8	20m	565n	2.4m	20m		BD Common A	EA219	PY169a☑
67▼	LRT1828HR	1	07PRV	2	500m	250m	20m	5.0	27	2.8	20m	635n	3.3m	20m		Common A	EA219	PY169a☑
68▼	LRT1828Y	1	07PRV	4	500m	250m	20m	5.0	27	2.8	20m	585n	2.2m	20m		EB Common A	EA219	PY169a☑
69▼	LRT1829E	1	07PRV	3	500m	250m	20mΔ	5.0	27	2.8	20m	635n	3.3m	20m		EB Common K	EA219a	PY169a☑
70▼	LRT1829G	1	07PRV	5	500m	250m	20m	5.0	27	2.8	20m	565n	2.4m	20m		BD Common K	EA219a	PY169a☑
71▼	LRT1829HR	1	07PRV	2	500m	250m	20m	5.0	27	2.8	20m	635n	3.3m	20m		Common K	EA219a	PY169a☑
72▼	LRT1829Y	1	07PRV	4	500m	250m	20m	5.0	27	2.8	20m	585n	2.2m	20m		EB Common K	EA219a	PY169a☑
73▼	LRT1828R	1	07PRV	2	500m	255m	25mΔ	3.0 Δ	27	2.0	20m	655n	600u	20m		CA Common A	EA219	PY169a☑
74▼	LRT1829R	1	07PRV	2	500m	255m	25mΔ	3.0 Δ	27	2.0	20m	655n	600u	20m		CA Common K	EA219a	PY169a☑
75▼#	LT504	1	07PRV	2	500m	400m*	25m	3.0 Δ	28	2.0	20m	655n	600u	20m		CA	♦	PY30b☑
76▼	2663E	1*	07PRV	3	560m	650m	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA169a	PY225a
77▼	2665E	1*	07PRV	3	560m	650m	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common K	EA125d	PY225a
78▼	2673R	1*	07PRV	2	560m	650m	20mΔ	5.0 Δ	48	2.0	20m	650n	200u	10m		Common A	EA169a	PY225a
79▼	2675R	1*	07PRV	2	560m	650m	20mΔ	5.0 Δ	48	2.0	20m	650n	200u	10m		Common K	EA125d	PY225a
80▼	1824R	1	07PRV	2	587m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA213f	PY599a
81▼	1825R	1	07PRV	2	587m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA213g	PY599a
82▼	1818R	1	07PRV	2	587m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common A	EA213c	PY599a
83▼	1819R	1	07PRV	2	587m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common K	EA213d	PY599a
84▼	LRT1740R	1	07PRV	2	1.0	430m	25mΔ	6.0	27	3.8	20m	655n	500u	20m		Common A	EA76	PY289☑
85▼	LRT1743R	1	07PRV	2	1.0	430m	25mΔ	6.0	27	3.8	20m	655n	500u	20m		Common K	EA76a	PY289☑
86▼#	LT1740	1	07PRV	2	1.0	430m*	125m	6.0 Δ	27	3.8	20m	655n	500u	20m		Common A	EA76	PY289
87▼#	LT1743	1	07PRV	2	1.0	430m*	125m	6.0 Δ	27	3.8	20m	655n	500u	20m		Common K	EA76a	PY289
88	MAN8630	1	07PRVE	2	800m	650m	240m	6.0 Δ	48*	2.5	20mΔ	630n	1.0m	10m		EB	EA177a	PY521☑
89	MAN8650	1	07PRVE	2	800m	650m	240m	6.0 Δ	48*	2.5	20mΔ	630n	1.0m	10m		EB	EA177c	PY521☑
90	1703R	1	07PV	2	270m		150m	6.0 Δ	07*	3.8	20m	660n	275u	20m			♦	PY25b☑
91	TIL304	1	07PV	2	270m		200mΔ	6.0 Δ	07*	3.8	20m	660n	275u	20m			♦	PY25b☑
92	MAN101A	1	07PV	2	270m	280m§	10m			4.0	10m	660n		10m	100 *			PY67a☑
93	MAN1001A	1	07PV	2	270m	560m§	20m			4.0	20m	660n		20m	100 *			PY67a☑
94	DL101A	1	07PV	2*	270m	650m	200m	6.0 Δ	2A	4.0	20m	700n		10m	500 *	CA	EA20	PY67a☑
95	DL101	1	07PV	2*	270m	750m	240m	6.0 Δ	2A	4.0	20m	700n		20m	350 *		EA20	PY67a☑
96▼	1353G	1	07PV	5	294m	250m*	20mΔ	3.0 Δ	48	3.5	20m	565n	250u	10m		Common A	EA175b	PY64g☑
97▼	1363E	1	07PV	3	294m	250m*	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA175b	PY64g☑
98▼	1383Y	1	07PV	4	294m	250m*	20mΔ	3.0 Δ	48	3.5	20m	585n	600u	10m		Common A	EA175b	PY64g☑
99	MAN53A	1	07PV	5	294m	250m*	100m	3.0 Δ	48	3.5	20m	565n	125uΔ	10m			EA175b	PY81b☑
100	MAN83A	1	07PV	4	294m	250m*	100m	3.0 Δ	48	3.5	20m	585n	320uΔ	10m			EA175b	PY81b☑
101▼	1373R	1	07PV	2	294m	350m*	30mΔ	5.0 Δ	48	2.0	20m	660n	300u	10m		Common A	EA175b	PY64g☑
102	MAN73A	1	07PV	2	294m	350m*	150m	5.0	48	2.0	20m	660n	125uΔ	10m			EA175b	PY81b☑
103	DL301	1	07PV	2	300m		30mΔ			2.0	20m		2.8m	20m			EA25	PY540a☑
104	TIL327	1	07PV	2	300m		25mΔ	3.0 Δ	28*	2.0	20mΔ	655n	250uØ	20mΔ			EA8b	PY29e☑
105▼	LRT1735R	1	07PV	2	300m	340m	25mΔ	3.0 Δ	28	2.0	20m	655n	800u	20m		CA Universal	EA204	PY29j☑
106▼	LRT1739R	1	07PV	2	300m	340m	25mΔ	3.0 Δ	28	2.0	20m	655n	800u	20m		CA Common A	EA129b	PY29j☑
107▼	LRT1735E	1	07PV	3	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	635n	4.0m	20m		EB Universal		PY29j☑
108▼	LRT1735G	1	07PV	5	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	565n	2.5m	20m		BD Universal		PY29j☑
109▼	LRT1735Y	1	07PV	4	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	585n	3.0m	20m		EB Universal		PY29j☑
110▼	LRT1739E	1	07PV	3	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	635n	4.0m	20m		EB Common A		PY29j☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/ seg (V)	TEMP RNG. CODE - +	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN -ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1▼	LRT1739G	1	07PV	5	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	565n	2.5m	20m		BD Common A		PY29j☑
2▼	LRT1739Y	1	07PV	4	300m	400m	20mΔ	5.0 Δ	28	2.8	20m	585n	3.0m	20m		EB Common A		PY29j☑
3	DL701	1	07PV	2	300m	500m	240m	3.0 Δ	28	4.0	20m	700n	1.4m	20m			EA25	PY64b☑
4▼	MAN4505	1*	07PV	5	400m	250m*	100m	3.0	48	3.0	20m	565n	320u	10m		Universal	EA222	PY615a
5▼	MAN4605	1*	07PV	3	400m	250m*	100m	3.0	48	2.5	20m	630n	510u	10m		Universal	EA222	PY615a
6♦	MAN4630	1*	07PV	3	400m	250m*	100m	3.0	48*	2.5	20m	630n	510u	10m		Common A	EA222c	PY615a
7▼	MAN4805	1*	07PV	4	400m	250m*	100m	3.0	48	3.0	20m	585n	510u	10m		Universal	EA222	PY615a
8♦	MAN4705	1*	07PV	2	400m	400m*	100m	3.0	48*	2.0	20m	660n	200u	10m		Universal	EA222	PY615a
9	DL7756	1	07PV	2	408m	210m	25mΔ	6.0 Δ	28	2.0	20m	655n	350u	100m§			EA194	PY554☑
10	DLG7676	1	07PV	5	408m	250m	20mΔ	6.0 Δ	28	3.0	20m	565n	640u	20m			EA194	PY554☑
11	DLO7656	1	07PV	2	408m	250m	20mΔ	6.0 Δ	28	2.5	20m	635n	1.7m	20m			EA194	PY554☑
12	DLY7666	1	07PV	4	408m	250m	20mΔ	6.0 Δ	28	3.0	20m	583n	1.5m	20m			EA194	PY554☑
13▼	1820R	1	07PV	2	587m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common A	EA213a	PY599a
14▼	1821R	1	07PV	2	587m	430m	25mΔ	6.0 Δ	27	2.0	20m	655n	300u	20m		Common K	EA213e	PY599a
15▼	1816R	1	07PV	2	587m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common A	EA213a	PY599a
16▼	1817R	1	07PV	2	587m	715m	25mΔ	6.0 Δ	27	4.0	20m	655n	900uΔ	20m		Common K	EA213b	PY599a
17	XAN6530	1	07PV	5	600m	250m*	20mΔ	5.0 Δ	38*	2.8	10m	565n	1.5mΔ	20m		BD	EA97b	PY460☑
18	XAN6550	1	07PV	5	600m	250m*	20mΔ	5.0 Δ	38*	2.8	10m	565n	1.5mΔ	20m		BD	EA97c	PY460☑
19	XAN6630	1	07PV	2	600m	250m*	25mΔ	5.0 Δ	28	2.2	20m	655n	550uΔ	20m		CA	EA97b	PY460☑
20	XAN6650	1	07PV	2	600m	250m*	25mΔ	5.0 Δ	28	2.2	20m	655n	550uΔ	20m		CA	EA97c	PY460☑
21	XAN6830	1	07PV	4	600m	250m*	20mΔ	5.0 Δ	38*	2.8	10m	585n	700uΔ	10m		CA	EA97b	PY460☑
22	XAN6850	1	07PV	4	600m	250m*	20mΔ	5.0 Δ	38*	2.8	10m	585n	700uΔ	10m		CA	EA97c	PY460☑
23	XAN6930	1	07PV	2	600m	250m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500uΔ	10m		BD	EA97b	PY460☑
24	XAN6950	1	07PV	2	600m	250m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500uΔ	10m		BD	EA97c	PY460☑
25	DL746	1	07PV	2	630m					3.4	20m		5.0m	20m			EA23	PY65a☑
26	DL749	1	07PV	2	630m					3.4	20m		5.0m	20m			EA23a	PY65a☑
27	DL846	1	07PV	2	800m	450m*	30mΔ	3.0 Δ	58	4.0	20m	660n	2.8m	20m			EA23	PY545a☑
28	DL849	1	07PV	2	800m	450m*	30mΔ	3.0 Δ	58	4.0	20m	660n	2.8m	20m			EA23a	PY545a☑
29	XAN3053	1	07PVL	5	300m	300m*	20mΔ	5.0 Δ	28	2.8	10m	565n	500uΔ	10m		BD	EA97	PY458☑
30	XAN3063	1	07PVL	2	300m	300m*	25mΔ	5.0 Δ	28	2.2	20m	655n	450uΔ	20m		CA	EA97	PY458☑
31	XAN3073	1	07PVL	2	300m	300m*	20mΔ	5.0 Δ	28	2.8	10m	697n	500u	10m		BD	EA97	PY458☑
32	XAN3083	1	07PVL	4	300m	300m*	20mΔ	5.0 Δ	28	2.8	10m	585n	300u	10m		BD	EA97	PY458☑
33	XAN508	1	07PVR	2	500m	300m*	25mΔ	3.0 Δ	38*	2.0	20mΔ	655n	500u	20m		CA	♦	PY30b☑
34#	MSD162	1	09N	2	600m	300m*	20mΔ	5.0	27	1.7 †	10m	660n	400u	10m		CA	EA136	PY446☑
35	1707R	1	13HB	2	300m			5.5 ♦	08*	5.5	1.6m♦	660n	100u	5.0 ♦		W/Latch;Dec	EA7	PY28☑
36	TIL311	1	13HB	2	300m			6.5 ♦	08*	5.5	1.6m♦		660n	100u		. w/Latch,Dec	EA7	PY28☑
37▼	AND370R	1	16A	2	500m		80 Δ	3.0	37*	2.5	15m	700n	2.5m	5.0m		BD Common K	EA225	PY581☑
38▼	AND371R	1	16A	2	500m		80 Δ	3.0	37*	2.5	15m	700n	2.5m	5.0m		BD Common A	EA225a	PY581☑
39	HP5082-7340	1	47H	2	290m	935m			28☑	5.5	170m	655n	70u			. Dec Driver	EA17a	PY56b☑
40	HP5082-7359	1	47H	2	290m	935m			5A*			655n	40uΔ			w/Dec,Mem	EA79a	PY56b☑
41	HP5082-7395	1	47H	2	290m	935m			5A*			655n	40uΔ			W/Dec,Mem	EA79a	PY56b☑
42	745-0007	1	47HB	2*	270m	990m§	90m	6.5 ♦	07*	5.5 ♦	90m	660n	100u	5.0 ♦		w/Logic	EA7	PY28☑
43	749-2001	1	47HB	2*	270m	990m§	90m	6.5 Δ	07*	5.5 ♦	90m	660n	100u	5.0 ♦		CA Dec Dvr,Lat	EA7	PY572☑
44	TIL505	1	47HB	2	300m		20m#	7.0 ♦	5A*	5.5 ♦	5.0mΔ	660n	100u	5.0m		Dec Driver	EA7a	PY507
45▼	LRK1707R	1	47HB	2	300m	900m*		5.5 ♦	08			660n	100u	5.0 ♦		W/Latch;DEC	EA7	PY28☑
46	HP5082-7300	1	47N	2	290m	935m			28☑	5.5	170m	655n	70u			. Dec Driver	EA17	PY56☑
47	HP5082-7302	1	47N	2	290m	935m			28☑	5.5	170m	655n	70u			. Dec Driver	EA17	PY56a☑
48	HP5082-7357	1	47NL	2	290m	935m			5A*			655n	40uΔ			w/Dec,Mem	EA79	PY56a☑
49	HP5082-7392	1	47NL	2	290m	935m			5A*			655n	40uΔ			w/Dec,Mem	EA79	PY56a☑
50	HP5082-7304	1	47NP	2	290m	320m	10m	4.0	28☑	2.0	10m	655n	70u			±,1,Decimal	EA128	PY56c☑
51	HP5082-7358	1	47NP	2	290m	320m	10m#	4.0	5A*	2.0	10m	655n	85u#	6.0m		±,1,Decimal	EA128	PY56d☑
52	HP5082-7393	1	47NPR	2	290m	320m	10m	4.0	5A*	2.0	10m	655n	40u	6.0m			EA128	PY56d☑
53	HP5082-7356	1	47NR	2	290m	935m			5A*			655n	40uΔ			w/Dec,Mem	EA79	PY56☑
54	HP5082-7391	1	47NR	2	290m	935m			5A*			655n	40uΔ			w/Dec,Mem	EA79	PY56☑
55▼	LRT1704E	1	57A	3	300m	750m*	20m	5.0	27	2.8	10m	635n	450u	10m		EB X-Y Select	EA4	PY26a☑
56▼	LRT1704G	1	57A	5	300m	750m*	20m	5.0	27	2.8	10m	565n	450u	10m		BD X-Y Select	EA4	PY26a☑
57▼	LRT1704HR	1	57A	2	300m	750m*	20m	5.0	27	2.8	10m	635n	450u	10m		EB X-Y Select	EA4	PY26a☑
58▼	LRT1704R	1	57A	2	300m	750m*	20m	3.0	27	2.0	10m	655n	400u	10m		CA X-Y Select	EA4	PY26a☑
59▼	LRT1704Y	1	57A	4	300m	750m*	20m	5.0	27	2.8	10m	585n	450u	10m		EB X-Y Select	EA4	PY26a☑
60▼	LRT1057E	1	57A	3	1.1	750m*	20m	5.0	27	2.8	10m	635n	600u	10m		EB X-Y Select	EA216	PY601☑
61▼	LRT1057G	1	57A	5	1.1	750m*	20m	5.0	27	2.8	10m	565n	480u	10m		BD X-Y Select	EA216	PY601☑
62▼	LRT1057R	1	57A	2	1.1	750m*	20m	3.0	27	2.0	10m	655n	450u	10m		CA X-Y Select	EA216	PY601☑
63▼	LRT1057Y	1	57A	4	1.1	750m*	20m	5.0	27	2.8	10m	585n	550u	10m		EB X-Y Select	EA216	PY601☑
64▼#	GPD520	1	57AL	4	250m	2.0	80mΔ	6.0 Δ	6A	4.0	80m	575n	2.5m	80m	12k*	BD 1ms Pulses	♦	PY633☑
65	1704R	1	57AL	2	300m		200m	3.0	07*	2.0	10m	660n	110u	10m			EA4	PY26a☑
66	TIL305	1	57AL	2	300m		200m	3.0	07*	2.0	10m	660n	110u	10m			EA4	PY26☑
67	TIL504	1	57AL	2	300m		400m	3.0	5A*	2.0	10mΔ	660n	150u	10m			EA4a	PY36☑
68	TIL507	1	57AL	2	300m			7.0 ♦	5A*	5.5	1.0m♦	655n	110u	10m		. w/Driver	EA13	PY39☑
69	749-1301	1	57AL	2*	300m	1.7m§	400m	3.0	07	2.0	10m	650n	110u	10m		CA W/Char Gen	EA203	PY571a☑
70	745-0005	1	57AL	2*	300m	750m	400m	3.0	07*	2.0	10m	650n	110u	10m	300 *	CA	EA4	PY50☑
71	749-1901	1	57AL	2*	300m	750m	400m	3.0	07	2.0	10m	650n	110u	10m		CA	EA4	PY571☑
72	740-0018	1	57AL	2*	300m	1.7 §	400m	3.0	07*	2.0	10m	650n	110u	10m		CA W/Char Gen	EA203	PY567☑
73	740-0019	1	57AL	2*	300m	1.7 §	400m	3.0	07*	2.0	10m	650n	110u	10m		CA W/Char Gen	EA203	PY567☑
74	MAN2A	1	57AL	2	320m	750m*	20m#	5.0	48*	2.0	20m	660n	125u	10m		CA	EA36	PY82a☑
75	HP5082-7010	1	57NL	2	270m	2.3 §		7.0 ♦	59☑	5.5 ♦	350m	655n	115u#	260m		. Dec Driver	EA163	PY262a☑
76	HP5082-7011	1	57P	2	180m	2.3 §		7.0 ♦	59☑	5.5 ♦	350m	655n	115u#			CA	EA163a	PY262b☑
77	745-0018	2	03PR	2	300m	40m§	25mΔ	6.0 Δ	28*	2.0	20m	655n	500u	20m		CA	EA204	PY568☑
78	730-6011	2	03RV	2	600m	156m§	30mΔ	3.0 Δ	07	2.0 †	13m					BD	EA199	PY559b☑
79	730-6012	2	03RV	2	600m	390m§				5.0 †	13m					BD W/Resistors	EA200	PY561☑
80#	GL6P202	2	07N	2	236m	175m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	150u	5.0m		BD	EA113a	PY412☑
81#	GL7P202	2	07N	2	236m	175m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	150u	5.0m		BD	EA113	PY412☑
82#	GL6R202	2	07N	2	236m	350m	25mΔ	5.0 Δ	37*	2.0	20m	655n	150u	20m		CA	EA113a	PY412☑
83#	GL7R202	2	07N	2	236m	350m	25mΔ	5.0 Δ	37*	2.0	20m	655n	150u	20m		CA	EA113	PY412☑
84▼	TIL807	2	07N	2	300m		150mΔ	3.0 Δ	28	2.0	10m	655n	600u	20m		Common A	EA232	PY636Δ
85▼	TIL808	2	07N	2	300m		150mΔ	3.0 Δ	28	2.0	10m	655n	600u	20m		Common K	EA232a	PY636Δ
86#	TLR322	2	07N	2	300m		13mΔ	3.0	37*	2.5	13m	700n	150u	5.0m		BD	EA160	PY500☑
87#	TLR323	2	07N	2	300m		13mΔ	3.0	37*	2.5	13m	700n	150u	5.0m		BD	EA160a	PY500☑
88▼	LRT1794R	2	07N	2	390m		25m	3.0	28	2.0	20m	660n	500u	20m		CA Common A	EA132	PY429☑
89▼	LRT1795R	2	07N	2	390m		25m	3.0	28	2.0	20m	660n	500u	20m		CA Common K	EA132a	PY429☑
90▼#	LT532	2	07N	2	400m		25m	3.0	28	2.0	20m	660n	550u	20m		CA Common A	EA132	PY429
91▼#	LT533	2	07N	2	400m		25m	3.0	28	2.0	20m	660n	550u	20m		CA Common K	EA132a	PY429
92#	GL7P201	2	07N	2	400m	200m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	60u	5.0m		BD	EA112	PY411☑
93#	GL7R201	2	07N	2	400m	400m	25mΔ	5.0 Δ	37*	2.0	20m	655n	60u	20m		CA	EA112	PY411☑
94#	CQX85	2	07N	2	771m	585m	30mΔ	3.0	X9§		20m	650n	500u	20m		CA	EA133	PY433☑
95#	CQX85A	2	07N	2	771m	585m	30mΔ	3.0	X9§		20m	650n	500u	20m		CA	EA133a	PY433☑
96#	TLR320	2	07NC	2	400m		15mΔ	3.0 Δ	27*	2.5	15m	700n	130u	5.0m		BD	EA84	PY309☑
97#	TLR321	2	07NC	2	400m		15mΔ	3.0 Δ	27*	2.5	15m	700n	130u	5.0m		BD	EA84a	PY309☑
98#	GL6P201	2	07NDR	2	400m	200m	10mΔ	5.0 Δ	37*	2.5	5.0m	695n	60u	5.0m		BD	EA112a	PY411☑
99#	GL6R201	2	07NDR	2	400m	400m	25mΔ	5.0 Δ	37*	2.0	20m	655n	60u	20m		CA	EA112a	PY411☑
100	DL521	2	07NPR	2	500m	900m	30mΔ	3.0 Δ	28*	2.5	20m	650n	1.0m	20m			EA125	PY420☑
101	DL522	2	07NPR	2	500m	900m	30mΔ	3.0 Δ	28*	2.5	20m	650n	1.0m	20m			EA125b	PY420☑
102	DL527	2	07NPR	2	500m	900m	30mΔ	3.0 Δ	28*	2.5	20m	650n	1.0m	20m			EA125a	PY420a☑
103	DL528	2	07NPR	2	500m	900m	30mΔ	3.0 Δ	28*	2.5	20m	650n	1.0m	20m			EA125c	PY420a☑
104	739-0261-602	2	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
105	HP5082-7432	2	07NR	2	110m	160m	5.0mΔ	5.0	47*	2.0	5.0mΔ	655n	10uØ	5.0mΔ		CA	EA150	PY171☑
106	DL440M	2	07NR	2	150m		10mΔ			2.0	20m		1.5m	5.0m			EA26	PY543☑
107	DL44M	2	07NR	2	190m	320m*	10mΔ	3.0 Δ	29*	2.0	20m	700n	1.5m	5.0m		CA	EA26	PY70☑
108	NSN334	2	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA119	PY418☑
109	NSN373	2	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA119a	PY418☑
110	NSN374	2	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA119b	PY418☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	[5] TYPE No.	[1] NO. OF DIGITS	[2] TYPE OF DISPLAY	COLOR	[3] CHAR. HGHT. (in)	MAX. RATINGS @25°C [4] PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/ seg (V)	TEMP RNG. CODE	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	LUMIN -ANCE Lv IF (A)	*-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	NSN381	2	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA119c	PY418☑
2	NSN382	2	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA119d	PY418☑
3#	LN524GA	2	07NR	5	433m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA179	PY349a
4#	LN524GK	2	07NR	5	433m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA179a	PY349a
5#	LN524RA	2	07NR	2	433m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	10m		BD	EA179	PY349a
6#	LN524RK	2	07NR	2	433m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	10m		BD	EA179a	PY349a
7	NSN534	2	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA120	PY418a☑
8	NSN581	2	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA120a	PY418a☑
9	NSN582	2	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA120b	PY418a☑
10	NSN583	2	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA120c	PY418a☑
11	NSN584	2	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA120d	PY418a☑
12▼	TIL839	2	07NR	2	500m		200mΔ	3.0 Δ	28	2.0	10m	655n	600u	20m		Common A	EA227	PY634Δ
13▼	TIL840	2	07NR	2	500m		200mΔ	3.0 Δ	28	2.0	10m	655n	600u	20m		Common K	EA227a	PY634Δ
14▼	TIL841	2	07NR	2	500m		200mΔ	3.0 Δ	28	2.0	10m	655n	600u	20m		Common K	EA227b	PY634Δ
15▼	TIL842	2	07NR	2	500m		200mΔ	3.0 Δ	28	2.0	10m	655n	600u	20m		Common A	EA227c	PY634Δ
16#	TLR324	2	07NR	2	500m		20mΔ	3.0	37*	2.5	15m	700n	250uΔ	5.0m		BD	EA161	PY501☑
17#	TLR325	2	07NR	2	500m		20mΔ	3.0	37*	2.5	15m	700n	250uΔ	5.0m		BD	EA161a	PY501☑
18#	TLR326	2	07NR	2	500m		20mΔ	3.0	37*	2.5	15m	700n	250uΔ	5.0m		BD	EA161b	PY502☑
19#	TLR327	2	07NR	2	500m		20mΔ	3.0	37*	2.5	15m	700n	250uΔ	5.0m		BD	EA161c	PY502☑
20▼	1791R	2	07NR	2	500m	400m	200m	3.0 Δ	48	1.7	20m	655n	600u	20m		Common A	EA212b	PY597☑
21▼	1792R	2	07NR	2	500m	400m	200m	3.0 Δ	48	1.7	20m	655n	600u	20m		Common K	EA212c	PY597☑
22▼#	LT512	2	07NR	2	500m	400m*	25m	3.0 Δ	48	1.7 †	20m	655n	600u	20m		CA Common A	EA208	PY597
23▼#	LT513	2	07NR	2	500m	400m*	25m	3.0 Δ	48	1.7 †	20m	655n	600u	20m		CA Common K	EA208b	PY597
24	DL727	2	07NR	2	510m	900m*	30mΔ	3.0 Δ	28*	2.5	20m	650n	2.8m	20m			EA46	PY157a☑
25	DL728	2	07NR	2	510m	900m*	30mΔ	3.0 Δ	28*	2.5	20m	650n	2.8m	20m			EA48	PY157a☑
26▼#	CQX87A,K	2	07NR	2	511m	900m	25m#	5.0	28%	2.0	20m	660n	700uΔ	20m		CA	EA220a	PY613
27▼#	CQX89A,K	2	07NR	3	511m	900m	25m#	5.0	28%	3.0	20m	630n	1.5uΔ	20m		EB	EA220a	PY613
28▼#	CQX91A,K	2	07NR	5	511m	900m	25m#	5.0	28%	3.2	20m	560n	700uΔ	20m		BD	EA220a	PY613
29▼#	CQX93A,K	2	07NR	4	511m	900m	25m#	5.0	28%	3.2	20m	590n	1.0uΔ	20m		CA	EA220a	PY613
30	FND6710	2	07NR	2	560m		25mΔ	5.0	48*	2.0	20m	665n	250uΔ	10m		CA	EA169	PY508☑
31	FND6740	2	07NR	2	560m		25mΔ	5.0	48*	2.0	20m	665n	250uΔ	10m		CA	EA169a	PY508☑
32▼	2661E	2	07NR	3	560m	800m	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common A	EA125a	PY225
33▼	2664E	2	07NR	3	560m	800m	20mΔ	3.0 Δ	48	2.5	20m	630n	1.0m	10m		Common K	EA125c	PY225
34▼	2671R	2	07NR	2	560m	800m	20mΔ	5.0 Δ	48	2.0	20m	650n	200u	10m		Common A	EA125a	PY225
35▼	2674R	2	07NR	2	560m	800m	20mΔ	5.0 Δ	48	2.0	20m	650n	200u	10m		Common K	EA125c	PY225
36	MAN6610	2	07NR	3	560m	800m*	320m	3.0 Δ	48*	2.5	20m	630n	510u	10m		CA	EA46	PY225☑
37	MAN6640	2	07NR	3	560m	800m*	320m	3.0 Δ	48*	2.5	20m	630n	510u	10m		CA	EA48	PY225☑
38	MAN6710	2	07NR	2	560m	800m*	320m	5.0 Δ	48*	2.0	20m	650n	125u	10m		CA	EA46	PY225☑
39	MAN6740	2	07NR	2	560m	800m*	320m	5.0 Δ	48*	2.0	20m	650n	125u	10m		CA	EA48	PY225☑
40#	LN526GA	2	07NR	5	567m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA179	PY349b
41#	LN526GK	2	07NR	5	567m	50m*	20m	5.0	27	2.1 †	20m	560n	500u	10m		BD	EA179a	PY349b
42#	LN526RA	2	07NR	2	567m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	10m		BD	EA179	PY349b
43#	LN526RK	2	07NR	2	567m	50m*	20m	5.0	27	2.1 †	20m	700n	300u	10m		BD	EA179a	PY349b
44♦#	MSD261	2	07NR	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	400u	10m		CA		PYΔ
45	739-0261-601	2	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373☑
46	NSN734	2	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA121	PY418b☑
47	NSN781	2	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA121a	PY418b☑
48	NSN782	2	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA121b	PY418b☑
49	NSN783	2	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA121c	PY418b☑
50	NSN784	2	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA121d	PY418b☑
51	DL2130	2	07NR	2	1.0		30mΔ			4.0	20m		1.5m	10m			EA186	PY546☑
52▼	LRT1784R	2	14AR	2	540m	1.5 *	25mΔ	3.0 Δ	28	2.0	20m	655n	600u	20m		CA Common K	EA130a	PY427☑
53▼	LRT1785R	2	14AR	2	540m	1.5 *	25mΔ	3.0 Δ	28	2.0	20m	655n	600u	20m		CA Common K	EA130	PY427☑
54	1785RC	2	14NR	2	540m	750m	25mΔ	3.0	27	2.0	20m	655n	600uΔ	20m		CA	EA130	PY427☑
55	DL57	2	57AL	2	320m	750m	200m	3.0	2A	2.0	10m	650m		10m	300 *	CA	EA21	PY50a☑
56	HP5082-7402	3	07ND	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA Rgt Cluster	EA149	PY57☑
57	HP5082-7403	3	07ND	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA Lft Cluster	EA149a	PY57☑
58▼	TIL829	3*	07NE	2	500m		25mΔ	3.0	28	2.0	10m	655n	600u	20m		Alarm Ind	EA229	PY637Δ
59▼	TIL830	3*	07NE	2	500m		25mΔ	3.0	28	2.0	10m	655n	600u	20m		PM Ind	EA229	PY637aΔ
60▼	TIL831	3*	07NE	2	500m		25mΔ	3.0	28	2.0	10m	655n	600u	20m		Degree Ind	EA229	PY637bΔ
61	739-0361-602	3	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
62▼	TIL835	3*	07NPV	2	500m		200m	3.0	28	2.0	10m	655n	600u	20m		Common A	EA230	PY638Δ
63▼	TIL836	3*	07NPV	2	500m		200m	3.0	28	2.0	10m	655n	600u	20m		Common K	EA230a	PY638Δ
64▼	NSB5388	3*	07NPVM	2	500m		75mΔ	3.0 Δ	27	2.0	10mΔ	660n	200uΔ	10mΔ		CA	EA224	PY618☑
65▼	NSA0038	3	07NR	2	100m		70mΔ	3.0	27	2.0	5.0mΔ	660n	370uΔ	2.5mΔ		CA	EA106a	PY624
66	DL330M	3	07NR	2	110m		10mΔ			2.0	20m		1.5m	5.0m			EA185	PY541☑
67	HP5082-7412	3	07NR	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA Rgt Cluster	EA149d	PY57☑
68	HP5082-7413	3	07NR	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA Lft Cluster	EA149e	PY57☑
69	HP5082-7433	3	07NR	2	110m	240m	5.0mΔ	5.0	47*	2.0	5.0mΔ	655n	10uØ	5.0mΔ		CA	EA150a	PY171☑
70♦	DL430M	3	07NR	2	150m		10mΔ			2.0	20m		1.5m	5.0m			EA185	PY542☑
71	739-0361-601	3	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373a☑
72	DL3100	3	07NR	2	1.0		30mΔ			4.0	20m		1.5m	10m			EA187	PY547☑
73	DL3130	3	07NR	2	1.0		30mΔ			4.0	20m		1.5m	10m			EA187a	PY547☑
74	DL3531	3*	07NRP	2*	500m		30mΔ	8.0 Δ	58*	3.0	20mΔ	660n	500u	10mΔ			EA67	PY264☑
75	DL5122	3*	07NW	2	112m	500m	10mΔ		05*	1.7	5.0m	670n	680u					PY160Δ
76	AN3	3	09AE	2	100m	500m*	10mΔ	3.0 Δ	29*	2.0	20m	700n	1.5m	5.0m		CA	EA107	PY408☑
77	HP5082-7100	3	57A	2	270m	700m	10m#	4.0	59☑	2.0	50m§	655n	2.2m	100m§			EA152	PY63☑
78	TIL560	3	57A	2	500m			7.0 ♦	58*	5.5	1.6m♦	650n	7.0u	5.0 ♦		w/Shift Reg	EA15	PY41☑
79	730-6014	4	02FH	2	770m	237m§		3.0 Δ	07	2.2	27m					BD	EA198a	PY562☑
80	730-6016	4	02FH	2	770m	540m§			07	5.0 ♦	27m					BD W/Resistors	EA201	PY563☑
81▼#	LT656-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Common K	EA205	PY596Δ
82▼#	LT656T-12	4	07AC	2Δ	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Common K	EA205	PY596aΔ
83▼#	LT667-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Common K	EA205	PY596bΔ
84▼#	LT668-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm	EA205	PY596cΔ
85▼#	LT676-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm	EA205a	PY596dΔ
86▼#	LT677-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm	EA205a	PY596bΔ
87▼#	LT678-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm C.A.	EA205a	PY596eΔ
88▼#	LT696A	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		PM,Ind:24hr	EA206	PY596fΔ
89▼#	LT697-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		PM,W/Alarm	EA207a	PY596mΔ
90▼#	LT698-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		AM/PM,Alarm	EA206a	PY596gΔ
91▼#	LT699-12	4	07AC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		AM/PM,Ind	EA207	PY596hΔ
92▼#	LT656G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Common K	EA205	PY596Δ
93▼#	LT656PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Common K	EA205	PY596Δ
94▼#	LT656TG-12	4	07AC	5Δ	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Common K	EA205	PY596aΔ
95▼#	LT656TPG-12	4	07AC	5Δ	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Common K	EA205	PY596aΔ
96▼#	LT667G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Common K	EA205	PY596bΔ
97▼#	LT667PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Common K	EA205	PY596bΔ
98▼#	LT668G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm	EA205	PY596cΔ
99▼#	LT668PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm	EA205	PY596cΔ
100▼#	LT676G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm	EA205a	PY596dΔ
101▼#	LT676PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm	EA205a	PY596dΔ
102▼#	LT677G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm	EA205a	PY596bΔ
103▼#	LT677PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm	EA205a	PY596bΔ
104▼#	LT678G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm C.A.	EA205a	PY596eΔ
105▼#	LT678PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm C.A.	EA205a	PY596eΔ
106▼#	LT696AG	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		PM,Ind:24hr	EA206	PY596fΔ
107▼#	LT696APG	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		PM,Ind:24hr	EA206	PY596fΔ
108▼#	LT697G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		PM,W/Alarm	EA207a	PY596mΔ
109▼#	LT697PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		PM,W/Alarm	EA207a	PY596mΔ
110▼#	LT698G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		AM/PM,Alarm	EA206a	PY596gΔ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/ seg (V)	TEMP RNG. CODE	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	IF (A)	LUMIN -ANCE Lv *-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1▼#	LT698PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		AM/PM,Alarm	EA206a	PY596gΔ
2▼#	LT699G-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		AM/PM,Ind	EA207	PY596hΔ
3▼#	LT699PG-12	4	07AC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		AM/PM,Ind	EA207	PY596hΔ
4#	ALS311B	4	07N	2	118m		110m	5.0 Δ	15*	2.0	4.0m	660n	210u	600u		CA		PY440☑
5#	ALS311G	4	07N	2	118m		110m	5.0 Δ	15*	2.0	4.0m	660n	80u	600u		CA		PY440☑
6#	TLR2037	4	07NC	2	590m		15mΔ	3.0 Δ	27%	2.5	10m	700n	80uØ	10m		BD	EA91a	PY308cΔ
7#	TLR4030	4	07NC	2	590m		15mΔ	3.0 Δ	27%	2.5	10m	700n	80uØ	10m		BD	EA91b	PY308Δ
8#	TLR4032	4	07NC	2	590m		15mΔ	3.0 Δ	27%	2.5	10m	700n	80uØ	10m		BD	EA91	PY308aΔ
9#	MCD461-A2	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	200u	10m		CA 12 Hr	EA95b	PY441Δ
10#	MCD461-A4	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	200u	10m		CA 24 Hr	EA95b	PY441Δ
11#	MCD461-K2	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	200u	10m		CA 12 Hr	EA95	PY441Δ
12#	MCD461-K4	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	200u	10m		CA 24 Hr	EA95	PY441Δ
13#	MCDS461-A2	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	400u	10m		CA 12 Hr	EA95b	PY441Δ
14#	MCDS461-A4	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	400u	10m		CA 24 Hr	EA95b	PY441Δ
15#	MCDS461-K2	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	400u	10m		CA 12 Hr	EA95	PY441Δ
16#	MCDS461-K4	4	07NC	2	600m	300m	20m	5.0	28	1.7	10m	660n	400u	10m		CA 24 Hr	EA95	PY441Δ
17#	MP464	4	07NC	2	600m	300m	20mΔ	5.0 Δ	27	1.7	10m	660n	200u	10m		CA 24 Hr	EA183	PY536Δ
18▼#	LT656-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Common K	EA205	PY596Δ
19▼#	LT656T-24	4	07NC	2Δ	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Common K	EA205	PY596aΔ
20▼#	LT667-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Common K	EA205	PY596bΔ
21▼#	LT668-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm	EA205	PY596cΔ
22▼#	LT676-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm	EA205a	PY596dΔ
23▼#	LT677-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm	EA205a	PY596bΔ
24▼#	LT678-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm C.A.	EA205a	PY596eΔ
25▼#	LT697-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		W/Alarm	EA207a	PY596mΔ
26▼#	LT698-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		W/Alarm	EA206a	PY596gΔ
27▼#	LT699-24	4	07NC	2	600m	2.0 *	20mΔ	3.0	26	2.2	10m	655n	300u	10m		Alarm	EA207	PY596hΔ
28▼#	LT656G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Common K	EA205	PY596Δ
29▼#	LT656PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Common K	EA205	PY596Δ
30▼#	LT656TG-24	4	07NC	5Δ	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Common K	EA205	PY596aΔ
31▼#	LT656TPG-24	4	07NC	5Δ	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Common K	EA205	PY596aΔ
32▼#	LT667G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Common K	EA205	PY596bΔ
33▼#	LT667PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Common K	EA205	PY596bΔ
34▼#	LT668G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm	EA205	PY596cΔ
35▼#	LT668PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm	EA205	PY596cΔ
36▼#	LT676G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm	EA205a	PY596dΔ
37▼#	LT676PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm	EA205a	PY596dΔ
38▼#	LT677G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm	EA205a	PY596bΔ
39▼#	LT677PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm	EA205a	PY596bΔ
40▼#	LT678G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm C.A.	EA205a	PY596eΔ
41▼#	LT678PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm C.A.	EA205a	PY596eΔ
42▼#	LT697G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		W/Alarm	EA207a	PY596mΔ
43▼#	LT697PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		W/Alarm	EA207a	PY596mΔ
44▼#	LT698G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		W/Alarm	EA206a	PY596gΔ
45▼#	LT698PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		W/Alarm	EA206a	PY596gΔ
46▼#	LT699G-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	565n	300u	10m		Alarm	EA207	PY596hΔ
47▼#	LT699PG-24	4	07NC	5	600m	2.4 *	30mΔ	5.0	26	3.0	10m	550n	200u	10m		Alarm	EA207	PY596hΔ
48▼#	LT756	4	07NC	2	700m		20mΔ	3.0	26	2.2	10m	655n	300u	10m		12/24 hr	EA205	PY598
49	SPX766	4	07NC	2	700m		200mΔ	3.0 Δ	28	1.7 †	20m	655n	500u	20m			EA96	PY353☑
50	SPX767	4	07NC	2	700m		200mΔ	3.0 Δ	28	1.7 †	20m	655n	500u	20m			EA96	PY353☑
51#	TLR2087	4	07NC	2	900m		15mΔ	3.0 Δ	27%	2.5	10m	700n	100uØ	10m		BD	EA92a	PY332Δ
52#	TLR4080	4	07NC	2	900m		15mΔ	3.0 Δ	27%	2.5	10m	700n	100uØ	10m		BD	EA92a	PY332aΔ
53#	TLR4082	4	07NC	2	900m		15mΔ	3.0 Δ	27%	2.5	10m	700n	100uØ	10m		BD	EA92a	PY332bΔ
54#	TLR2057	4	07NC	2	905m		15mΔ	3.0 Δ	27%	2.5	10m	700n	100uØ	10m		BD	EA92	PY332Δ
55#	TLR4050	4	07NC	2	905m		15mΔ	3.0 Δ	27%	2.5	10m	700n	100uØ	10m		BD	EA92	PY332aΔ
56#	TLR4052	4	07NC	2	905m		15mΔ	3.0 Δ	27%	2.5	10m	700n	100uØ	10m		BD	EA92	PY332bΔ
57	HP5082-7404	4	07ND	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA	EA149b	PY57☑
58▼	TIL832	4	07NE	2	500m		25mΔ	3.0	28	2.0	10m	655n	600u	20m		Alarm Ind	EA229	PY637cΔ
59▼	TIL833	4	07NE	2	500m		25mΔ	3.0	28	2.0	10m	655n	600u	20m		PM Ind	EA229	PY637dΔ
60▼	TIL834	4	07NE	2	500m		25mΔ	3.0	28	2.0	10m	655n	600u	20m		Degree Ind	EA229	PY637eΔ
61#	MP463	4	07NK	2	600m	300m*	20mΔ	5.0 Δ	27*	1.7 †	10m	660n	200u	10m		CA	EA165	PY503Δ
62	DL4507	4	07NKC	2	500m		30mΔ			2.0	20m		800u	10m			EA190	PY550☑
63	DL4510	4	07NKC	2	500m		30mΔ			2.0	20m		800u	10m			EA191	PY551☑
64▼#	MCD461-C2	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	200u	10m		CA 12hr		PYΔ
65▼#	MCD461-C4	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	200u	10m		CA 24hr		PYΔ
66▼#	MCDS461-C2	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	400u	10m		CA 12hr		PYΔ
67▼#	MCDS461-C4	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	400u	10m		CA 24hr		PYΔ
68#	MID46-A2	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27*	1.7 †	10m	660n	200u	10m		CA Common A	EA95a	PY441Δ
69#	MID46-A4	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27*	1.7 †	10m	660n	200u	10m		CA Common A	EA95	PY441Δ
70#	MID46-K2	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27*	1.7 †	10m	660n	200u	10m		CA Common K	EA95a	PY441Δ
71#	MID46-K4	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27*	1.7 †	10m	660n	200u	10m		CA Common K	EA95	PY441Δ
72▼#	MIDS46-A2	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	400u	10m		CA 12hr		PYΔ
73▼#	MIDS46-A4	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	400u	10m		CA 24hr		PYΔ
74▼#	MIDS46-K2	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	400u	10m		CA 12hr		PYΔ
75▼#	MIDS46-K4	4	07NKC	2	600m	300m*	20mΔ	5.0 Δ	27	1.7 †	10m	660n	400u	10m		CA 24hr		PYΔ
76	DL4500	4	07NKEC	2	500m		30mΔ	8.0 Δ	58*	3.0	20mΔ	660n	500u	10mΔ			EA68a	PY267☑
77	DL4520A	4	07NKEC	2	500m		30mΔ	8.0 Δ	58*	3.0	20mΔ	660n	500u	10mΔ			EA68b	PY268☑
78#	TLR2047	4	07NKEC	2	600m		15mΔ	3.0 Δ	26*	2.5	10m	700n	80u	5.0m		BD	EA91d	PY308b☑
79#	TLR4040	4	07NKEC	2	600m		15mΔ	3.0 Δ	26*	2.5	10m	700n	80u	5.0m		BD	EA91e	PY308☑
80#	TLR4042	4	07NKEC	2	600m		15mΔ	3.0 Δ	26*	2.5	10m	700n	80u	5.0m		BD	EA91c	PY308a☑
81♦#	GPD424	4	07NL	4	145m	10	150mΔ	12 Δ	XAØ	7.5	80m	575n	2.0m	80m	12k*	BD 1ms Pulses	EA180	PY523☑
82▼	NSB5918	4*	07NPM	2	500m		150mΔ	3.0	27	2.0	10mΔ	660n	200uΔ	10mΔ		CA	EA224d	PY417b☑
83	739-0461-602	4	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
84▼#	GPD426	4*	07NPV	4	145m	10	150mΔ	12 Δ	XAØ	8.5	100m	575n	2.5m	100m	15k*	BD 1ms Pulses	EA180	PY523b☑
85▼	NSB5415	4*	07NPVM	2	500m		150mΔ	3.0	27	2.0	10mΔ	660n	200uΔ	10mΔ		CA	EA224c	PY417a☑
86	DL340M	4	07NR	2	110m		10mΔ			2.0	20m		1.5m	5.0m			EA28	PY79☑
87	HP5082-7414	4	07NR	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA	EA149f	PY57☑
88	DL34M	4	07NR	2	110m	500m*	10mΔ	3.0 Δ	29*	2.0	20m	700n	1.5m	5.0m		CA	EA28	PY79☑
89▼	NSA1541A	4	07NR	2	140m		70mΔ	3.0	27	2.0	5.0mΔ	660n	400uΔ	5.0mΔ		CA	EA223a	PY616a☑
90	NSB3382	4	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA122	PY419☑
91	NSB3881	4	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA122a	PY419☑
92	NSB3882	4	07NR	2	300m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA122b	PY419☑
93	DL4530	4	07NR	2*	500m		30mΔ	8.0 Δ	58*	3.0	20mΔ	660n	500u	10mΔ			EA67a	PY265☑
94	NSB5382	4	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA123	PY419a☑
95	NSB5881	4	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA123a	PY419a☑
96	NSB5882	4	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA123b	PY419a☑
97	739-0461-601	4	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373b☑
98	NSB7382	4	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA124	PY419b☑
99	NSB7881	4	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA124a	PY419b☑
100	NSB7882	4	07NR	2	700m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA124b	PY419b☑
101	DL4130	4	07NR	2	1.0		30mΔ			4.0	20m		1.5m	10m			EA188	PY548☑
102	DL4120A	4	07NRKC	2	1.0		30mΔ	14 Δ	58*	6.0	20mΔ	660n	900u	10mΔ			EA68	PY266☑
103▼#	GPD425	4*	07NV	4	145m	10	150mΔ	12 Δ	XAØ	8.5	100m	575n	2.5m	100m	15k*	BD 1ms Pulses	EA180	PY523a☑
104#	MP462	4	09NK	2	600m	300m*	20mΔ	5.0 Δ	27*	1.7 †	10m	660n	200u	10m		CA	EA164	PY538Δ
105	DL4509	4	09NR	2	500m		30mΔ	3.0 Δ	58	2.0	20m	660m	800u	10m			EA189	PY549☑
106	DL1414	4	16A		112m	125m§				5.0 ♦	25m					Intell Sys	EA195	PY555☑
107	DL2416	4	16A		160m	250m§				5.0 ♦	50m					Intell Sys	EA196	PY556☑
108▼	HDSP-6504	4	16AE	2	150m	138m	200mΔ	5.0	48	1.9	30m	655n	1.6m	30m		CA	EA221	PY614
109	DL416	4	16AEL	2	160m	510m*	15mΔ	3.5	27$	1.6 †	10m	660n	500u	10mΔ			EA66	PY263☑
110	DL1416	4	16AF	2	160m	175m§			27*			660n	100uΔ			w/Dec.Mem	EA127	PY421☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

35. DISPLAY: LED

IN ORDER OF:(1)NO. DIGITS (2)TYPE DISPLAY (3)CHAR. HT. (4)PWR.DISS.-Pcase &(5)TYPE No.

LINE No.	5 TYPE No.	1 NO. OF DIGITS	2 TYPE OF DISPLAY	COLOR	3 CHAR. HGHT. (in)	MAX. RATINGS @25°C 4 PWR. DISS. Pcase (W)	IF Δ-/seg #-/dio (A)	VR Δ-/ seg (V)	TEMP RNG. CODE	MAX. FWD. VOLT VF (V)	IF (A)	PEAK WAVE-LENGTH λp (m)	LUMINOUS INTENSITY Iv (cd)	LUMIN -ANCE Lv IF (A)	*-FT-L (nt)	MATERIAL & FEATURES MAT	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	HDSP-2000	4	57A	2	146m	1.7 *			27			655n	200uΔ	5.0 ♦		On-board SR	EA98	PY362☑
2	HP5082-7101	4	57A	2	270m	700m	10m#	4.0	59☑	2.0	50m§	655n	2.2m	100m§			EA152a	PY63a☑
3#	ALS311A	5	07N	2	118m		110m	5.0 Δ	15*	2.0	4.0m	660n	210u	600u		CA		PY440☑
4#	ALS311V	5	07N	2	118m		110m	5.0 Δ	15*	2.0	4.0m	660n	80u	600u		CA		PY440☑
5▼	TIL838	5	07N	2	270m		150m		27	2.0	10m	655n	150u	10m			EA231a	PY639a
6	HP5082-7405	5	07ND	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA	EA149c	PY58☑
7	HP5082-7265	5	07ND	2	175m	625m*	7.0mΔ	5.0	27	2.0	10mΔ	655n	70uΔ	2.0m		CA W/lens	EA99	PY363Δ
8	NSB5917	5	07NPR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA118	PY417☑
9	739-0561-602	5	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
10	HP5082-7415	5	07NR	2	110m	80m	5.0m	5.0	47*	2.0	10mΔ	655n	5.0uØ	10mΔ		CA	EA149g	PY58☑
11	HP5082-7285	5	07NR	2	175m	625m*	7.0mΔ	5.0	27	2.0	10mΔ	655n	70uΔ	2.0m		CA W/lens	EA99	PY363Δ
12▼	TIL837	5	07NR	2	270m		150m	3.0	27	2.0	10m	655n	150u	10m			EA231	PY639
13	NSB5921	5	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA118a	PY416☑
14	NSB5922	5	07NR	2	500m		20mΔ	3.0 Δ	27*	2.0	10mΔ	660n	100uΔ	10mΔ		CA	EA118b	PY416☑
15	739-0561-601	5	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373c☑
16	HP5082-7102	5	57A	2	270m	700m	10m#	4.0	59☑	2.0	50m§	655n	2.2m	100m§			EA152b	PY63b☑
17	730-6023	6	02FH	2	770m	356m§		3.0 Δ	07	2.2	27m					BD	EA199a	PY564☑
18	730-6025	6	02FH	2	770m	810m§			07	5.0 ♦	27m					BD W/Resistors	EA202	PY565☑
19	739-0661-602	6	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
20	TIL360	6	07NR	2	100m		10mΔ	2.0 Δ	07*	2.0	10m	660n	48uΔ	10m			EA9	PY31☑
21	TIL393-6	6	07NR	2	102m			3.0 Δ	28	2.1	10m	660n	200u	10m		CA Calculator	EA58b	PY228
22	DL6500	6	07NR	2	500m		30mΔ			2.0	20m		800u	10m			EA192	PY552☑
23▼	NSB5931	6	07NR	2	500m		150mΔ	3.0	27	2.0	10mΔ	660n	200uΔ	10mΔ		CA	EA224b	PY619☑
24	739-0661-601	6	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373d☑
25	DL6830	6	07NR	2	800m		30mΔ	3.0 Δ	28*	3.0	20mΔ	660n	500u	10mΔ			EA126	PY422☑
26	739-0761-602	7	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
27	739-0761-601	7	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373e☑
28	739-0861-602	8	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
29	TIL393-8	8	07NR	2	102m			3.0 Δ	28	2.1	10m	660n	200u	10m		CA Calculator	EA58a	PY228a
30	HP5082-7240	8	07NR	2	102m	400m	3.0mΔ	5.0	28*	1.6 †	5.0m	655n	12uΔ			CA Calculator	EA80	PY172☑
31	HP5082-7440	8	07NR	2	105m	400m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	9.0uØ	5.0mΔ		CA Calculator	EA80	PY172☑
32	HP5082-7448	8	07NR	2	105m	400m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	9.0uØ	5.0mΔ		CA Calculator	EA80	PY172b☑
33▼	NSA1588A	8	07NR	2	140m		70mΔ	3.0	27	2.0	5.0mΔ	660n	400uΔ	5.0mΔ		CA	EA223	PY616☑
34	739-0861-601	8	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373f☑
35	MAN2815	8	14AL	2	135m	640m*	20mΔ	5.0	48	2.0	20m	660n	120u	2.5m§		CA	EA141	PY469☑
36▼	HDSP-6508	8	16AE	2	150m	138m	200mΔ	5.0	48	1.9	30m	655n	1.6m	30m		CA	EA221a	PY614a
37	739-0961-602	9	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
38▼	NSA598	9	07NR	2	100m		60mΔ	3.0	27	2.0	7.0mΔ	660n	200uΔ	7.0mΔ		CA	EA226	PY623
39	NSA1198	9	07NR	2*	100m		7.0mΔ	3.0	27*	2.0	5.0mΔ	660n	370u	2.5mΔ		CA	♦	PY107Δ
40	TIL393-9	9	07NR	2	102m			3.0 Δ	28	2.1	10m	660n	200u	10m		CA Calculator	EA58	PY228b
41	HP5082-7241	9	07NR	2	102m	450m	3.0mΔ	5.0	28*	1.6 †	5.0m	655n	12uΔ			CA Calculator	EA80a	PY172☑
42	HP5082-7441	9	07NR	2	105m	450m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	9.0uØ	5.0mΔ		CA Calculator	EA80a	PY172a☑
43	HP5082-7449	9	07NR	2	105m	450m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	9.0uØ	5.0mΔ		CA Calculator	EA80a	PY172c☑
44	739-0961-601	9	07NR	2	600m	750m	30mΔ	3.0	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373g☑
45	739-1061-602	10	07NPR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
46	739-1061-601	10	07NR	2	600m	750m	30mΔ	3.0 Δ	28	2.8	10mΔ	700n	300uΔ	10mΔ		BD	EA101	PY373h☑
47	HP5082-7442	12	07NR	2	100m	600m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	35uΔ	5.0m§		CA Calculator	EA151	PY474☑
48	HP5082-7445	12	07NR	2	100m	600m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	35uΔ	5.0m§		CA Calculator	EA151b	PY474a☑
49▼	NSA7120	12	07NR	2	110m		70mΔ	3.0	27	2.0	5.0mΔ	660n	350uΔ	5.0mΔ		CA	EA224a	PY617☑
50	TIL804	12	07NR	2	270m		25mΔ	3.0	27*	2.1	20m	655n	100u	10m			EA138	PY456Δ
51	HP5082-7444	14	07NR	2	100m	700m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	35uΔ	5.0m§		CA Calculator	EA151a	PY475☑
52	NSA5140	14	07NR	2*	110m		20mΔ	3.0	27*	2.0	7.0mΔ	660n	450u	7.0mΔ		CA	♦	PY108Δ
53	HP5082-7447	14	07NR	2	112m	700m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	35uΔ	5.0m§		CA Calculator	EA151d	PY475a☑
54	HP5082-7275	15	07ND	2	175m	1.9 *	7.0mΔ	5.0	27	2.3	30mΔ	655n	90uΔ	2.0m		CA W/lens	EA99a	PY364Δ
55	HP5082-7295	15	07NR	2	175m	1.9 *	7.0mΔ	5.0	27	2.3	30mΔ	655n	90uΔ	2.0m		CA W/lens	EA99a	PY364Δ
56	HP5082-7446	16	07NR	2	115m	800m	3.0mΔ	5.0	28*	1.5 †	5.0mΔ	655n	35uΔ	5.0m§		CA Calculator	EA151c	PY476☑
57	932	32	09AE	2	140m	7.0 *	10mΔ	3.0 Δ	29*	2.0	20m	700n	1.5m	5.0m		CA w/Mem-Log	EA108	PY409

36. DISPLAY: LIQUID CRYSTAL

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. (4)PWR CONSUMP & (5)TYPE No.

LINE No.	5 TYPE No.	1 TYPE OF DISPLAY	2 NO. OF DIGITS	3 CHAR. HGHT. (in)	4 MAX. PWR. CONS. Δ-/seg (W)	TEMP RNG. CODE	OPERATING VOLTAGE MIN. VOLT - + (V)	MAX. VOLT (V)	FREQ. MIN. f (Hz)	FREQ. MAX. f (Hz)	CONTRAST RATIO	RISE TIME tr (S)	DECAY TIME tf (S)	LIFE (hrs)	COL -OR	FEATURES	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	3510	01	1	700m	10ut	08	1.5	20	30	100	10	200m	200m	30k	10$	Light Valve		☑
2	4X11	01	4	1.0	40ut	08	1.5	20	30	100	10	200m	200m	30k	10$	Light Valve		☑
3	2220-29	02	36	250m	4.0ut	08	4.0	15	30	100	20	100m	100m	50k	11	Dual Bar		
4	41S01A	02F	1	5.0		05*	18 †			500		100m#	120m*	50k		Spot;Trn,DS		☑
5	41S21	02F	1	5.0		05*	18 †			500		100m#	120m*	50k		Spot;Ref,DS		☑
6	81S01A	02F	1	10		05*	18 †			500		100m#	120m*	50k		Spot;Trn,DS		☑
7	81S21	02F	1	10		05*	18 †			500		100m#	120m*	50k		Spot;Ref,DS		☑
8	116I0A	02F	16	1.0		05*	18 †			500		100m#	120m*	50k		Trn,DS		PY151☑
9	116I2	02F	16	1.0		05*	18 †			500		100m#	120m*	50k		Ref,DS		PY151☑
10	78D5R10	07A	4	700m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY404Δ
11	78D7R10	07A	4	700m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY404Δ
12	3624-25	07AH	4	500m	1.0ut	08	4.0	15	30	100	20	100m	100m	50k	11	FE;9 Seg		
13	3391	07N	1	3.0	30ut	06	15	90	30	100	15	200m	200m	50k	10	DS		
14	41N01A	07N	1	3.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY149☑
15	41N21	07N	1	3.9		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY149☑
16	3491	07N	1	4.0	45ut	06	15	90	30	100	15	200m	200m	50k	10	DS		
17	60NT10	07N	1	6.0	14mΔ	06*	20	60		60 †		100m#	250m*			DS	♦	PY203☑
18	81N01A	07N	1	7.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY149a☑
19	81N21	07N	1	7.9		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY149a☑
20	3291	07N	1	12	50ut	18	6.0	15	30	100	20	200m	200m	30k	11	FE		
21	3602	07N	2	500m	1.0ut	18	4.0	12	30	100	20	100m	100m	50k	10$	FE		
22	3812	07N	2	800m	1.2ut	18	4.0	12	30	100	20	100m	100m	50k	10$	FE		
23	3102	07N	2	1.0	4.0ut	16	4.0	15	30	100	20	100m	100m	50k	10$	FE		
24	3222	07N	2	1.6	8.0ut	16	4.0	15	30	100	20	100m	100m	50k	10$	FE		
25	3202	07N	2	2.0	15ut	16	4.0	15	30	100	20	100m	100m	50k	10$	FE		
26	3402	07N	2	4.0	45ut	06	35	110	60	90	15	250m	250m	50k	10	DS		
27	60NT20	07N	2	6.0	14mΔ	06*	20	60		60 †		100m#	250m*			DS	♦	PY204☑
28	3353	07N	3	300m	600nt	08	4.0	15	30	100	20	100m	100m	20k	11	FE		
29	3603	07N	3	350m	800nt	08	3.0	12	30	100	20	100m	100m	20k	11	FE		
30	3403	07N	3	400m	800nt	06	4.0	15	30	100	20	90m	90m	20k	11	FE		
31	5623	07N	3	500m	1.0ut	06	4.0	15	30	100	20	90m	100m	20k	11	Digit w/Bar		
32	3703	07N	3	700m	1.0ut	06	4.0	15	30	100	20	100m	100m	30k	11	FE		
33	3103	07N	3	900m	2.0ut	06	4.0	15	30	100	20	150m	150m	30k	11	FE		
34	83D7R11	07N	3*	1.0		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12d	PY402aΔ
35	3203	07N	3	3.0	20ut	06	15	90	30	100	15	200m	200m	50k	10	DS		
36	3233-9	07N	3	3.0	20ut	06	5.0	15	30	100	20	100m	100m	50k	11	FE;DS SUBLIM		
37	3334	07N	4	300m	500nt	06	4.0	15	30	100	20	100m	100m	50k	11			Ø
38	5644	07N	4	400m	600nt	18	4.0	15	30	100	20	100m	100m	50k	11			
39	3614	07N	4	500m	800nt	18	5.0	15	30	100	20	100m	100m	50k	11	FE		
40	3624-24	07N	4	500m	800nt	18	5.0	15	30	100	20	100m	100m	50k	11	FE		
41	3624-27	07N	4	500m	800nt	26$	5.0	15	30	100	20	80m	60m	30k	11	MPLX		
42	3604	07N	4	500m	1.0ut	08	4.0	15	30	100	20	100m	100m	50k	11	FE		
43	3624-06	07N	4	500m	1.0ut	06	4.0	15	30	100	20	100m	100m	50k	11	FE		
44	3624-16	07N	4	500m	1.0ut	08	4.0	15	30	100	20	100m	100m	50k	11	FE		
45▼	SX172-1	07N	4	500m	24ut	05	2.5	15			20†	100m	100m	50k				PY514bΔ
46▼	SX172-5	07N	4	500m	28ut	26	3.0	15			20†	50m	50m	50k				PY514bΔ
47▼	SX172-6	07N	4	500m	30ut	28	4.0	15			20†	75m	75m	50k				PY514cΔ
48▼	SX181-1	07N	4	700m	24ut	05	2.5	15			20†	100m	100m	50k				PY514cΔ
49▼	SX181-5	07N	4	700m	28ut	26	3.0	15			20†	50m	50m	50k				PY514cΔ
50▼	SX181-6	07N	4	700m	30ut	28	4.0	15			20†	75m	75m	50k				
51	3804	07N	4	800m	3.0ut	26	4.0	15	30	100	15	80m	60m	30k	11	FE;MPLX		
52	3124-45	07N	4	1.0	1.0ut	06	4.0	15	30	100	20	100m	100m	50k	11	FE		
53	3104	07N	4*	1.0	4.0ut	06	4.5	15	30	100	20	120m	120m	50k	11	FE		
54	3124	07N	4	1.0	4.0ut	06	4.0	15	30	100	20	100m	100m	50k	11	FE		
55	3204	07N	4	2.0	20ut	06	15	90	30	100	15	200m	200m	50k	10	DS		
56	3414	07N	4	4.0	45ut	06	15	120	30	100	15	200m	200m	50k	10	DS		
57	47D5R03	07N	5	400m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12h	PY400Δ
58	47D7R03	07N	5	400m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12h	PY400Δ
59	3324-30	07N	5*	400m	400nt	18	3.0	15	30	100	20	80m	100m	50k	11	FE		
60	3125	07N	5	1.0	4.0ut	06	4.5	15	30	100	20	120m	120m	50k	11	FE		
61	3135	07N	5	1.0	4.0ut	06	4.5	15	30	100	20	120m	120m	50k	11	FE		
62	15NT50	07N	5	1.5	720uΔ	06*	20	60		60 †		100m#	250m*			DS	♦	PY196☑
63▼	D5360-1	07N	6	300m	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY590bΔ
64▼	D5360-5	07N	6	300m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY590
65▼	D5360-6	07N	6	300m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY590bΔ
66	60D5R05	07N	6	500m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY403aΔ
67	60D7R05	07N	6	500m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY403aΔ
68	3626	07N	6	500m	1.0ut	06	4.5	15	30	100	20	100m	100m	50k	11	FE		
69	3627	07N	6	650m	3.0ut	06	4.0	15	30	100	20	120m	120m	50k	11	FE;No DC		
70	70D5R10	07N	6	700m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY403Δ
71	70D7R10	07N	6	700m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY403Δ
72	3736-8	07N	6	700m	3.0ut	06	5.0	15	30	100	20	100m	120m	50k	11	FE		
73	3736-18	07N	6	700m	3.0ut	06	5.0	15	30	100	20	100m	120m	50k	11	FE		
74▼	SX179-1	07N	6	700m	24ut	05	2.5	15			20†	100m	100m	50k				PY590aΔ
75▼	SX179-5	07N	6	700m	28ut	26	3.0	15			20†	50m	50m	50k				PY590aΔ
76▼	SX179-6	07N	6	700m	30ut	28	4.0	15			20†	75m	75m	50k				PY590aΔ
77	3126	07N	6	1.0	4.0ut	26	5.0	15	30	100	20	80m	60m	50k	11	FE;MPLX		
78	3306	07N	6	3.0	30ut	06	5.0	15	30	100	20	200m	200m	50k	10$	FE;DS		
79	65D5R09	07N	8	500m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY405Δ
80	65D7R09	07N	8	500m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY405Δ
81	3682	07N	8	500m	700nt	06	5.0	15	30	100	20	100m	100m	30k	11	FE		
82	36316	07N	16	500m	1.0ut	08	4.5	15	30	100	20	120m	150m	30k	11	FE;Edge Conn		
83	40NT40	07NB	4	4.0	6.0mΔ	06*	20	60		60 †		100m#	250m*			DS		PY201☑
84▼	FE0501	07NBEV	3*	700m		15	3.0	10	30	100	20†	30m	120m	50k		Ref,Trn,Trf		PY586Δ
85▼	FE0701	07NBEV	3*	1.0		15	3.0	10	30	100	20†	30m	120m	50k		Ref,Trn,Trf	♦	PY586aΔ
86▼	LCD1672R-06	07NBK	4	350m	12u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY426☑
87▼	LCD1672R-12	07NBK	4	350m	29u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY426☑
88▼	LCD1657R-06	07NBK	4	500m	20u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY336Δ
89▼	LCD1657R-12	07NBK	4	500m	48u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY336Δ
90	FE0202	07NBK	4	500m	425u	15	3.0	17	30	100	20†	20m	95m	50k		Ref,Trn,Trf	♦	PY514Δ
91▼	FE0502	07NBK	4	700m		15	3.0	10	30	100	20†	30m	120m	50k		Ref,Trn,Trf	♦	PY514aΔ
92▼	LCD1658R-06	07NBK	4	700m	40u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY337Δ
93▼	LCD1658R-12	07NBK	4	700m	96u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY337Δ
94▼	LCD1666R-06	07NBK	5	400m	15u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY341Δ
95▼	LCD1666R-12	07NBK	5	400m	36u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY341Δ
96▼	LCD1663R-06	07NBK	6	500m	30u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY342Δ
97▼	LCD1663R-12	07NBK	6	500m	72u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY342Δ
98	FE0401	07NBK	6	500m	425u	15	3.0	17	30	100	20†	20m	95m	50k		Ref,Trn,Trf	♦	PY516Δ
99▼	FE0601	07NBK	6	700m		15	3.0	10	30	100	20†	30m	120m	50k		Ref,Trn,Trf	♦	PY516aΔ
100▼	LCD1665R-06	07NBK	8	500m	40u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY344Δ
101▼	LCD1665R-12	07NBK	8	500m	96u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY344Δ
102	FE0301	07NBPE	3*	500m	425u	15	3.0	17	30	100	50†	20m	95m	50k		Ref,Trn,Trf	EB27	PY515Δ
103	MLC400	07NBPM	3*	380m	20uΔ	05*	4.0 †		64 †		28	150m#	190m*			FE,Panel	♦	PY425Δ
104	MLC250	07NBPM	4*	500m	20uΔ	05*	3.0	20	32 †		30†	150m#	190m*		11	FE,Trn,Ref	♦	PY380aΔ
105	MLC250TW	07NBPM	4*	500m	20uΔ	05*	3.0	20	32 †		30†	150m#	190m*		10	FE,Trn,Ref	♦	PY380aΔ
106▼	FE0203	07NBPV	3*	500m		15	3.0	10	30	100	20†	30m	120m	50k		Ref,Trn,Trf		PY583Δ
107	FE0201	07NBPV	3*	500m	425u	15	3.0	17	30	100	20†	20m	95m	50k		Ref,Trn,Trf	♦	PY513Δ
108	22N01A	07NC	2	2.0		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY147☑
109	22N21	07NC	2	2.0		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY147☑
110▼	61025	07NC	3*	250m	150u	18	2.5	15	30	100	20	150m☑	150m☑	50k	11	Ref,Trn,Trf		PY640Δ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

36. DISPLAY: LIQUID CRYSTAL

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. (4)PWR CONSUMP & (5)TYPE No.

LINE No.	5 TYPE No.	1 TYPE OF DISPLAY	2 NO. OF DIGITS	3 CHAR. HGHT. (in)	4 MAX. PWR. CONS. Δ-/seg (W)	TEMP RNG. CODE - +	OPERATING VOLTAGE MIN. VOLT (V)	MAX. VOLT (V)	FREQ. MIN. f (Hz)	FREQ. MAX. f (Hz)	CONTRAST RATIO	RISE TIME tr (S)	DECAY TIME tf (S)	LIFE (hrs)	COL -OR	FEATURES	SCHEM -ATIC	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1▼	C533A-1	07NC	3*	300m	24u†	05	2.5	15			20†	100m	100m	50k		AM/PM Clock		PY591Δ
2▼	C533A-5	07NC	3*	300m	28u†	26	3.0	15			20†	50m	50m	50k		AM/PM Clock		PY591Δ
3▼	C533A-6	07NC	3*	300m	30u†	28	4.0	15			20†	75m	75m	50k		AM/PM Clock		PY591Δ
4	46D7R03	07NC	3*	500m		26*	7.0	20	30	150	20†	50m☐	300m☐	50k				
5	3930-210	07NC	3*	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k		Ref,Trn,Trf	EB12g	PY382c△
6	3930-312	07NC	3*	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k		Trn	EB16	PY431Δ
7	3930-313	07NC	3*	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k	11	Trf	EB16	PY431Δ
8	3624-26	07NC	3	500m	700n†	06	4.0	15	30	100	20†	75m#	150m*	50k	11	Ref	EB16	PY431Δ
9	3902-210	07NC	3*	500m	150u†	05*	4.0	17	30	100	20	100m	100m	50k	11	FE;AM/PM		
10	3902-312	07NC	3*	500m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB21	PY294
11	3902-313	07NC	3*	500m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trn	EB21	PY294
12▼	61050	07NC	3*	500m	150u	18	2.5	15	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB21	PY294
13▼	L563A-1	07NC	3*	600m	24u†	05	2.5	15			20	150m☐	150m☐	50k	11	Ref,Trn,Trf		PY640Δ
14▼	L563A-5	07NC	3*	600m	28u†	26	3.0	15			20†	100m	100m	50k		12 hr AM/PM		PY591a△
15▼	L563A-6	07NC	3*	600m	30u†	28	4.0	15			20†	50m	50m	50k		12 hr AM/PM		PY591a△
16	56D7R08	07NC	3*	700m		26*	7.0	20	30	150	20†	75m	75m	50k		12 hr AM/PM		PY591a△
17	3927-110	07NC	3*	700m	150u†	05*	4.0	17	30	100	20†	50m☐	300m☐	50k		Ref,Trn,Trf	EB12g	PY383a△
18	3927-210	07NC	3*	700m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	Trn	EB18	PY293a△
19	3927-312	07NC	3*	700m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB18	PY293a
20	3927-313	07NC	3*	700m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB18	PY293a
21▼	61075	07NC	3*	750m	150u	18	2.5	15	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB18	PY293a
22▼	61100	07NC	3*	1.0	150u	18	2.5	15	30	100	20	150m☐	150m☐	50k	11	Ref,Trn,Trf		PY640Δ
23	3402-110	07NC	3*	1.1		55	4.0	17	30	100	20	150m☐	150m☐	50k	11	Ref,Trn,Trf		PY640Δ
24	3402-210	07NC	3*	1.1		55	4.0	17	30	100	20†	75m#	150m*	50k	11	Trn	EB25	PY467Δ
25	3402-312	07NC	3*	1.1		55	4.0	17	30	100	20†	75m#	150m*	50k		Trn	EB25	PY467Δ
26	3402-313	07NC	3*	1.1		55	4.0	17	30	100	20†	75m#	150m*	50k	11	Trf	EB25	PY467Δ
27	18CT12	07NC	3*	1.8	1.0mΔ	06*	20	60		60 †		100m#	250m*		11	Ref	EB25	PY467Δ
28	3906-110	07NC	4	400m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k		DS	♦	PY197☐
29	3909-210	07NC	4*	400m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	Trn	EB19	PY292e△
30	3909-312	07NC	4*	400m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB22	PY294b
31	3909-313	07NC	4*	400m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB22	PY294b
32	42D5R03	07NC	4	500m		15*	3.0	10	30	150	20†	75m#	150m*	50k	11	FE,Ref	EB22	PY294b
33	42D7R03	07NC	4	500m		26*	7.0	20	30	150	20†	50m☐	300m☐	50k		Ref,Trn,Trf	EB12c	PY382Δ
34	3929-210	07NC	4	500m		15*	4.0	17	30	100	20†	50m☐	300m☐	50k		Ref,Trn,Trf	EB12c	PY382Δ
35	3929-312	07NC	4	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k		Trn	EB15	PY430Δ
36	3929-313	07NC	4	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k	11	Trf	EB15	PY430Δ
37	3906-210	07NC	4	500m	150u†	15*	4.0	17	30	100	20†	75m#	150m*	50k	11	Ref	EB15	PY430Δ
38	3906-312	07NC	4	500m	150u†	15*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB19	PY294a
39	3906-313	07NC	4	500m	150u†	15*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB19	PY294a
40	3404-110	07NC	4	600m		55	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB19	PY294a
41	3404-210	07NC	4	600m		55	4.0	17	30	100	20†	75m#	150m*	50k	11	Trn	EB26	PY468Δ
42	3404-312	07NC	4	600m		55	4.0	17	30	100	20†	75m#	150m*	50k		Trn	EB26	PY468Δ
43	3404-313	07NC	4	600m		55	4.0	17	30	100	20†	75m#	150m*	50k	11	Trf	EB26	PY468Δ
44▼	L564C-1	07NC	4	600m	24u†	05	2.5	15			20†	100m	100m	50k	11	Ref	EB26	PY468Δ
45▼	L564C-5	07NC	4	600m	28u†	26	3.0	15			20†	50m	50m	50k		24 hr Clock		PY514dΔ
46▼	L564C-6	07NC	4	600m	30u†	28	4.0	15			20†	75m	75m	50k		24 hr Clock		PY514dΔ
47	23.5C01A	07NC	4	1.9		05*	18 †			500		100m#	120m*	50k		24 hr Clock		PY514dΔ
48	23.5C21	07NC	4	1.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY148☐
49	43.5C01A	07NC	4	3.9		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY148☐
50	43.5C21	07NC	4	3.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY150☐
51▼	SH189-5	07NC	4	12	28u†	26	3.0	15			20†	50m	50m	50k		Ref,DS	♦	PY150☐
52▼	SH189-6	07NC	4	12	30u†	28	4.0	15			20†	75m	75m	50k				PY☐
53▼	SX135-1	07NC	6	500m	24u†	05	2.5	15			20†	100m	100m	50k				PY☐
54▼	SX135-5	07NC	6	500m	28u†	26	3.0	15			20†	50m	50m	50k				PY590Δ
55▼	SX135-6	07NC	6	500m	30u†	28	4.0	15			20†	75m	75m	50k				PY590Δ
56	3918-110	07NC	6	500m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k				PY590Δ
57	3918-210	07NC	6	500m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	Trn	EB20	PY293Δ
58	3918-312	07NC	6	500m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB20	PY293
59	3918-313	07NC	6	500m	150u†	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB20	PY293
60	3206	07NC	6	2.0	16u†	06	5.0	15	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB20	PY293
61	3420	07NCK	4	330m		15	4.0	17	30	100	20	200m	200m	50k	11	FE		
62	3421	07NCK	4	405m		15	4.0	17	30	100	20	150m#	300m*	50k			EB32	PY527☐
63	3411	07NCK	4	500m		15	4.0	17	30	100	20	150m#	300m*	50k			EB33	PY528☐
64	3417	07NCK	4	500m		15	4.0	17	30	100	20	150m#	300m*	50k			EB30	PY525☐
65	734	07NDM	4	250m		05*	2.7	3.0 †	25	100	20	150m#	300m*	50k			EB31	PY526☐
66	46D5R03	07NEC	3*	500m		15*	3.0	10	30	150	20Ø	120m#	185m*	50k	11	Inst Display	EB17c	PY454Δ
67	56D5R08	07NEC	3*	700m		15*	3.0	10	30	150	20†	50m☐	300m☐	50k		Ref,Trn,Trf	EB12g	PY382c△
68▼	FE0101	07NEC	4	300m		05	3.0	10	30		20†	50m☐	300m☐	50k		Ref,Trn,Trf	EB12g	PY383a△
69	MLC200	07NEC	4*	500m	20uΔ	05*	3.0	20	32 †		20†	50m	120m			FE	♦	PY582Δ
70	MLC200TW	07NEC	4*	500m	20uΔ	05*	3.0	20	32 †		30†	150m#	190m*		11	FE,Trn,Ref	♦	PY380Δ
71#	FW002R	07NEK	3*	236m	14m	55*	6.0	20			30†	150m#	190m*		10	FE,Trn,Ref	♦	PY380Δ
72▼	FE0402	07NEM	3*	500m		15	3.0	10	30	100		75m	100m				♦	PY254☐
73▼	FE0403	07NEM	4*	400m		15	3.0	10	30	100	20†	30m	120m	50k		Ref,Trn,Trf	♦	PY584Δ
74▼	D5340-1	07NEP	4	300m	24u†	05	2.5	15			20†	30m	120m	50k		Ref,Trn,Trf	♦	PY585Δ
75▼	D5340-5	07NEP	4	300m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY589d△
76▼	D5340-6	07NEP	4	300m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY589d△
77▼	H5540-1	07NEP	4	500m	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY589d△
78▼	H5540-5	07NEP	4	500m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY589Δ
79▼	H5540-6	07NEP	4	500m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY589Δ
80▼	L5640-1	07NEP	4	600m	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY589Δ
81▼	L5640-5	07NEP	4	600m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY589b△
82▼	L5640-6	07NEP	4	600m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY589b△
83▼	M5740-1	07NEP	4	750m	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY589b△
84▼	M5740-5	07NEP	4	750m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY589c△
85▼	M5740-6	07NEP	4	750m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY589c△
86▼	T5140-1	07NEP	4	1.0	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY589c△
87▼	T5140-5	07NEP	4	1.0	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY589a△
88▼	T5140-6	07NEP	4	1.0	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY589a△
89▼	K5560-1	07NEP	6	500m	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY589a△
90▼	K5560-5	07NEP	6	500m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY620Δ
91▼	K5560-6	07NEP	6	500m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY620Δ
92▼	R5760-1	07NEP	6	750m	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY620Δ
93▼	R5760-5	07NEP	6	750m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY620a△
94▼	R5760-6	07NEP	6	750m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY620a△
95▼	F5380-1	07NEP	8	300m	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY620a△
96▼	F5380-5	07NEP	8	300m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY592Δ
97▼	F5380-6	07NEP	8	300m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY592Δ
98▼	P5580-1	07NEP	8	500m	24u†	05	2.5	15			20†	75m	75m	50k		FE		PY592Δ
99▼	P5580-5	07NEP	8	500m	28u†	26	3.0	15			20†	100m	100m	50k		FE		PY592a△
100▼	P5580-6	07NEP	8	500m	30u†	28	4.0	15			20†	50m	50m	50k		FE		PY592a△
101▼	741-03	07NEPV	3*	250m		05*	2.7	10	25	100	20†	75m	75m	50k		FE		PY592a△
102▼	65025	07NEPV	3*	250m	150u	18	2.5	15	30	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB35	PY455a△
103▼	LCD106	07NEPV	3*	500m		1	3.0	10	30	100	20	150m☐	150m☐	50k	11	Ref,Trn,Trf		PY513Δ
104▼	LCD1654R-06	07NEPV	3*	500m	20u	05	3.0	10	30	1.0k	20†	30m	120m	50k		FE Lo Bat		PY583Δ
105▼	H5535-1	07NEPV	3*	500m	24u†	05	2.5	15			20†	50m☐	300m☐	50k		FE;Ref	♦	PY333Δ
106▼	SX140-1	07NEPV	3*	500m	24u†	05	2.5	15			20†	100m	100m	50k		FE		PY588Δ
107▼	H5535-5	07NEPV	3*	500m	28u†	26	3.0	15			20†	100m	100m	50k				PY588Δ
108▼	SX140-5	07NEPV	3*	500m	28u†	26	3.0	15			20†	50m	50m	50k		FE		PY588Δ
109▼	H5535-6	07NEPV	3*	500m	30u†	28	4.0	15			20†	50m	50m	50k				PY588Δ
110▼	SX140-6	07NEPV	3*	500m	30u†	28	4.0	15			20†	75m	75m	50k		FE		PY588Δ
											20†	75m	75m	50k				PY588Δ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

36. DISPLAY: LIQUID CRYSTAL

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. (4)PWR CONSUMP & (5)TYPE No.

LINE No.	5 TYPE No.	1 TYPE OF DISPLAY	2 NO. OF DIGITS	3 CHAR. HGHT. (in)	4 MAX. PWR. CONS. Δ-/seg (W)	TEMP RNG. CODE - +	OPERATING VOLTAGE MIN. VOLT (V)	OPERATING VOLTAGE MAX. VOLT (V)	FREQ. MIN. f (Hz)	FREQ. MAX. f (Hz)	CONTRAST RATIO	RISE TIME tr (S)	DECAY TIME tf (S)	LIFE (hrs)	COL -OR	FEATURES	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1▼	LCD1654R-12	07NEPV	3*	500m	48u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY333Δ
2▼	65050	07NEPV	3*	500m	150u	18	2.5	15	30	100	20	150m☑	150m☑	50k	11	Ref,Trn,Trf		PY513Δ
3▼	L5635-1	07NEPV	3*	600m	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY588aΔ
4▼	L5635-5	07NEPV	3*	600m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY588aΔ
5▼	L5635-6	07NEPV	3*	600m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY588aΔ
6▼	LCD1655R-06	07NEPV	3*	700m	40u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY334Δ
7▼	LCD1655R-12	07NEPV	3*	700m	96u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY334Δ
8▼	M5735-1	07NEPV	3*	750m	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY588bΔ
9▼	M5735-5	07NEPV	3*	750m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY588bΔ
10▼	M5735-6	07NEPV	3*	750m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY588bΔ
11▼	65075	07NEPV	3*	750m	150u	18	2.5	15	30	100	20	150m☑	150m☑	50k	11	Ref,Trn,Trf		PY513Δ
12▼	T5135-1	07NEPV	3*	1.0	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY588cΔ
13▼	T5135-5	07NEPV	3*	1.0	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY588cΔ
14▼	T5135-6	07NEPV	3*	1.0	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY588cΔ
15▼	65100	07NEPV	3*	1.0	150u	18	2.5	15	30	100	20	150m☑	150m☑	50k	11	Ref,Trn,Trf		PY513Δ
16▼	SX162-1	07NEPV	3*	7.0	24ut	05	2.5	15			20†	100m	100m	50k				PY588dΔ
17▼	SX162-5	07NEPV	3*	7.0	28ut	26	3.0	15			20†	50m	50m	50k				PY588dΔ
18▼	SX162-6	07NEPV	3*	7.0	30ut	28	4.0	15			20†	75m	75m	50k				PY588dΔ
19▼	D5345-1	07NEPV	4*	300m	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY621bΔ
20▼	D5345-5	07NEPV	4*	300m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY621bΔ
21▼	D5345-6	07NEPV	4*	300m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY621bΔ
22▼	LCD1660R-06	07NEPV	4*	400m	15u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY339Δ
23▼	LCD1660R-12	07NEPV	4*	400m	36u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY339Δ
24▼	H5545-1	07NEPV	4*	500m	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY621aΔ
25▼	SX177-1	07NEPV	4*	500m	24ut	05	2.5	15			20†	100m	100m	50k				PY621Δ
26▼	H5545-5	07NEPV	4*	500m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY621aΔ
27▼	SX177-5	07NEPV	4*	500m	28ut	26	3.0	15			20†	50m	50m	50k				PY621Δ
28▼	H5545-6	07NEPV	4*	500m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY621aΔ
29▼	SX177-6	07NEPV	4*	500m	30ut	28	4.0	15			20†	75m	75m	50k				PY621Δ
30▼	M5745-1	07NEPV	4*	750m	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY622Δ
31▼	M5745-5	07NEPV	4*	750m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY622Δ
32▼	M5745-6	07NEPV	4*	750m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY622Δ
33▼	LCD1662R-06	07NEPV	4*	800m	65u	05	3.0	10	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY340Δ
34▼	LCD1662R-12	07NEPV	4*	800m	156u	26	7.0	20	30	1.0k	20†	50m☑	300m☑	50k		FE;Ref	♦	PY340Δ
35▼	T5145-1	07NEPV	4*	1.0	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY622aΔ
36▼	T5145-5	07NEPV	4*	1.0	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY622aΔ
37▼	T5145-6	07NEPV	4*	1.0	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY622aΔ
38#	FC003T	07NEW	4	846m	200u	55*	5.0	20				150m	200m				♦	PY252☑
39#	FW3005R	07NK	3*	157m	3.0m	56*	2.8	6.0				80m	60m				♦	PY255☑
40#	FW3006R	07NK	3*	157m	3.0m	56*	2.8	6.0				100m	80m				♦	PY256☑
41#	FW003R	07NK	3*	157m	10m	55*	3.0	20				70m	80m				♦	PY255☑
42#	FW005R	07NK	3*	157m	10m	55*	3.0	20				50m	75m				♦	PY255aØ
43#	FW006R	07NK	3*	157m	10m	55*	3.0	20				70m	80m				♦	PY256☑
44#	FW3014R	07NK	3*	197m	3.0m	56*	2.8	6.0				100m	80m				♦	PY257☑
45#	FW014R	07NK	3*	197m	10m	55*	3.0	20				70m	80m				♦	PY257☑
46#	FC002R	07NK	3*	669m	200u	55*	5.0	20				150m	200m				♦	PY251☑
47▼	741-04	07NK	4	250m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB35a	PY454aΔ
48	737-01010	07NK	4	500m		15	3.0	15	30	120	20Ø	100m	100m	30k	11	No Polarizer	EB28	PY471Δ
49	737-01020	07NK	4	500m		15	3.0	15	30	120	20Ø	100m	100m	30k	11	Textured Ref	EB28	PY471Δ
50	737-01030	07NK	4	500m		15	3.0	15	30	120	20Ø	100m	100m	30k	11	Trf	EB28	PY471Δ
51	737-01040	07NK	4	500m		15	3.0	15	30	120	20Ø	100m	100m	30k	11	Trn	EB28	PY471Δ
52	737-01050	07NK	4	500m		15	3.0	15	30	120	20Ø	100m	100m	30k	11	Smooth Ref	EB28	PY471Δ
53	739-04010	07NK	4	500m		15	3.0	20	30	300	20Ø	100m	100m	30k	11	No Polarizer	EB29	PY470Δ
54	739-04020	07NK	4	500m		15	3.0	20	30	300	20Ø	100m	100m	30k	11	Textured Ref	EB29	PY470Δ
55	739-04030	07NK	4	500m		15	3.0	20	30	300	20Ø	100m	100m	30k	11	Trf	EB29	PY470Δ
56	739-04040	07NK	4	500m		15	3.0	20	30	300	20Ø	100m	100m	30k	11	Trn	EB29	PY470Δ
57	739-04050	07NK	4	500m		15	3.0	20	30	300	20Ø	100m	100m	30k	11	Smooth Ref	EB29	PY470Δ
58	710-01	07NKW	3*	130m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17	PY450Δ
59	710-02	07NKW	3*	150m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17	PY450Δ
60	706-01	07NKW	3*	160m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17	PY448Δ
61	706-02	07NKW	3*	180m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17	PY448Δ
62	708-01	07NKW	3*	180m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17	PY449Δ
63	708-02	07NKW	3*	220m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17	PY449Δ
64	712-01	07NKW	4	160m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17b	PY452Δ
65	713-01	07NKW	4	180m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17b	PY453Δ
66	711-01	07NKW	6	120m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17a	PY451Δ
67	711-02	07NKW	6	180m		05*	2.7	10	25	100	20Ø	120m#	185m*	50k	11	FE,Ref,Trn	EB17a	PY451Δ
68	3801-210	07NL	2	300m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23	PY292
69	3801-312	07NL	2	300m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23	PY292
70	3801-313	07NL	2	300m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23	PY292
71	3802-210	07NL	2	400m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23a	PY292a
72	3802-312	07NL	2	400m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23a	PY292a
73	3802-313	07NL	2	400m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23a	PY292a
74	29D5R19	07NL	2	500m	500nΔ	15*	3.0	9.0	30	100	20	75	150	50k	11		♦	PY534Δ
75	29D7R19	07NL	2	500m	500nΔ	16*	9.0	20	30	100	20	25	75	50k	11		♦	PY534Δ
76	3803-210	07NL	2	500m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23b	PY292b
77	3803-312	07NL	2	500m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23b	PY292b
78	3803-313	07NL	2	500m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23b	PY292b
79	3804-210	07NL	2	600m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23c	PY292c
80	3804-312	07NL	2	600m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23c	PY292c
81	3804-313	07NL	2	600m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23c	PY292c
82	3805-210	07NL	4	300m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23d	PY292d
83	3805-312	07NL	4	300m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23d	PY292d
84	3805-313	07NL	4	300m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23d	PY292d
85	3806-210	07NL	4	400m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23e	PY292e
86	3806-312	07NL	4	400m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23e	PY292e
87	3806-313	07NL	4	400m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23e	PY292e
88	3807-210	07NL	4	500m	150ut	15*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23f	PY292f
89	3807-312	07NL	4	500m	150ut	15*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23f	PY292f
90	3807-313	07NL	4	500m	150ut	15*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23f	PY292f
91	3808-210	07NL	4	600m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k		FE,Trn	EB23g	PY292g
92	3808-312	07NL	4	600m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Trf	EB23g	PY292g
93	3808-313	07NL	4	600m	150ut	05*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE,Ref	EB23g	PY292g
94	3606-210	07NM	3*	400m	21u	05	4.0	7.0	30	100	20†	100m	200m		*	FE;Trn	EB24	PY224Δ
95	3606-312	07NM	3*	400m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Trf	EB24	PY224Δ
96	3606-313	07NM	3*	400m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Ref	EB24	PY224Δ
97	3607-210	07NM	3*	500m	21u	15*	4.0	17	30	100	20†	75m#	150m*	50k	*	FE;Trn	EB24a	PY224aΔ
98	3607-312	07NM	3*	500m	21u	15*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE;Trf	EB24a	PY224aΔ
99	3607-313	07NM	3*	500m	21u	15*	4.0	17	30	100	20†	75m#	150m*	50k	11	FE;Ref	EB24a	PY224aΔ
100	3608-210	07NM	3*	600m	21u	05	4.0	7.0	30	100	20†	100m	200m		*	FE;Trn	EB24b	PY224bΔ
101	3608-312	07NM	3*	600m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Trf	EB24b	PY224bΔ
102	3608-313	07NM	3*	600m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Ref	EB24b	PY224bΔ
103	45D5R03	07NM	4*	400m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12f	PY400aΔ
104	45D7R03	07NM	4*	400m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12f	PY400aΔ
105	3612-210	07NM	4*	400m	21u	05	4.0	7.0	30	100	20†	100m	200m		*	FE;Trn	EB24c	PY224cΔ
106	3612-312	07NM	4*	400m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Trf	EB24c	PY224cΔ
107	3612-313	07NM	4*	400m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Ref	EB24c	PY224cΔ
108	3613-210	07NM	4*	500m	21u	05	4.0	7.0	30	100	20†	100m	200m		*	FE;Trn	EB24d	PY224dΔ
109	3613-312	07NM	4*	500m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Trf	EB24d	PY224dΔ
110	3613-313	07NM	4*	500m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Ref	EB24d	PY224dΔ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

36. DISPLAY: LIQUID CRYSTAL

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. (4)PWR CONSUMP & (5)TYPE No.

LINE No.	5 TYPE No.	1 TYPE OF DISPLAY	2 NO. OF DIGITS	3 CHAR. HGHT. (in)	4 MAX. PWR. CONS. Δ-/seg (W)	TEMP RNG. CODE - +	OPERATING VOLTAGE MIN. VOLT (V)	OPERATING VOLTAGE MAX. VOLT (V)	FREQ. MIN. f (Hz)	FREQ. MAX. f (Hz)	CONTRAST RATIO	RISE TIME tr (S)	DECAY TIME tf (S)	LIFE (hrs)	COL -OR	FEATURES	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	3614-210	07NM	4*	600m	21u	05	4.0	7.0	30	100	20†	100m	200m		*	FE;Trn	EB24e	PY224eΔ
2	3614-312	07NM	4*	600m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Trf	EB24e	PY224eΔ
3	3614-313	07NM	4*	600m	21u	05	4.0	7.0	30	100	20†	100m	200m		11	FE;Ref	EB24e	PY224eΔ
4	85D5R11	07NM	4*	800m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY406Δ
5	85D7R11	07NM	4*	800m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	♦	PY406Δ
6	43D5R03	07NMC	3*	500m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12d	PY382bΔ
7	43D7R03	07NMC	3*	500m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12d	PY382bΔ
8	53D5R08	07NMC	3*	700m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12d	PY383bΔ
9	53D7R08	07NMC	3*	700m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12d	PY383bΔ
10	83D5R11	07NMC	3*	1.0		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12d	PY402aΔ
11	44D5R03	07NMC	4	500m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12e	PY382aΔ
12	44D7R03	07NMC	4	500m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12e	PY382aΔ
13	54D5R08	07NMC	4	700m		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12j	PY383Δ
14	54D7R08	07NMC	4	700m		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12j	PY383Δ
15	84D5R11	07NMC	4	1.0		15*	3.0	10	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12e	PY402Δ
16	84D7R11	07NMC	4	1.0		26*	7.0	20	30	150	20†	50m☑	300m☑	50k		Ref,Trn,Trf	EB12e	PY402Δ
17	MLC210-00	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k	10	FE;Trn	♦	PY539
18	MLC210-01	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k	11	FE;Trf	♦	PY539
19	MLC210-02	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k	11	FE;Ref	♦	PY539
20	MLC410-00	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k	10	FE;Trn	♦	PY539a
21	MLC410-01	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k	11	FE;Trf	♦	PY539a
22	MLC410-02	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k	11	FE;Ref	♦	PY539a
23	MLC410-03	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k	10	FE;Trn	♦	PY539a
24	MLC410-04	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k		FE;Trf	♦	PY539a
25	MLC410-05	07NP	3*	500m		15*	3.0	12	25	100	20†	100m#	150m*	50k		FE;Ref	♦	PY539a
26	3624-22	07NP	3	500m	700nt	18	4.0	15	30	100	20	100m	100m	30k	11	FE		
27	3600	07NP	3	500m	1.0ut	06	4.0	15	30	100	20	100m	100m	50k	11	FE		
28	3624-23	07NP	4*	400m	600nt	06	4.0	15	30	100	20	80m	100m	50k	11	FE		
29	3624-28	07NPE	3	500m	700nt	06	4.0	15	30	100	20	100m	100m	50k	11	FE;BAR		
30▼	C5335-1	07NPV	3*	300m	24ut	05	2.5 †	15			20†	100m	100m	50k		FE		PY587Δ
31▼	C5335-5	07NPV	3*	300m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY587Δ
32▼	C5335-6	07NPV	3*	300m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY587Δ
33▼	H2535-1	07NPV	3*	500m	24ut	05	2.5	15			20†	100m	100m	50k		FE		PY587aΔ
34▼	H2535-5	07NPV	3*	500m	28ut	26	3.0	15			20†	50m	50m	50k		FE		PY587aΔ
35▼	H2535-6	07NPV	3*	500m	30ut	28	4.0	15			20†	75m	75m	50k		FE		PY587aΔ
36▼	5201-1	07NR	1	2.0	24ut	05	2.5	15			20†	100m	100m	50k		Numeric		PY593☑
37▼	5201-5	07NR	1	2.0	28ut	26	3.0	15			20†	50m	50m	50k		Numeric		PY593☑
38▼	5201-6	07NR	1	2.0	30ut	28	4.0	15			20†	75m	75m	50k		Numeric		PY593☑
39▼	5301-1	07NR	1	3.0	24ut	05	2.5	15			20†	100m	100m	50k		Numeric		PY593a☑
40▼	5301-5	07NR	1	3.0	28ut	26	3.0	15			20†	50m	50m	50k		Numeric		PY593a☑
41▼	5301-6	07NR	1	3.0	30ut	28	4.0	15			20†	75m	75m	50k		Numeric		PY593a☑
42	41N02A	07NR	1	3.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY149☑
43	41N22	07NR	1	3.9		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY149☑
44	40NT10	07NR	1	4.0	6.0mΔ	06*	20	60		60 †		100m#	250m*			DS	♦	PY200☑
45	81N02A	07NR	1	7.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY149a☑
46	81N22	07NR	1	7.9		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY149a☑
47	34D5R02	07NR	4	350m	500nΔ	15*	3.0	9.0	30	100	20	75	150	50k	11		♦	PY426Δ
48	34D7R02	07NR	4	350m	500nΔ	16*	9.0	20	30	100	20	25	75	50k	11		♦	PY426Δ
49	3809	07NR	4	500m		15	4.0	17	30	100	20	150m#	300m*	50k			EB34	PY529☑
50	57D7R21GH	07NR	5	700m	700nΔ	18*	9.0	20	30	100	20	25	75	50k	11		♦	PY535Δ
51#	FI001R	07NRP	4	354m	40u	55*	5.0	20				150m	150m					PY253☑
52	735	07NT	3	250m		05*	2.7	3.0 †	25	100	20Ø	120m#	185m*	50k	11	Temp Display	EB17d	PY455Δ
53♦#	LC150931-100	07NW	3*	142m		16	1.5	5.0	30	1.0k		80m	200m		9	FE,Trf	♦	PY573Δ
54▼#	LC161231-101	07NW	3*	169m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY603aΔ
55♦#	LC161231-104	07NW	3*	169m		16	1.5	5.0	30	1.0k		80m	200m		9	FE,Trf	♦	PY603bΔ
56▼#	LC201131-002	07NW	3*	196m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY603Δ
57#	FAN4055D	07NW	3*	196m	4.8u	16*	1.5	8.0	20	100		100m	200m		11	FE;Trn	♦	PY384Δ
58#	FAN4055R	07NW	3*	196m	4.8u	16*	1.5	8.0	20	100		100m	200m			FE;Ref	♦	PY384Δ
59♦#	LC513031-200	07NW	3*	500m		16	3.0	6.0	30	300		100m	250m		9	FE,Trf	♦	PY580Δ
60▼#	LC150940-101	07NW	4	157m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY574Δ
61	MLC500	07NW	4	180m	1.8uΔ	05*	3.0 †		32 †		25	290m#	250m*			FE,Watch	♦	PY2Δ
62	MLC501	07NW	4	180m	1.8uΔ	05*	3.0 †		32 †		25	290m#	250m*			FE,Watch	♦	PY2aΔ
63▼#	LC201340-001	07NW	4*	181m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY604Δ
64♦#	LC201140-002	07NW	4	185m		16	1.5	5.0	30	1.0k		80m	200m		9	FE,Trf	♦	PY574aΔ
65♦#	LC201140-004	07NW	4	185m		16	1.5	5.0	30	1.0k		80m	200m		9	FE,Trf	♦	PY578Δ
66▼#	LC241151-000	07NW	5*	157m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY608Δ
67▼#	LC221352-001	07NW	5*	185m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY607Δ
68▼#	LC161260-100	07NW	6*	130m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY602Δ
69♦#	LC241156-001	07NW	6*	169m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY577Δ
70♦#	LC201156-001	07NW	6*	177m		16	1.5	5.0	30	1.0k		80m	200m		9	FE,Trf	♦	PY609aΔ
71▼#	LC201960-001	07NW	6*	177m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY606Δ
72▼#	LC241156-000	07NW	6*	177m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY609Δ
73▼#	LC221360-003	07NW	6*	185m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY607aΔ
74▼#	LC201360-000	07NW	6*	197m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY605Δ
75▼#	LC241156-102	07NW	6*	197m		16	1.5	5.0	30	1.0k		80m	200m		9	FE Trf	♦	PY609bΔ
76♦#	LC241180-002	07NW	8	150m		16	1.5	5.0	30	1.0k		80m	200m		9	FE,Trf	♦	PY579Δ
77♦#	LC201976-001	07NW	8*	189m		16	1.5	5.0	30	1.0k		80m	200m		9	FE,Trf	♦	PY575Δ
78	50AT10	14A	1	5.0	5.4mΔ	06*	20	60		60 †		100m#	250m*			DS	♦	PY202☑
79	20AT40	14A	4	2.0	800uΔ	06*	20	60		60 †		100m#	250m*			DS	♦	PY198☑
80	3702-210	16A	1	1.0		15*	4.0	17	30	100	20†	75m#	150m*	50k	*	Trn	EB13	PY330
81	3702-312	16A	1	1.0		15*	4.0	17	30	100	20†	75m#	150m*	50k	11	Trf	EB13	PY330
82	3702-313	16A	1	1.0		15*	4.0	17	30	100	20†	75m#	150m*	50k	11	Ref	EB13	PY330
83▼	5201A-1	16A	1	2.0	24ut	05	2.5	15			20†	100m	100m	50k		Alpha		PY594☑
84▼	5201A-5	16A	1	2.0	28ut	26	3.0	15			20†	50m	50m	50k		Alpha		PY594☑
85▼	5201A-6	16A	1	2.0	30ut	28	4.0	15			20†	75m	75m	50k		Alpha		PY594☑
86▼	5301A-1	16A	1	3.0	24ut	05	2.5	15			20†	100m	100m	50k		Alpha		PY594a☑
87▼	5301A-5	16A	1	3.0	28ut	26	3.0	15			20†	50m	50m	50k		Alpha		PY594a☑
88	4301	16A	1	3.0	30ut	06	15	90	30	100	15	200m	200m	50k	10	DS		
89▼	5301A-6	16A	1	3.0	30ut	28	4.0	15			20†	75m	75m	50k		Alpha		PY594a☑
90	41A01A	16A	1	3.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY149☑
91	41A21	16A	1	3.9		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY149☑
92	81A01A	16A	1	7.9		05*	18 †			500		100m#	120m*	50k		Trn,DS	♦	PY149a☑
93	81A21	16A	1	7.9		05*	18 †			500		100m#	120m*	50k		Ref,DS	♦	PY149a☑
94	3947-210	16A	4	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k	*	Trn	EB14	PY331
95	3947-312	16A	4	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k	11	Trf	EB14	PY331
96	3947-313	16A	4	500m		15*	4.0	17	30	100	20†	75m#	150m*	50k	11	Ref	EB14	PY331
97	4134	16A	4	1.0	1.0ut	06	5.0	15	30	100	20	100m	100m	50k	10$	FE;DS		
98	40AT40	16A	4	4.0	2.8mΔ	06*	20	60		60 †		100m#	250m*			DS	♦	PY199☑
99	56016	57A			300nt	26	1.8	10	30	100	20	50m	70m	10k	11	FE		
100	5832-32	57A		500m	100nt	26	1.5	8.0	30	100	20	50m	50m	10k	11	FE;MATRIX		
101	6464	57A		3.0	100nt	26	1.5	8.0	30	100	20	80m	60m	10k	11			
102	5371	57A	1	3.0	25ut	06	15	90	30	100	15	200m	200m	50k	10	DS		
103	5626-31	57A	6	400m	700nt	26	4.0	15	30	100	20	80m	60m	10k	11	FE;8x30 W/Dot		
104▼	SX147-5	57A	8	250m	12ut	26	3.0	15			20†	50m	50m	50k				PY595Δ
105▼	SX147-1	57A	8	250m	16ut	05	2.5	15			20†	100m	100m	50k				PY595Δ
106▼	SX147-6	57A	8	250m	16ut	18	4.0	15			20†	75m	75m	50k				PY595Δ
107▼	SX208-5	57A	32	284m	12ut	26	5.0 †				20†	50m	50m	50k				PY595aΔ
108▼	SX208-1	57A	32	284m	16ut	05	3.0 †				20†	20m	20m	50k				PY595aΔ
109▼	SX208-6	57A	32	284m	16ut	18	5.0 †				20†	75m	75m	50k				PY595aΔ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

37. DISPLAY: OTHER

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DIS-PLAY	2 NO. OF DIG ITS	3 CHAR. HGHT. (in)	COL -OR	D.C. VOLT (V)	D.C. CURR per seg (A)	POWER DISS. per seg	TEMP RNG. CODE - +	RESP TIME (S)	LUMINANCE Lv (fL)	LUMINANCE V SUPP. (V)	LIFE (hrs)	FEATURES	SCHEM -ATIC	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1▼	DE320	FLR	20	200m	%	5.0	500m#	2.5				5.0		Display Subsystem W/Pwr Sup		PY625
2	BDS40832PD2	GAS		260m	3	250	120m		06*			250		SELF-SCAN Sys;256ALPHA;8x32	EC18	PY214☐
3	BDS40832-200	GAS		280m	3	250	120m		05*			250		SELF-SCAN Sys;256ALPHA;8.32	EC17	PY213☐
4	BDS40832-205	GAS		280m	3	250	120m		06*			250		SELF-SCAN Sys;256ALPHA;8x32	EC19	PY215☐
5	BDS40832-208	GAS		280m	3	250	120m		06*			250		SELF-SCAN Sys;256ALPHA;8x32	EC20	PY216☐
6	BDS40832S20	GAS		280m	3	250	120m		05*			250		SELF-SCAN Sys;256ALPHA;8x32	EC17	PY213☐
7	SP334	GAS	*	330m	3	180	180u	24m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY10c☐
8	NL4998	GAS	1	310m	3	170	2.0m#		47					Readout Tube;Num		PY270Ø
9	NL7009	GAS	1	310m	3	170	1.2m#		47					Readout Tube;Num		PY272Ø
10	NL7977/4032	GAS	1	310m	3	170	1.4m#		47					Readout Tube;Num		PY271Ø
11	NL8502	GAS	1	310m	3	120	1.1m#	30m#						Readout Tube		
12	NL8502/4021	GAS	1	310m	3	170	1.4m#		47					Readout Tube;Num		PY272Ø
13	B5853	GAS	1	510m	3	200	14m	250m#	27*	15u	100m§	200		NIXIE;Numerical Indicator	EC10	PY186Ø
14	B5853S	GAS	1	510m	3	200	14m	250m#	27*	15u	100m§	200		Nixie Num Indicator	EC10	PY186aØ
15	B5853ST	GAS	1	510m	3	200	14m	250m#	27*	15u	100m§	200		Nixie Num Indicator	EC10	PY186bØ
16	B-5866	GAS	1	510m	3	170	12m		27*	2.0m	200m	170		NIXIE;Plus/Minus	EC24	PY315Ø
17	B-5866S	GAS	1	510m	3	170	12m		27*	2.0m	200m	170		NIXIE;Plus/Minus	EC24	PY315aØ
18	B-5866ST	GAS	1	510m	3	170	12m		27*	2.0m	200m	170		NIXIE;Plus/Minus	EC24	PY315bØ
19	B-5870	GAS	1	510m	3	200	3.0m	500m#	27*	15u	200	200		NIXIE;Num Indicator	EC10	PY186Ø
20	B-5870S	GAS	1	510m	3	200	3.0m	500m#	27*	15u	200	200		NIXIE;NUM Indicator	EC10	PY186aØ
21	B-5870ST	GAS	1	510m	3	200	3.0m	500m#	27*	15u	200	200		NIXIE;Num Indicator	EC10	PY186bØ
22	AR01550	GAS	1	550m	3	170	350u		05*	20uØ				7 Seg;Num	EC49	PY505Δ
23	NL840	GAS	1	600m	3	170	2.5m#	430m#						Readout Tube		
24	NL809	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Lt Hand Dec		PY270bØ
25	NL841	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Lt Hand Dec		PY278Ø
26	NL842	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Rt Hand Dec		PY278Ø
27	NL843	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Plus or Minus		PY278Ø
28	NL848	GAS	1	610m	3	170	3.0m#		47					Readout Tube;2 Decimals		PY278Ø
29	NL900	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Num		PY279Ø
30	NL901	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Lt Hand Dec		PY279Ø
31	NL902	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Rt Hand Dec		PY279Ø
32	NL903	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Plus or Minus		PY279Ø
33	NL904	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Num		PY280Ø
34	NL905	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Lt Hand Dec		PY280Ø
35	NL5440	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Num		PY276Ø
36	NL5440A	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Num		PY277Ø
37	NL5441	GAS	1	610m	3	170	3.0m#		47					Readout Tube;2 Decimals		PY276Ø
38	NL5441A	GAS	1	610m	3	170	3.0m#		47					Readout Tube;2 Decimals		PY277Ø
39	NL5442	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Plus or Minus		PY276Ø
40	NL5442A	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Plus or Minus		PY277Ø
41	NL5992	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Plus or Minus		PY270aØ
42	NL8421/5092	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Num		PY273Ø
43	NL8422/5991	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Num		PY270aØ
44	NL8754/840	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Num		PY278Ø
45	NL50911	GAS	1	610m	3	170	3.0m#		47					Readout Tube;Plus or Minus		PY273Ø
46	NL807	GAS	1	808m	3	170	4.5m#		47					Readout Tube;Num		PY281aØ
47	NL821	GAS	1	808m	3	170	4.5m#		47					Readout Tube;Lt Hand Dec		PY281aØ
48	NL6034	GAS	1	808m	3	170	4.0m#		47					Readout Tube;Plus or Minus		PY273aØ
49	NL8423/6091	GAS	1	808m	3	170	4.0m#		47					Readout Tube;Num		PY273aØ
50	SP101	GAS	1	1.0	3	180	700u	95m	07*	20u	225	180	100k	7 Segm,Planar	EC41	PY190☐
51	SP102	GAS	1	1.0	3	180	700u	95m	07*	20u	225	180	100k	7 Segment,Planar	EC42	PY461☐
52	NL8091	GAS	1	1.3	3	170	6.0m#		47					Readout Tube;Num		PY274Ø
53	NL934	GAS	1	2.0	3	170	10m#		47					Readout Tube;Lt Hand Dec		PY282Ø
54	NL7037	GAS	1	2.0	3	170	10m#		47					Readout Tube;Num		PY282Ø
55	NL7094	GAS	1	2.0	3	170	7.0m#		47					Readout Tube;Num		PY274aØ
56	SP331	GAS	1*	330m	3	180	180u	24m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY10☐
57	SM851	GAS	1*	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC44	PY9☐
58	SM855	GAS	1*	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC45	PY9☐
59	SP152	GAS	1*	550m	3	180	330u	45m	07*	20u	200	180	100k	7 Segm,Planar;Num;Clock	EC38	PY12a☐
60	SP351	GAS	1*	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY11☐
61▼	HB332	GAS	2	330m	3	170	520u	485m	07		225	170	100k	7 Segment;Planar,Multiplex	EC64	PY10a☐
62	SP332	GAS	2	330m	3	180	180u	24m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY10a☐
63	AR02550	GAS	2	550m	3	170	350u		05*	20uØ				7 Seg;Num	EC50	PY505aΔ
64▼	HB352	GAS	2	550m	3	170	900u	800m	07		225	170	100k	7 Segment;Planar,Multiplex	EC64	PY11a☐
65	SM852	GAS	2	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC44a	PY9a☐
66	SM856	GAS	2	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC45a	PY9a☐
67	SP252	GAS	2	550m	3	180	300u	42m	07*	20u	210	180	100k	14 Segm,Planar,Apha Num	EC40	PY191☐
68	SP352	GAS	2	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY11a☐
69	SM854	GAS	2*	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC44c	PY9c☐
70	SM858	GAS	2*	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC45c	PY9c☐
71	SP354	GAS	2*	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY11c☐
72▼	HB333	GAS	3	330m	3	170	520u	485m	07		225	170	100k	7 Segment;Planar,Multiplex	EC64	PY10b☐
73	SP333	GAS	3	330m	3	180	180u	24m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY10b☐
74	AR03550	GAS	3	550m	3	170	350u		05*	20uØ				7 Seg;Num	EC51	PY505bΔ
75▼	HB353	GAS	3	550m	3	170	900u	800m	07		225	170	100k	7 Segment;Planar,Multiplex	EC64	PY11b☐
76	SM853	GAS	3	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC44b	PY9b☐
77	SM857	GAS	3	550m	3	180	330u	45m	05*	20u	210	180	100k	7 Segm,Planar;Num w/Logic	EC45b	PY9b☐
78	SP353	GAS	3	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Segm,Planar;Num	EC39	PY11b☐
79	SP151	GAS	3*	500m	3	180	300u	42m	07*	20u	200	180	100k	7 Segm,Planar;Num;Clock	EC38	PY12☐
80	SP355	GAS	3*	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Segment,Planar,Numeric	EC39	PY192a☐
81	SP357	GAS	3*	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Seg,Planar,Num,Clock	EC38	PY192b☐
82▼	SP324	GAS	4	250m	3	180	155u	145m	0A		200	180	25k	Cathode Multiplex Op;7 Seg		PY☐
83	AR04501	GAS	4	500m	3	180	350u			20u	50	70	10k	7-Seg Timer W/Annunciators	EC47	PY354☐
84	AR04502	GAS	4	500m	3	180	350u	6.0m	47%	20u	80	70	18k	7-Seg Timer W/Colon	EC48	PY355☐
85	AR04550	GAS	4	550m	3	170	350u		05*	20uØ				7 Seg;Num;W Pol	EC52	PY505cΔ
86▼	HB356	GAS	4	550m	3	170	900u	800m	07		225	170	100k	7 Segment;Planar,Multiplex	EC64	PY11d☐
87	SP358	GAS	4	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Seg,Planar,Num,Clock	EC38	PY192c☐
88	SP421	GAS	4	1.0	3	180	2.7m	390m	05	20u	110	200	50k	7 Segment,Planar,Clock	EC37	PY432Δ
89♦	SP431	GAS	4	2.0	3	200	5.0m	735m	05	20u	180	200	50k	7 Segment,±Sign,Colon	EC65	PY610☐
90	SP356	GAS	4*	550m	3	180	330u	45m	07*	20u	210	180	100k	7 Segment,Planar,Numeric	EC39	PY192☐
91▼	SP325	GAS	5	250m	3	180	155u	145m	0A		200	180	25k	Cathode Multiplex Op;7 Seg		PY☐
92	AR05550	GAS	5	550m	3	170	350u		05*	20uØ				7 Seg;Num;W Pol	EC53	PY505dΔ
93	BF06570	GAS	6	500m	3	220	1.5m		05*		50 Ø	220		PANAPLEX;7Seg,Num	EC27	PY243a☐
94	C6009	GAS	6	500m	3	220	1.5m		05*	960u	50	220		PANAPLEX;7 Seg,Num	EC12	PY206☐
95♦	SP491	GAS	6	700m	3	200	3.2m	510m	05	20u	125	200	50k	7 Segment;Planar;Numeric	EC66	PY612☐
96	BR09471C	GAS	8	400m	3	200	875u		05*	200u	50	200		PANAPLEX;7/9 Seg,Num	EC11k	PY205k☐
97	BA13400-08R	GAS	8	500m	3	200	900u		05*	240u	50	200		PANAPLEX;14 Seg,Num	EC25	PY316☐
98	BF08771	GAS	8	700m	3	200	4.0m		05*		115 Ø	200		PANAPLEX;7Seg,Num	EC28	PY318☐
99	BR09250M	GAS	9	200m	3	200	325u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11	PY205☐
100	AR09250	GAS	9	250m	2	180	300u		05*		50 Ø	70	10k	Numeric;7 Segment		PY162a△
101	BR09253	GAS	9	250m	3	200	300u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11b	PY205b☐
102	BR12259	GAS	9	250m	3	200	325u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11d	PY205d☐
103	AR09450	GAS	9	400m	2	180	600u		05*		50 Ø	70	10k	Numeric;7 Segment;Commas		PY162c△
104	BR09450	GAS	9	400m	3	200	875u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11j	PY205j☐
105	BR10250M	GAS	10	200m	3	200	350u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11a	PY205a☐
106	BR12261	GAS	11	250m	3	200	375u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11e	PY205e☐
107	AR11450	GAS	11	400m	2	180	600u		05*		50 Ø	70	10k	Numeric;7 Segment;Commas		PY162d△
108	BR11470C	GAS	11	400m	3	200	925u		05*	200u	50	200		PANAPLEX;7/9 Seg,Num	EC11m	PY205m☐
109	BR12250	GAS	12	250m	3	200	400u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11c	PY205c☐
110	BR13251	GAS	12	250m	3	200	425u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11f	PY205f☐

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

37. DISPLAY: OTHER

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DIS-PLAY	2 NO. OF DIG ITS	3 CHAR. HGHT. (in)	COL -OR	D.C. VOLT (V)	D.C. CURR per seg (A)	POWER DISS. per seg	TEMP RNG. CODE - +	RESP TIME (S)	LUMINANCE Lv (fL)	LUMINANCE V SUPP. (V)	LIFE (hrs)	FEATURES	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	BR16254	GAS	12	250m	3	200	500u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11h	PY205h☑
2	AR13451	GAS	12	400m	2	180	600u		05*		50 Ø	70	10k	Numeric;7 Segment;Commas		PY162cΔ
3	BR13451	GAS	12	400m	3	200	975u		05*	200u	50	200		PANAPLEX;7/9 Seg.Num	EC11n	PY205n☑
4	AR16252	GAS	16	250m	3	180	350u		05*		50 Ø	70	10k	5700-6500 Angstroms		PY283Δ
5	BR16252	GAS	16	250m	3	200	500u		05*	200u	50	200		PANAPLEX;7 Seg,Num	EC11g	PY205g☑
6	BR16452	GAS	16	400m	3	200	1.0m		05*	200u	50	200		PANAPLEX;7/9 Seg.Num	EC11p	PY205p☑
7	SSD1000-0030	GAS	16	400m	3	250	30m#		05*		50	250		Self-Scan Sys;Alph	EC15	PY210☑
8	SSD1000-0039	GAS	16	400m	3	250	30m#		05*		50	250		SELF-Scan Sys,w/o Char Gen	EC34	PY210☑
9	SSD1000-0041	GAS	16	400m	3	250	30m#		05*		50	250		Self-Scan Sys;Alph w/Mem	EC15a	PY210a☑
10	SSD1000-0061	GAS	16	400m	3	250	30m#		05*		50	250		Self-Scan Sys;Alph w/Mem	EC15b	PY210a☑
11	SSD1000-0070	GAS	16	400m	3	250	30m#		05*		50	250		Self-Scan Sys;Alph w/Mem	EC15c	PY210b☑
12	SP452	GAS	16	500m	3	180	830u	130m	05	20u	105	200	50k	14 Segment, Planar	EC43	PY462Δ
13	SA252	GAS	16	550m	3	180	1.6m	16m	07	20u	50	180	50k	14 Seg Alph w/uProcessor		
14	BA16701	GAS	16	700m	3	200	3.3m		05*	150u	50	200		PANAPLEX;14 Seg,Num	EC26	PY317☑
15	3000-01-032G	GAS	16♦	210m	5	280	200u		05*	15u☑	25 Ø		50k	2 Line;ASCII,Panel	EC22	PY463b
16	3000-01-032N	GAS	16♦	210m	3	240	200u		05*	15u☑	45 Ø		50k	2 Line;ASCII,Panel	EC22	PY463b
17	3000-01-064G	GAS	16♦	210m	5	280	200u		05*	15u☑	25 Ø		50k	4 Line;ASCII,Panel	EC22	PY463e
18	3000-01-064N	GAS	16♦	210m	3	240	200u		05*	15u☑	45 Ø		50k	4 Line;ASCII,Panel	EC22	PY463e
19	3001-01-032G	GAS	16♦	330m	5	280	200u		05*	15u☑	25 Ø		50k	2 Line;ASCII,Panel	EC22	PY463d
20	3001-01-032N	GAS	16♦	330m	3	240	200u		05*	15u☑	45 Ø		50k	2 Line;ASCII,Panel	EC22	PY463d
21	3100-01-032G	GAS	16♦	330m	5	290	300u		05*	15u☑	25 Ø		50k	2 Line;ASCII,Panel	EC22	PY463c
22	3100-01-032N	GAS	16♦	330m	3	290	300u		05*	15u☑	30 Ø		50k	2 Line;ASCII,Panel	EC22	PY463c
23	3100-01-064G	GAS	16♦	330m	5	290	300u		05*	15u☑	25 Ø		50k	4 Line;ASCII,Panel	EC22	PY463f
24	3100-01-064N	GAS	16♦	330m	3	290	300u		05*	15u☑	30 Ø		50k	4 Line;ASCII,Panel	EC22	PY463f
25	C4103	GAS	16†	200m	3	250	20m#		05*		633 *	250		Self Scan Sys W/64 Char Gen	EC30	PY320☑
26	SII0120-0030	GAS	20	650m	3	250	88m#		05*		50	250		Self Scan Sys W/64 Char Gen	EC21	PY217☑
27	SII0120-0039	GAS	20	650m	3	250	88m#		05*		50	250		Self Scan Sys W/O Char Gen	EC21a	PY217☑
28	C4101C	GAS	24	470m	3	250	35m#		06*		65	250		Self Scan Sys;24 Alph Num	EC29b	PY319☑
29	SSD0132-0030	GAS	32	200m	3	250	30m#		05*		40	250		Self-Scan Sys;Alph	EC15d	PY210☑
30	SSD0132-0039	GAS	32	200m	3	250	30m#		05*		40	250		SELF-Scan Sys,w/o Char Gen	EC32	PY210☑
31	SSD0132-0040	GAS	32	200m	3	250	30m#		05*		40	250		Self-Scan Sys;Alph w/Mem	EC15e	PY210a☑
32	SSD0132-0060	GAS	32	200m	3	250	30m#		05*		40	250		Self-Scan Sys;Alph w/Mem	EC15f	PY210a☑
33	SSD0132-0070	GAS	32	200m	3	250	30m#		05*		40	250		Self-Scan Sys;Alph w/Mem	EC15g	PY210b☑
34	SSD0132-0081	GAS	32	200m	3	250	30m#		05*			250		SELF-Scan Sys,Alpha	EC33	PY322☑
35	BDS40832-201	GAS	32	280m	3	250	120m		05*			250		SELF-Scan Sys;256Alpha;8x32	EC20	PY216
36	BDS40832-209	GAS	32	280m	3	250	120m		06*			250		SELF-Scan Sys;256Char;ASCII	EC20	PY216☑
37	3200-01-032G	GAS	32	330m	5	280			05*	15u☑			50k	1 Line;ASCII,Panel	EC22	PY463a
38	3200-01-032N	GAS	32	330m	3	240			05*	15u☑			50k	1 Line;ASCII,Panel	EC22	PY463a
39	C4101B	GAS	32♦	190m	3	250	35m#		06*		65	250		Self Scan Sys;3X32 AlphNum	EC29a	PY319☑
40	3000-01-128G	GAS	32♦	210m	5	280	400u		05*	15u☑	25 Ø		50k	4 Line;ASCII,Panel	EC22	PY463j
41	3000-01-128N	GAS	32♦	210m	3	240	400u		05*	15u☑	45 Ø		50k	4 Line;ASCII,Panel	EC22	PY463j
42	3000-01-256G	GAS	32♦	210m	5	280	400u		05*	15u☑	25 Ø		50k	8 Line;ASCII,Panel	EC22	PY463m
43	3000-01-256N	GAS	32♦	210m	3	240	400u		05*	15u☑	45 Ø		50k	8 Line;ASCII,Panel	EC22	PY463m
44	3000-01-384G	GAS	32♦	210m	5	280	400u		05*	15u☑	25 Ø		50k	12 Line;ASCII,Panel	EC22	PY463r
45	3000-01-384N	GAS	32♦	210m	3	240	400u		05*	15u☑	45 Ø		50k	12 Line;ASCII,Panel	EC22	PY463r
46	3000-01-512G	GAS	32♦	210m	5	280	400u		05*	15u☑	25 Ø		50k	16 Line;ASCII,Panel	EC22	PY463t
47	3000-01-512N	GAS	32♦	210m	3	240	400u		05*	15u☑	45 Ø		50k	16 Line;ASCII,Panel	EC22	PY463t
48	3100-01-128G	GAS	32♦	260m	5	290	600u		05*	15u☑	25 Ø		50k	4 Line;ASCII,Panel	EC22	PY463k
49	3100-01-128N	GAS	32♦	260m	3	290	600u		05*	15u☑	30 Ø		50k	4 Line;ASCII,Panel	EC22	PY463k
50	3100-01-256G	GAS	32♦	260m	5	290	600u		05*	15u☑	25 Ø		50k	8 Line;ASCII,Panel	EC22	PY463n
51	3100-01-256N	GAS	32♦	260m	3	290	600u		05*	15u☑	30 Ø		50k	8 Line;ASCII,Panel	EC22	PY463n
52	C4101A	GAS	32♦	270m	3	250	35m#		06*		65	250		Self Scan Sys;2X32 AlphNum	EC29	PY319☑
53	BDS40832-206	GAS	32♦	280m	3	250	120m		06*		183 *	250		Self Scan Sys;8X32 Char	EC19	PY215☑
54	SII0140-0030	GAS	40	260m	3	250	20m#	125m	06*		44	250		Self Scan Sys W/64 Char Gen	EC36	PY379
55	SII0140-0039	GAS	40	260m	3	250	20m#	125m	06*		44	250		Self Scan Sys W/O Char Gen	EC36a	PY379
56	SII0640PD2	GAS	40♦	260m	3	250	70m#		06*		150 *	250		Self Scan Sys;6X40 Char	EC31	PY321☑
57	SII1240PD2	GAS	40♦	260m	3	250	200m#	104m	06*		50	250		Self-Scan Sys;12X40 Char	EC35	PY378
58	3000-01-320G	GAS	40♦	270m	5	280	500u		05*	15u☑	25 Ø		50k	8 Line;ASCII,Panel	EC22	PY463p
59	3000-01-320N	GAS	40♦	270m	3	240	500u		05*	15u☑	45 Ø		50k	8 Line;ASCII,Panel	EC22	PY463p
60	3000-01-480G	GAS	40♦	270m	5	280	500u		05*	15u☑	25 Ø		50k	12 Line;ASCII,Panel	EC22	PY463s
61	3000-01-480N	GAS	40♦	270m	3	240	500u		05*	15u☑	45 Ø		50k	12 Line;ASCII,Panel	EC22	PY463s
62	3000-01-960G	GAS	40♦	270m	5	280	500u		05*	15u☑	25 Ø		50k	24 Line;ASCII,Panel	EC22	PY463u
63	3000-01-960N	GAS	40♦	270m	3	240	500u		05*	15u☑	45 Ø		50k	24 Line;ASCII,Panel	EC22	PY463u
64	3200-01-080G	GAS	40♦	270m	5	280	500u		05*	15u☑	25 Ø		50k	2 Line;ASCII,Panel	EC22	PY463g
65	3200-01-080N	GAS	40♦	270m	3	240	500u		05*	15u☑	45 Ø		50k	2 Line;ASCII,Panel	EC22	PY463g
66	3200-01-120G	GAS	40♦	270m	5	280	500u		05*	15u☑	25 Ø		50k	3 Line;ASCII,Panel	EC22	PY463h
67	3200-01-120N	GAS	40♦	270m	3	240	500u		05*	15u☑	45 Ø		50k	3 Line;ASCII,Panel	EC22	PY463h
68	3200-01-320G	GAS	80♦	210m	5	280			05*	15u☑			50k	4 Line;ASCII,Panel	EC22	PY463q
69	3200-01-320N	GAS	80♦	210m	3	240			05*	15u☑			50k	4 Line;ASCII,Panel	EC22	PY463q
70	15-15	INC			10	1.5	15m	22m		5.0m	60m$	1.5	800	Micro-miniature Lamp		PY128aØ
71	30-30	INC			10	3.0	30m	90m		7.0m	250m$	3.0	1.0k	Micro-miniature Lamp		PY128bØ
72	60-20	INC			10	6.0	20m	120m		10m	400m$	6.0	2.0k	Micro-miniature Lamp		PY128cØ
73	L12-12	INC			10	1.2	12m	14m		5.0m	45m$	1.2	1.0k	Micro-miniature Lamp		PY128Ø
74	L15-30	INC			10	1.5	30m	45m		7.0m	160m$	1.5	1.0k	Micro-miniature Lamp		PY128Ø
75	L15-45	INC			10	1.5	45m	67m		10m	220m$	1.5	1.0k	Micro-miniature Lamp		PY128Ø
76	03-15DP	INC	1		10	1.5	7.5	11m			700	1.5	50k	Decimal Pt	♦	PY130a☑
77	04-30DP	INC	1		10	3.0	9.0m	27m		14m	1.4	3.0	100k	Decimal Pt	♦	PY130c☑
78	06-30DP	INC	1		10	3.0	9.0m	27m		14m	1.4	3.0	100k	Decimal Pt	♦	PY130e☑
79	06-40DP	INC	1		10	4.0	14m	56m		60m	9.0k	4.0	100k	Decimal Pt	♦	PY130e☑
80	06-50DP	INC	1		10	5.0	17m	85m		45m	9.0k	5.0	100k	Decimal Pt	♦	PY130e☑
81	08-50DP	INC	1		10	5.0	17m	85m		45m	7.0k	5.0	100k	Decimal Pt	♦	PY130g☑
82	04-30PM	INC	1	156m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Plus/Minus	♦	PY130b☑
83	06-30PM	INC	1	156m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Plus/Minus	♦	PY130d☑
84	06-40PM	INC	1	156m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Plus/Minus	♦	PY130d☑
85	06-50PM	INC	1	156m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Plus/Minus	♦	PY130d☑
86	DIP630PM	INC	1	156m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Plus/Minus	♦	PY132☑
87	DIP640PM	INC	1	156m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Plus/Minus	♦	PY132☑
88	DIP650PM	INC	1	156m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Plus/Minus	♦	PY132☑
89	03-30	INC	1	167m	10	3.0	14m	42m	5A*		7.0k	3.0	50k	7 Segm Digit	♦	PY130☑
90	03-15	INC	1	187m	10	1.5	8.0m	12m		18m	700	1.5	50k	Digit	♦	PY130☑
91	03-15PM	INC	1	187m	10	1.5	8.0m	12m		18m	700	1.5	50k	Plus/Minus	♦	PY130☑
92	04-40	INC	1	225m	10	4.0	12m	48m	5A*		9.0k	4.0	100k	7 Segm Digit	♦	PY130b☑
93	04-40DP	INC	1	225m	10	4.0	10m	40m	5A*		9.0k	4.0	100k	Decimal Pt	♦	PY130c☑
94	04-40PM	INC	1	225m	10	4.0	12m	48m	5A*		9.0k	4.0	100k	Plus/Minus	♦	PY130b☑
95	04-50	INC	1	225m	10	5.0	12m	60m	5A*		9.0k	5.0	100k	7 Segm Digit	♦	PY130b☑
96	04-50DP	INC	1	225m	10	5.0	13m	65m	5A*		9.0k	5.0	100k	Decimal Pt	♦	PY130c☑
97	04-50PM	INC	1	225m	10	5.0	12m	60m	5A*		9.0k	5.0	100k	Plus/Minus	♦	PY130b☑
98	O-43	INC	1	225m	10	3.0	8.0m	24m	5A*		1.4k	3.0	100k	Alph;16 Segm	♦	PY129☑
99	04-30	INC	1	250m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Digit	♦	PY130b☑
100	08-50PM	INC	1	250m	10	5.0	17m	85m		24m	7.0k	5.0	100k	Plus/Minus	♦	PY130f☑
101	DIP850PM	INC	1	250m	10	5.0	18m	90m		24m	7.0k	5.0	100k	Plus/Minus	♦	PY132a☑
102	O43	INC	1	250m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Alph	♦	PY129☑
103	06-L50	INC	1	300m	10	5.0	15m	75m	5A*		4.5k	5.0	100k	7 Segm Digit	♦	PY130d☑
104	06-L50PM	INC	1	300m	10	5.0	15m	75m	5A*		4.5k	5.0	100k	Plus/Minus	♦	PY130d☑
105	O-63	INC	1	300m	10	3.0	8.0m	24m	5A*		1.4k	3.0	100k	ALPH;16 Segm	♦	PY129a☑
106	O-64	INC	1	300m	10	4.0	17m	68m	5A*		9.0k	4.0	100k	Alph;16 Segm	♦	PY129a☑
107	O-65	INC	1	300m	10	5.0	18m	90m	5A*		9.0k	5.0	100k	Alph;16 Segm	♦	PY129a☑
108	CM5-5	INC	1	308m	%	4.0	16m	64m	58*	40m	8.0k	4.0	200k	7 Seg;Alph Num	EC23	PY126☑
109	CM5-11	INC	1	308m	%	4.0	16m	64m	58*	40m	8.0k	4.0	200k	7 Seg;Alph Num	EC23a	PY127☑
110	CM5-12	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23a	PY127☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

37. DISPLAY: OTHER

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DIS-PLAY	2 NO. OF DIG ITS	3 CHAR. HGHT. (in)	COL -OR	D.C. VOLT (V)	D.C. CURR per seg (A)	POWER DISS. per seg	TEMP RNG. CODE - +	RESP TIME (S)	LUMINANCE Lv (fL)	LUMINANCE V SUPP. (V)	LIFE (hrs)	FEATURES	SCHEM-ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	CM5-21	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23c	PY303☑
2	CM5-22	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23c	PY303☑
3	CM5-23	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23b	PY302☑
4	CM5-27	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23	PY126☑
5	CM5-29	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23b	PY302☑
6	CM5-31	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23c	PY303☑
7	CM5-32	INC	1	308m		4.0	16	64m	58*	40m	8.0k	4.0		7 Seg,Alph,Num	EC23c	PY303☑
8	5136	INC	1	310m	10	4.0	15m	60m	58		4.0k		100k	7 Seg. Num	♦	PY493☑
9	06-30	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Digit	♦	PY130d☑
10	06-30EW	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	East/West	♦	PY131a☑
11	06-30LR	INC	1	312m	10	3.0	8.0m	24m	5A*		1.4k	3.0	100k	Left/Right	♦	PY131c☑
12	06-30NS	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	News Readout	EC9	PY131☑
13	06-30XY	INC	1	312m	10	3.0	8.0m	24m	5A*		1.4k	3.0	100k	X-Y(Direction)	♦	PY131b☑
14	06-40	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Digit	♦	PY130d☑
15	06-40EW	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	East/West	♦	PY131a☑
16	06-40LR	INC	1	312m	10	4.0	17m	68m	5A*		9.0k	4.0	100k	Left/Right	♦	PY131c☑
17	06-40NS	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	News Readout	EC9	PY131☑
18	06-40XY	INC	1	312m	10	4.0	17m	68m	5A*		9.0k	4.0	100k	X-Y(Direction)	♦	PY131b☑
19	06-50	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Digit	♦	PY130d☑
20	06-50EW	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	East/West	♦	PY131a☑
21	06-50LR	INC	1	312m	10	5.0	18m	90m	5A*		9.0k	5.0	100k	Left/Right	♦	PY131c☑
22	06-50NS	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	News Readout	EC9	PY131☑
23	06-50XY	INC	1	312m	10	5.0	18m	90m	5A*		9.0k	5.0	100k	X-Y(Direction)	♦	PY131b☑
24	06-L50EW	INC	1	312m	10	5.0	15m	75m	5A*		4.5	5.0	100k	East/West	♦	PY131a☑
25	06-L50NS	INC	1	312m	10	5.0	15m	75m	5A*		4.5	5.0	100k	North/South	♦	PY131☑
26	DIP630	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Digit	♦	PY132☑
27	DIP631L	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Digit w/L.H. Dec Pt	♦	PY132☑
28	DIP631R	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Digit w/R.H. Dec.Pt	♦	PY132☑
29	DIP632	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Digit w/Colon	♦	PY132☑
30	DIP640	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Digit	♦	PY132☑
31	DIP641L	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Digit w/L.H. Dec.Pt	♦	PY132☑
32	DIP641R	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Digit w/R.H. Dec Pt	♦	PY132☑
33	DIP642	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Digit w/Colon	♦	PY132☑
34	DIP650	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Digit	♦	PY132☑
35	DIP651L	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Digit w/L.H. Dec.Pt	♦	PY132☑
36	DIP651R	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Digit w/R.H. Dec.Pt	♦	PY132☑
37	DIP652	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Digit w/Colon	♦	PY132☑
38	MD630	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Digit	♦	PY134☑
39	MD640	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Digit	♦	PY134☑
40	MD650	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Digit	♦	PY134☑
41	O63	INC	1	312m	10	3.0	8.0m	24m		18m	1.4k	3.0	100k	Alph	♦	PY129a☑
42	O64	INC	1	312m	10	4.0	17m	68m		16m	9.0k	4.0	100k	Alph	♦	PY129a☑
43	O65	INC	1	312m	10	5.0	18m	90m		24m	9.0k	5.0	100k	Alph	♦	PY129a☑
44♦	3015FBM10	INC	1	360m	10	5.0	10m	50m	58		1.7k	5.0	100k	7 Seg,Num	♦	PY135☑
45♦	3015FBM15	INC	1	360m	10	5.0	15m	75m	58		4.5k	5.0	100k	7 Seg,Num	♦	PY135☑
46▼	3015FBM20	INC	1	360m	10	5.0	20m	100m	58		5.5k	5.0	100k	7 Seg;Num	♦	PY135☑
47♦	3015FBM	INC	1	360m	10	5.0	8.0m	40m	58		700	5.0	250k	7 Seg,Num	♦	PY135☑
48♦	3015FBN10	INC	1	360m	10	5.0	10m	50m	58		1.7k	5.0	100k	7 Seg,Num	♦	PY135a☑
49▼	3015FBN15	INC	1	360m	10	5.0	15m	75m	58		4.5k	5.0	100k	7 Seg;Num		
50▼	3015FBN20	INC	1	360m	10	5.0	20m	100m	58		5.5k	5.0	100k	7 Seg;Num	♦	PY135a☑
51♦	3015FBN	INC	1	360m	10	5.0	8.0m	40m	58		700	5.0	250k	7 Seg,Num	♦	PY135a☑
52	3015G10	INC	1	360m	10	5.0	10m	50m			1.7k	5.0	100k	Plus,Minus,One,Decimal	♦	PY136☑
53	3015G	INC	1	360m	10	5.0	8.0m	40m	58		700		250k	Plus,Minus,One Decimal	♦	PY136☑
54	DA2100	INC	1	400m	%	4.5	24m	108m	57	15m	7.0k	4.5	100k	7 Seg;Alpha;Color Filters	EC8	PY125eØ
55	DA2110	INC	1	400m	%	4.5	24m	108m	57	15m	7.0k	4.5	100k	7 Seg;Alpha;Color Filters	EC8a	PY125eØ
56	DA2120	INC	1	400m	%	4.5	24m	108m	57	15m	7.0k	4.5	100k	± 1 Digit;Color Filters	EC8b	PY125eØ
57	08-50	INC	1	453m	10	5.0	17m	85m		24m	7.0k	5.0	100k	Digit	♦	PY130f☑
58	DIP850	INC	1	453m	10	5.0	17m	85m		24m	7.0k	5.0	100k	Digit	♦	PY132a☑
59	DIP851L	INC	1	453m	10	5.0	17m	85m		24m	7.0k	5.0	100k	Digit w/L.H. Dec.Pt	♦	PY132a☑
60	DIP851R	INC	1	453m	10	5.0	17m	85m		24m	7.0k	5.0	100k	Digit w/R.H. Dec.Pt	♦	PY132a☑
61	DIP852	INC	1	453m	10	5.0	17m	85m		24m	7.0k	5.0	100k	Digit w/Colon	♦	PY132a☑
62♦	DA1300	INC	1	472m	%	5.0	23m	115m	57	15m	6.0k		100k	7 Seg Num,Color filters.	EC8	PY124aØ
63♦	DA1310	INC	1	472m	%	5.0	23m	115m	57	15m	6.0k		100k	Decimal Point	EC8a	PY124aØ
64♦	DA1320	INC	1	472m	%	5.0	23m	115m	57	15m	6.0k		100k	±1 Digit.	EC8b	PY124aØ
65♦	DA2300	INC	1	472m	%	5.0	23m	115m	57	15m	6.0k	4.5	100k	7 Seg;Alpha;Color Filters	EC8	PY125aØ
66♦	DA2310	INC	1	472m	%	5.0	23m	115m	57	15m	6.0k	4.5	100k	7 Seg;Alpha;Color Filters	EC8a	PY125aØ
67♦	DA2320	INC	1	472m	%	5.0	23m	115m	57	15m	6.0k	4.5	100k	±1 Digit;Color Filters	EC8b	PY125aØ
68	FFD11	INC	1	472m		5.0	15m		57*		4.5k	5.0	100k	7 Seg Num,Color filters.	EC4	PY120☑
69	FFD12	INC	1	472m		5.0	15m		57*		4.5k	5.0	100k	Pol,Color filters.	EC5	PY120a☑
70♦	FFD41	INC	1	472m	%	5.3	34m		57		1.3k	5.0	40k	7 Seg;Num;Color Filters	EC4	PY120☑
71♦	DA2000	INC	1	600m	%	4.5	24m	108m	57	15m	7.0k	5.0	100k	7 Seg,No Dp,Color Filters	EC8	PY125dØ
72♦	DA2010	INC	1	600m	%	4.5	24m	108m	57	15m	7.0k	4.5	100k	7-Seg,LDP	EC8a	PY125dØ
73♦	DA2020	INC	1	600m	%	4.5	24m	108m	57	15m	7.0k	5.0	100k	±1 Digit	EC8b	PY125dØ
74	FFD21	INC	1	614m		5.0	15m		57*		4.5k	5.0	100k	7 Seg Num,Color filters.	EC6	PY121☑
75	FFD22	INC	1	614m		5.0	15m		57*		4.5k	5.0	100k	Pol,Color filters.	EC7	PY121a☑
76♦	FFD51	INC	1	614m	%	5.3	34m		57		1.3k	5.0	40k	7 Seg;Num;Color Filters	EC6	PY121☑
77	DIP1050	INC	1	625m	10	5.0	17m	85m		28m	6.0k	5.0	100k	7-Seg Digital	♦	PY133☑
78	DIP1050A	INC	1	625m	10	5.0	17m	85m		28m	6.0k	5.0	100k	16-Seg Alphanumeric	♦	PY133a☑
79	DIP1050PM-1	INC	1	625m	10	5.0	17m	85m		28m	6.0k	5.0	100k	Plus/Minus 1	♦	PY133b☑
80	DIP1051L	INC	1	625m	10	5.0	17m	85m		28m	6.0k	5.0	100k	7-Seg Dig Lf Hand Dec Pt	♦	PY133☑
81	DIP1051R	INC	1	625m	10	5.0	17m	85m		28m	6.0k	5.0	100k	7-Seg Dig Rt Hand Dec Pt	♦	PY133☑
82	DIP1052	INC	1	625m	10	5.0	17m	85m		28m	6.0k	5.0	100k	7-Seg Digital Colon	♦	PY133☑
83	710-0300-015	INC	1	1.0	%	6.0	40m	240m					50k	7 Seg;Alph;Separable Halves		PY557☑
84	710-0300-025	INC	1	1.0	%	15	18m	270m					5.0k	7 Seg;Alph;Separable Halves		PY557☑
85	710-0300-075	INC	1	1.0	%	5.0	30m	150m					10k	7 Seg;Alph;Separable Halves		PY557☑
86	710-0301-015	INC	1	1.0	%	6.0	40m	240m					50k	7 Seg;Alph;Separable Halves		PY557a☑
87	710-0301-025	INC	1	1.0	%	15	18m	270m					5.0k	7 Seg;Alph;Separable Halves		PY557a☑
88	710-0301-075	INC	1	1.0	%	5.0	30m	150m					10k	7 Seg;Alph;Separable Halves		PY557a☑
89	710-0302-015	INC	1	1.0	%	6.0	40m	240m					50k	7 Seg;Alph;Separable Halves		PY557b☑
90	710-0302-025	INC	1	1.0	%	15	18m	270m					5.0k	7 Seg;Alph;Separable Halves		PY557b☑
91	710-0302-075	INC	1	1.0	%	5.0	30m	150m					10k	7 Seg;Alph;Separable Halves		PY557b☑
92	710-0304-015	INC	1	1.0	%	6.0	40m	240m					50k	±;Separable Halves		PY557d☑
93	710-0304-025	INC	1	1.0	%	15	18m	270m					5.0k	±;Separable Halves		PY557d☑
94	710-0304-075	INC	1	1.0	%	5.0	30m	150m					10k	±;Separable Halves		PY557d☑
95	710-0305-015	INC	1	1.0	%	6.0	40m	240m					50k	±;Separable Halves		PY557c☑
96	710-0305-025	INC	1	1.0	%	15	18m	270m					5.0k	±;Separable Halves		PY557c☑
97	710-0305-075	INC	1	1.0	%	5.0	30m	150m					10k	±;Separable Halves		PY557c☑
98▼	841XY2-35SC	LTR	1	8.4	%	16 §	3.4 §	2.5 ☑	47				150k	Elec-Mech;5x7 Matrix;Alpha	EC72	PY631
99▼	1200XY2-35SC	LTR	1	13	%	16 §	3.4 §	2.5 ☑	47				150k	Elec-Mech;5x7 Matrix;Alpha	EC72	PY630
100▼	1201XY2-35SC	LTR	1	13	%	16 §	3.4 §	2.5 ☑	47				150k	Elec-Mech;5x7 Matrix;Alpha	EC72	PY631a
101▼	1800XY2-35SC	LTR	1	18	%	16 §	3.4 §	2.5 ☑	47				150k	Elec-Mech;5x7 Matrix;Alpha	EC72	PY630a
102▼	1801XY2-35SC	LTR	1	18	%	16 §	3.4 §	2.5 ☑	47				150k	Elec-Mech;5x7 Matrix;Alpha	EC72	PY631b
103♦	100SS3-07DC	LTR	1	1.0	10	18 §	4.0 §		46	10m☑			250M$	Elec-Mech;7-Seg;Double Coil	EC70	PY627
104▼	100SS3-07SC	LTR	1	1.0	10	28 §	400m§		46	10m☑			250M$	Elec-Mech;7-Seg;Single Coil	EC69	PY627
105▼	100SS4-07SC	LTR	1	1.0	10	12 §	1.0 §		46	10m☑			250M$	Elec-Mech;7-Seg;Single Coil	EC69	PY627
106▼	101SS2-07DC	LTR	1	1.0	10	18 §	4.0 §		46	10m☑			250M$	Elec-Mech;7-Seg;Double Coil	EC68	PY626
107▼	101SS2-07SC	LTR	1	1.0	10	28 §	400m§		46	10m☑			250M$	Elec-Mech;7-Seg;Single Coil	EC67	PY626
108▼	270PE2-35	LTR	1	2.7	%	48 §	10 §		47				100M$	Elec-Mech;5x7 Matrix;Num	EC71	PY628
109▼	270XY3-35SC	LTR	1	2.7	%	10 §	250m§	750m☑	47				100M$	Elec-Mech;5x7 Matrix;Alpha	EC73	PY632
110▼	410PE2-35	LTR	1	4.1	%	72 §	12 §	5.0 #	47				100M$	Elec-Mech;5x7 Matrix;Num	EC71	PY628a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

37. DISPLAY: OTHER

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DISPLAY	2 NO. OF DIGITS	3 CHAR. HGHT. (in)	COL -OR	D.C. VOLT (V)	D.C. CURR per seg (A)	POWER DISS. per seg	TEMP RNG. CODE - +	RESP TIME (S)	LUMINANCE Lv (fL)	LUMINANCE V SUPP. (V)	LIFE (hrs)	FEATURES	SCHEM -ATIC	DRAWING Ø-RND. ☐-RECT. △-STRIP *-CHIP
1▼	410XY3-35SC	LTR	1	4.1	%	10 §	250m§	750m☐	47				100M§	Elec-Mech;5x7 Matrix;Alpha	EC73	PY632a
2▼	840PE2-98	LTR	1	8.4	%	96 §	16 §	10 #	46				20M§	Elec-Mech;7x14 Matrix;Num		PY629
3▼#	FG48SA1	VFD			5	15	625u	13m	05	8.0u	180	15		Bar Graph:24 Seg 2 Lines	EC79	PY642ai
4▼#	FG100SA1	VFD			5	35	400u	3.5m	05	8.0u	250	35		Bar Graph:100 Seg	EC79	PY642aj
5▼#	FG100SB1	VFD			5	35	350u	3.6m	05	8.0u	250	35		Bar Graph:100 Seg W/3 Digit	EC79	PY642ak
6▼#	FG120S1	VFD			5	35	600u	4.7m	05	8.0u	200	35		Bar Graph:120 Seg	EC79	PY642al
7▼#	FG202SA2	VFD			5	35	250u	1.6m	05	8.0u	250	35		Bar Graph:101 Seg 2 Lines	EC79	PY646j
8▼#	DM258X26B	VFD		656m	5	45	192u	400u	05	8.0u	200	45		258x26 Dot Matrix Column	EC77	PY648b
9▼#	DM400B	VFD		3.0	5	35	250u	4.1m	05	8.0u	200	35		20x20 Dot Matrix Graphic Pa	EC77	PY648
10▼#	DM80X80A	VFD		3.1	5	45	500u	800u	05	8.0u	250	45		80x80 Dot Matrix Graphic Pa	EC77	PY648a
11♦#	LD8171	VFD	2	300m	5	12	850u		06		200	12		FI Indicator Panel;Static	EC55	PY477
12▼#	FG210B9	VFD	2	394m	5	12	114u	18m	05	8.0u	400	12		7 Seg Num W/Triangle(Static	EC78	PY647
13▼#	FG213B9	VFD	2	496m	5	12	142u	20m	05	8.0u	400	12		7 Seg Num W/Triangle(Static	EC78	PY647a
14▼#	FG46A5	VFD	4	217m	5	28	214u	4.4m	05	8.0u	500	28		7 Seg W/Colon,Clock	EC78	PY645
15▼#	FG48C2	VFD	4	300m	5	12	142u	9.1m	05	8.0u	400	12		7 Seg W/Colon,Clock(Static)	EC78	PY646h
16▼#	FG48E1	VFD	4	300m	5	24	214u	4.1m	05	8.0u	400	24		7 Seg W/Colon,Clock	EC78	PY642ad
17▼#	FG48K6	VFD	4	300m	5	24	285u	7.5m	05	8.0u	400	24		7 Seg W/Colon,Clock	EC78	PY643n
18▼#	FG48P2	VFD	4	300m	5	12	114u	10m	05	8.0u	600	12		7 Seg W/Colon,Clock(Static)	EC78	PY646i
19♦#	LD8164	VFD	4	300m	5	12	800u		06		200			FI Indicator Panel;Static	EC56	PY480
20♦#	LD8165	VFD	4	300m	5	24	3.2m		06		200			FI Indicator Panel;Dyn	EC57	PY481
21▼#	FG48D6	VFD	4	315m	5	24	228u	4.1m	05	8.0u	400	24		7 Seg W/Colon,Symbol,Clock	EC78	PY643m
22▼#	FG410E2	VFD	4	394m	5	15	150u	6.4m	05	8.0u	200	15		7 Seg Num W/DP,±(Static)	EC78	PY646g
23▼#	FG410F1	VFD	4	394m	5	24	312u	5.4m	05	8.0u	250	24		7 Seg Num W/DP,±	EC78	PY642m
24♦#	FG619B1	VFD	4	453m	5	26	750u	10m	05	8.0u	250	26		7 Seg W/Colon,Annunciat,Clk	EC78	PY642ah
25▼#	FG412D1	VFD	4	472m	5	26	428u	9.9m	05	8.0u	250	26		7 Seg W/Colon,AM,PM,Clock	EC78	PY642ae
26▼#	FG413D1	VFD	4	492m	5	26	500u	13m	05	8.0u	250	26		7 Seg W/Colon,Clock	EC78	PY642af
27♦#	LD8213	VFD	4	500m	5	15	1.5m		06		80			FI Indicator Panel;Static		
28♦#	FG415E6	VFD	4	570m	5	24	625u	12m	05	8.0u	200	24		7 Seg Num W/DP,±,Arrow	EC78	PY643j
29♦#	FG515B7	VFD	4	590m	5	15	214u	17m	05	8.0u	250	15		7 Seg W/Colon,AM,PM,ALM,Clk	EC78	PY643o
30♦#	LD8195	VFD	4	600m	5	18	1.5m		06		100			FI Indicator Panel;Static	EC59	PY484
31♦#	LD8222	VFD	4	600m	5	18	1.5m		06		100			FI Indicator Panel;Static	EC59	PY490
32▼#	FG425A1	VFD	4	984m	5	35	928u	27m	05	8.0u	250	35		7 Seg W/Colon,AM,PM,Clock	EC78	PY642ag
33▼#	FG510A1	VFD	5	394m	5	24	262u	5.8m	05	8.0u	200	24		7 Seg Num W/DP,±	EC78	PY642n
34▼#	FG511E6	VFD	5	433m	5	24	437u	7.7m	05	8.0u	200	24		7 Seg Num W/DP,±,Arrow	EC78	PY643k
35▼#	FG512A1	VFD	5	472m	5	24	375u	7.2m	05	8.0u	200	24		7 Seg Num W/DP,±	EC78	PY642o
36▼#	FG512F1	VFD	5	492m	5	26	562u	11m	05	8.0u	200	26		7 Seg Num W/Colon,DP,Symbol	EC78	PY642p
37♦#	FG514A1	VFD	5	550m	5	35	777u	10m	05	8.0u	250	35		8 Seg Num W/DP	EC78	PY642q
38▼#	FG516B1	VFD	5	590m	5	45	1.7m	14m	05	8.0u	250	45		7 Seg Num W/DP,Comma	EC78	PY642r
39♦#	LD8196	VFD	5	600m	5	18	1.5m		06		100			FI Indicator Panel;Static	EC60	PY485
40♦#	LD8223	VFD	5	600m	5	18	1.5m		06		100			FI Indicator Panel;Static	EC60	PY491
41▼#	FG610A1	VFD	6	374m	5	24	225u	4.9m	05	8.0u	200	24		7 Seg Num W/DP,±	EC78	PY642s
42▼#	FG612A1	VFD	6	453m	5	24	375u	6.5m	05	8.0u	200	24		7 Seg Num W/DP,±	EC78	PY642t
43▼#	FG614A1	VFD	6	550m	5	35	1.0m	11m	05	8.0u	250	35		8 Seg Num W/DP,Comma	EC78	PY642u
44♦#	FG912E1	VFD	7	472m	5	35	666u	11m	05	8.0u	250	35		7 Seg W/DP,Comma,Kg,Symbol	EC78	PY642z
45▼#	FG713ES1	VFD	7	496m	5	35	555u	13m	05	8.0u	250	35		7 Seg Num W/DP,Symbol	EC78	PY642y
46▼#	FG715RS1	VFD	7	570m	5	35	777u	15m	05	8.0u	250	35		7 Seg W/DP,Comma,Annunciato	EC78	PY642w
47▼#	FG85A1	VFD	8	177m	5	24	75u	900u	05	8.0u	160	24		7 Seg Num W/DP	EC78	PY642b
48▼#	FG85C1	VFD	8	197m	5	24	75u	900u	05	8.0u	180	24		7 Seg Num W/DP	EC78	PY642c
49▼#	FG85D2	VFD	8	199m	5	24	156u	800u	05	8.0u	200	24		14 Seg Alpha Num W/DP	EC74	PY641☐
50♦#	LD8198	VFD	8	200m	5	24	700u		06		90			FI Indicator Panel;Dyn	EC61	PY487
51▼#	FG99A2	VFD	8	374m	5	24	277u	3.9m	05	8.0u	200	24		7 Seg Num W/DP,Comma,Symbol	EC78	PY646
52▼#	FG99C1	VFD	8	374m	5	24	333u	4.0m	05	8.0u	200	24		7 Seg W/DP,Comma,Annunciato	EC78	PY642x
53▼#	FG99E1	VFD	8	374m	5	24	333u	4.0m	05	8.0u	200	24		7 Seg W/DP,Comma,Annunciato	EC78	PY642y
54♦#	LD8217	VFD	8	430m	5	42	5.0m		06		80			FI Indicator Panel;Dyn	EC61a	PY489
55▼#	FG95B1	VFD	9	197m	5	24	87u	1.0m	05	8.0u	200	24		7 Seg Num W/DP	EC78	PY642d
56▼#	FG95H6	VFD	9	197m	5	24	87u	1.0m	05	8.0u	200	24		7 Seg Num W/DP	EC78	PY643
57▼#	DC95A2	VFD	9	199m	5	24	69u	500u	05	8.0u	250	24		5x7 Dot Matrix W/DP	EC75	PY641g☐
58♦#	LD8191	VFD	9	200m	5	24	800u		06		170			FI Indicator Panel;Dyn	EC61b	PY482
59▼#	FG97D6	VFD	9	276m	5	26	22u	2.6m	05	8.0u	200	26		7 Seg Num W/DP	EC78	PY643
60▼#	FG913ES1	VFD	9	496m	5	35	500u	11m	05	8.0u	250	35		7 Seg W/DP,Symbol	EC78	PY642aa
61♦#	LD8194	VFD	9	500m	5	45	3.6m		06		70			FI Indicator Panel;Dyn	EC58	PY483
62▼#	FG914RB	VFD	9	550m	5	30	722u	8.7m	05	8.0u	250	30		7 Seg W/DP,Comma,Symbol	EC78	PY644a
63▼#	FG915R1	VFD	9	570m	5	35	777u	13m	05	8.0u	250	35		7 Seg W/DP,Comma,Symbol	EC78	PY642ab
64▼#	FG115E7	VFD	10	206m	5	24	150u	1.2m	05	8.0u	180	24		7 Seg Num W/DP,Comma,Symbol	EC78	PY643b
65▼#	FG116A6	VFD	10	226m	5	24	150u	1.2m	05	8.0u	200	24		7 Seg Num W/DP,Symbol	EC78	PY643c
66▼#	FG117C7	VFD	10	256m	5	26	200u	2.0m	05	8.0u	200	26		7 Seg Num W/DP,Comma,Symbol	EC78	PY643e
67♦	DE210	VFD	10	310m	%	34	10m#	1.3	05*					1 Line;14 Seg;Com/Per;ASCII	EC63	PY517
68▼#	FG108M1	VFD	10	315m	5	26	312u	2.4m	05	8.0u	200	26		14 Seg Alpha Num W/DP,Comma	EC74	PY642☐
69▼#	FG118A1	VFD	10	315m	5	26	111u	2.0m	05	8.0u	200	26		7 Seg Num W/DP,Comma,Symbol	EC78	PY642e
70▼#	FG119A1	VFD	10	374m	5	30	311u	4.4m	05	8.0u	200	30		7 Seg Num W/DP,Comma,Symbol	EC78	PY642f
71▼#	FG1013RS1	VFD	10	512m	5	35	454u	8.0m	05	8.0u	200	35		7 Seg W/DP,Comma,Annunciato	EC78	PY642ac
72▼#	DC1015A2	VFD	10	551m	5	35	216u	3.0m	05	8.0u	250	35		5x7 Dot Matrix W/DP,Comma	EC75	PY641h☐
73▼#	FG116C6	VFD	11	226m	5	22	88u	1.0m	05	8.0u	180	22		7 Seg Num W/DP	EC78	PY643d
74▼#	FG124B2	VFD	12	146m	5	24	50u	600u	05	8.0u	180	24		7 Seg Num W/DP	EC78	PY646a
75♦#	LD8197	VFD	12	170m	5	22	600u		06		80			FI Indicator Panel;Dyn	EC54b	PY486
76▼#	FG125A2	VFD	12	197m	5	24	125u	1.3m	05	8.0u	200	24		7 Seg Num W/DP	EC78	PY646b
77♦#	LD8146	VFD	12	200m	5	22	700u		06		200			FI Indicator Panel;Dyn	EC54a	PY478
78▼#	FG135C1	VFD	12	209m	5	24	100u	1.1m	05	8.0u	180	24		7 Seg Num W/DP,Comma,Symbol	EC78	PY642g
79▼#	FG126A2	VFD	12	236m	5	30	187u	1.6m	05	8.0u	250	30		14 Seg Alpha Num W/DP,Comma	EC74	PY641a☐
80▼#	FG137C6	VFD	12	256m	5	26	130u	1.2m	05	8.0u	200	26		7 Seg Num W/DP,Comma,Symbol	EC78	PY643f
81▼#	FG138A1	VFD	12	315m	5	26	222u	2.3m	05	8.0u	200	26		7 Seg Num W/DP,Comma,Symbol	EC78	PY642i
82▼#	FG138B7	VFD	12	315m	5	26	333u	3.0m	05	8.0u	180	26		7 Seg Num W/DP,Comma,Symbol	EC78	PY643g
83▼#	FG139A1	VFD	12	374m	5	30	280u	3.5m	05	8.0u	200	30		7 Seg Num W/DP,Comma,Symbol	EC78	PY642j
84▼#	FG139A3	VFD	12	374m	5	30	280u	3.5m	05	8.0u	200	30		7 Seg Num W/DP,Comma,Symbol	EC78	PY646c
85▼#	FG139E1	VFD	12	374m	5	26	400u	3.6m	05	8.0u	180	26		7 Seg Num W/DP,Comma,Symbol	EC78	PY642k
86▼#	FG139F7	VFD	12	374m	5	30	340u	3.6m	05	8.0u	200	30		7 Seg Num W/DP,Comma,Symbol	EC78	PY643h
87▼#	FG1213A1	VFD	12	519m	5	28	500u	5.6m	05	8.0u	250	28		14 Seg Alpha Num W/DP,Comma	EC74	PY642a☐
88▼#	FG1215RB6	VFD	12	590m	5	35	833u	12m	05	8.0u	180	35		7 Seg W/DP,Symbol	EC78	PY643l
89▼#	FG135F	VFD	13	177m	5	24	111u	1.0m	05	8.0u	160	24		7 Seg Num W/DP	EC78	PY644
90♦#	LD8154	VFD	13	200m	5	24	1.0m		06		60			FI Indicator Panel;Dyn	EC54	PY479
91♦#	LD8224	VFD	13	200m	5	24	1.0m		06		100			FI Indicator Panel;Dyn	EC54	PY492
92▼#	FG137A1	VFD	13	256m	5	26	180u	1.5m	05	8.0u	200	26		7 Seg Num W/DP,Comma	EC78	PY642h
93♦#	LD8200	VFD	13	260m	5	26	2.0m		06		80			FI Indicator Panel;Dyn	EC62	PY488
94♦#	LD8216	VFD	13	370m	5	30	2.8m		06		100			FI Indicator Panel;Dyn		
95▼#	FG144B2	VFD	14	146m	5	24	50u	600u	05	8.0u	180	24		7 Seg Num W/DP	EC78	PY646d
96▼#	FG157C1	VFD	14	256m	5	26	200u	1.8m	05	8.0u	200	26		7 Seg Num W/DP,Comma,Symbol	EC78	PY642l
97▼#	FG159A2	VFD	14	374m	5	35	388u	3.8m	05	8.0u	200	35		7 Seg Num W/DP,Comma,Symbol	EC78	PY646e
98▼#	FG157D7	VFD	15	256m	5	26	222u	1.6m	05	8.0u	180	26		7 Seg Num W/DP,Comma	EC78	PY643i
99▼#	DC165A2	VFD	16	199m	5	28	71u	400u	05	8.0u	250	28		5x7 Dot Matrix	EC75	PY641i☐
100▼#	FG166A2	VFD	16	236m	5	35	250u	1.7m	05	8.0u	250	35		14 Seg Alpha Num W/DP,Comma	EC74	PY641b☐
101▼#	DC169A2	VFD	16	354m	5	35	214u	1.7m	05	8.0u	250	35		5x7 Dot Matrix	EC75	PY641j☐
102▼#	FG169B2	VFD	16	368m	5	40	562u	4.7m	05	8.0u	250	40		14 Seg Alpha Num W/DP,Comma	EC74	PY641c☐
103▼#	FG179A2	VFD	16	374m	5	35	722u	4.8m	05	8.0u	200	35		7 Seg Num W/DP,Comma,Symbol	EC78	PY646f
104▼#	DC1612B2	VFD	16	445m	5	35	540u	3.0m	05	8.0u	250	35		5x7 Dot Matrix W/DP,Comma	EC75	PY641k☐
105▼#	DC205A2	VFD	20	199m	5	35	100u	500u	05	8.0u	250	35		5x7 Dot Matrix	EC75	PY641l☐
106▼#	FG206A2	VFD	20	217m	5	35	250u	1.4m	05	8.0u	250	35		14 Seg Alpha Num W/DP,Comma	EC74	PY641d☐
107♦	DE220	VFD	20	350m	%	44	20m#	2.3	05*					1 Line;14 Seg;Com/Per;ASCII	EC63	PY518
108▼#	DC209A2	VFD	20	354m	5	35	214u	1.7m	05	8.0u	250	35		5x7 Dot Matrix	EC75	PY641m☐
109▼#	FG209M2	VFD	20	354m	5	35	625u	4.2m	05	8.0u	200	35		14 Seg Alpha Num W/DP,Comma	EC74	PY641e☐
110▼#	DC40066A	VFD	240	197m	5	50	100u	400u	05	8.0u	200	50		5x7 Dot Matrix W/Cursor,6 R	EC76	PY641v

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

37. DISPLAY: OTHER

IN ORDER OF:(1)TYPE DISPLAY (2)NO. DIGITS (3)CHAR. HT. & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DIS-PLAY	2 NO. OF DIGITS	3 CHAR. HGHT. (in)	COL -OR	D.C. VOLT (V)	D.C. CURR per seg (A)	POWER DISS. per seg	TEMP RNG. CODE - +	RESP TIME (S)	LUMINANCE Lv (fL)	LUMINANCE V SUPP. (V)	LIFE (hrs)	FEATURES	SCHEM-ATIC	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1▼#	DC326A2	VFD	32	199m	5	40	166u	400u	05	8.0u	250	40		5x7 Dot Matrix W/Cursor	EC75	PY641n☐
2▼#	FG326A2	VFD	32	236m	5	45	312u	1.7m	05	8.0u	250	45		14 Seg Alpha Num W/DP,Comma	EC74	PY641f☐
3♦	DE232	VFD	32	240m	%	54	10m#	1.8	05*					1 Line;14 Seg;Period;ASCII	EC63	PY518
4▼#	DC327A2	VFD	32	258m	5	42	166u	400u	05	8.0u	250	42		5x9 Dot Matrix	EC75	PY641o☐
5♦#	DC405A2	VFD	40	199m	5	45	200u	800u	05	8.0u	250	45		5x7 Dot Matrix	EC75	PY641p☐
6▼#	DC406A2	VFD	40	199m	5	45	166u	700u	05	8.0u	250	45		5x7 Dot Matrix W/Cursor	EC75	PY641q☐
7♦	DE240	VFD	40	200m	%	54	13m#	2.6	05*					1 Line;14 Seg;Com/Per;ASCII	EC63	PY519
8▼#	DC409A2	VFD	40	346m	5	45	250u	700u	05	8.0u	250	45		5x12 Dot Matrix	EC75	PY641r
9▼#	DC40025A2	VFD	80	199m	5	45	200u	600u	05	8.0u	250	45		5x7 Dot Matrix,2 Rows	EC76	PY641t
10▼#	DC40026A2	VFD	80	199m	5	45	166u	500u	05	8.0u	250	45		5x7 Dot Matrix W/Cursor 2 R	EC76	PY641u
11▼#	DC809A2	VFD	80	343m	5	55	916u	500u	05	8.0u	200	55		5x12 Dot Matrix	EC75	PY641s

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

45. SPECIAL DETECTORS

IN ORDER OF:(1)TYPE DETECTOR (2)OUTPUT CURR. (3)FWD CURR-IF & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DETECTOR	2 DETECTOR OUTPUT CURRENT IC (A)	3 IF (A)	VCC #-VCE (V)	MAX.DETECT. SAT. VOLT VCE(SAT) (V)	IF (A)	NOMIN. DIST. (in)	MAX. DIODE REV V VR (V)	MAX. DIODE FWD I IF (A)	MAX. C/E VOLT VCE (V)	TEMP RNG. CODE - +	RESP TIME (S)	TYPE OF O/P CKT	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1#	SDA13	E-S Array-09	3.0m	35m	5.0 #	700m	35m	100m	2.0	100m		6C	1.5u#	TR	LEA13,LSA13		PS84☑
2#	CNY26	E-S Array-09	4.0m	50m	5.0 #	400m	50m							TR			PS40Δ
3	STA71SS	E-S Array-09	4.5m		5.0 #	700m	50m		5.0	75mΔ		4A*	20u	TR	MF650m	FA16	PS9Δ
4	STA73SS	E-S Array-10	4.5m		5.0 #	700m	50m		5.0	75mΔ		4A*	20u	TR	MF650m	FA16	PS10Δ
5#	SDA17	E-S Array-12	3.0m	35m	5.0 #	700m	35m	100m	2.0	100m		6C	1.5u#	TR	LEA17,LSA17		PS84a☑
6#	CNY27	E-S Array-12	4.0m	50m	5.0 #	400m	50m							TR			PS40Δ
7	STA74SS	E-S Array-12	4.5m		5.0 #	700m	50m		5.0	75mΔ		4A*	20u	TR	MF650m	FA16	PS11Δ
8♦	OPB505	E-S ARRAY-06	1.6m	30m	5.0 #			.100		50m	25			TR			PS79☑
9♦	OPB508	E-S ARRAY-09	1.6m	30m	5.0 #			.100		50m	25			TR			PS80☑
10	PP910	E-S ARRAY-09	3.2m	200m#	5.0	400m	3.2m#	20m				15§	5.0u	ST	Tape/Crd Rdr	FA17	PS51☑
11	PP910A	E-S ARRAY-09	3.2m	200m#	5.0	400m	3.2m#	20m				15§	5.0u	ST	Tape/Crd Rdr	FA17	PS51☑
12	PP910B	E-S ARRAY-09	3.2m	200m#	5.0	400m	3.2m#	20m				15§	5.0u	ST	Tape/Crd Rdr	FA17	PS51☑
13♦	TIL133	E-S ARRAY-09	4.0m	50m	5.0 #	700m	50m	100m	2.0	100m		6C	1.5u#	TR	See TIL131,2		PS40Δ
14	PP900	E-S ARRAY-09	4.0m	150m*	5.0	400m	4.0m#	.100				5C%	900n#	ST	Tape/Crd Rdr	FA17	PS50☑
15	PP900A	E-S ARRAY-09	4.0m	150m*	5.0	400m	4.0m#	.100				5C%	900n#	ST	Tape/Crd Rdr	FA17	PS50☑
16♦	OPB112	E-S ARRAY-12	500uØ	40m	5.0 #	400m	40m	50m	2.0	40m	25	48*	3.0u#	TR	Reader		PS63☑
17♦	OPB512	E-S ARRAY-12	1.6mØ	50m	5.0 #	400m	30m	100m	2.0	50m	25	48*	3.0u#	TR	Reader		PS40aΔ
18♦	TIL136	E-S ARRAY-12	4.0m	50m	5.0 #	700m	50m	100m	2.0	100m		6C	1.5u#	TR	See TIL134,5		PS40aΔ
19♦	OPB113	E-S ARRAY-12	4.5mØ	40m	5.0 #	400m	40m	50m	2.0	40m	25	48*	3.0u#	TR	Reader		PS63☑
20♦	TIL141	E-S ARRAY-12	16m	410m*	5.0	.40	16m#	50m				07*		ST	12 Ch Reader	FA22	PS74☑
21♦	TIL142	E-S ARRAY-12	16m	410m*	5.0	.40	16m#	50m				07*		ST	12 Ch Reader	FA22	PS74☑
22♦	OPB518	E-S ARRAY-18	1.6m	30m	5.0 #			.100		50m	25			TR			PA25☑
23#	SDA20	EM-SEN$	100u	35m	5.0 #	750m	35m	187m						TR	LS600,TIL23		PS85☑
24	H17A1	EM-SENS	50uØ	20m	10 #	400m	20m		3.0	60m	30	5A*	5.0u	TR		FA6	PS33Ø
25	OPS690	EM-SENS	50uØ	20m	10 #	500m	20m	125m	2.0	3.0 §	30	48		TR	LED to NPN	FA2a	PS164☑
26	L01008/P01014	EM-SENS	150u					180m		35m	30	06		TR	IR LED		PS144Ø
27#	TLP507	EM-SENS	500u	10m	5.0 #			3.0m	5.0	40m	25	27*		DA		FA3a	PS92☑
28	OPS691	EM-SENS	500uØ	20m	10 #	500m	20m	125m	2.0	3.0 §	30	48		TR	LED to NPN	FA2a	PS164☑
29	H17B1	EM-SENS	1.0mØ	20m	5.0 #	1.2	20m		3.0	60m	25	5A*	150u	TR	Darlington	FA3	PS33Ø
30	OPS692	EM-SENS	1.0mØ	20m	10 #	500m	20m	125m	2.0	3.0 §	30	48		TR	LED to NPN	FA2a	PS164☑
31▼	H23A1	EM-SENS	1.5mØ	30m	5.0 #	400m	30m	125m	6.0	60m	30	5A	8.0u	TR			PS☑
32▼	H23B1	EM-SENS	2.0mØ	10m	1.5 #		10m	125m	6.0	60m	30	5A	45u	DA			PS☑
33	OPS693	EM-SENS	2.0mØ	20m	10 #	500m	20m	125m	2.0	3.0 §	30	48		TR	LED to NPN	FA2a	PS164☑
34	L110/P110	EM-SENS	20m		20			72	5.0 $	125m$		X7*		TR	PD 100mW		PS97b☑
35	L130/P130	EM-SENS	20m		20			72	5.0 $	125m$		X7*		TR	PD 100mW		PS97a☑
36	L140/P140	EM-SENS	20m		20			216	5.0 $	125m$		X7*		TR	PD 100mW		PS97☑
37	S17104-F172	EM-SENS-FO	250u	100m	5.0 #			1.2 ☑		100m	20	07*	3.0u#	TR	LED w/IR FIL	FA30a	PS154b☑
38	S17104-F173	EM-SENS-FO	250u	100m	5.0 #			300m☑		100m	20	07*	3.0u#	TR	LED w/IR FIL	FA30a	PS154a☑
39	S17103-F172	EM-SENS-FO	700u	115m#	5.0 #			2.0 ☑		115m$	20	07*	3.0u#	TR	INC w/IR FIL	FA18a	PS154b☑
40	S17103-F173	EM-SENS-FO	700u	115m#	5.0 #			500m☑		115m	20	07*	3.0u#	TR	INC w/IR FIL	FA18a	PS154a☑
41	S17105-F172	EM-SENS-FO	700u	115m	5.0 #			500m☑		115m$	15	07*	10m#	TR	INC;VIS FIL	FA18a	PS154b☑
42	S17105-F173	EM-SENS-FO	700u	115m#	5.0 #			100m☑		115m$	15	07*	10m#	TR	INC;VIS FIL	FA18a	PS154a☑
43	CLI305	GAP				500m	20m	250m	3.0 Ø	60m	30	5A§	5.0u#	AP	IRED/NPN	FA32	PS1a☑
44	OPB814	GAP	1.0uØ	10m	5.0 #	400m	10m	125m	3.0	50m	30	5A*	5.0u#	TR		FA23	PS4a☑
45#	GP505	GAP	15u	50m	10 #			216m	6.0	100m		06*	18u#	DI		FA23a	PS128☑
46	EOS2A2	GAP	50uØ	20m	10	550m	50m	125m	3.0	50m	30	07☑	5.0u#	TR	Limit Switch	FA23a	PS32☑
47	H13A2	GAP	50uØ	20m	10 #	400m	20m	.125	3.0	60m	30	58*	5.0u	TR		FA6	PS32☑
48	H20A2	GAP	50uØ	20m	10 #	400m	20m	125m	3.0	60m	30	58*	5.0u	TR		FA23a	PS134☑
49	STIN135T2	GAP	50u	20m	10	400m	20m	125m			30	58	5.0u#	TR			PS87☑
50	TIL144	GAP	50uØ	20m	10 #			100m	3.0	50m	30	6A%	5.0u#	TR			PS4☑
51▼	OPB813S3	GAP	75uØ	20m	10 #	400m	20m	125m	3.0	50m	30	58		TR		FA23	PS197c☑
52	CLI210	GAP	100uØ	20m	5.0 #	500m	20m	100m	3.0 Ø	60m	40	5A§	5.0u#	TR	IRED/NPN	FA2	PS58☑
53	MCT81	GAP	100u	20m	10 #	400m	20m	.100	3.0 Ø	50m	30	5A*	6.0u	TR	ICEO 300nA	FA3	PS4☑
54#	PS4003	GAP	150uØ	10m	2.0 #	1.2	10m	78m	5.0	50m	30	28	200u	DA		FA3	PS4d☑
55#	PS4005	GAP	150uØ	10m	2.0 #	1.2	10m	78m	5.0	50m	30	28	200u	DA		FA3	PS184☑
56	STCT0A	GAP	150u	40m	5.0	400m	50m	60m			25	48	25u#	TR			PS28☑
57	STCT1A	GAP	150u	40m	5.0	400m	50m	190m			25	48	25u#	TR			PS28a☑
58	STCT2A	GAP	150u	40m	5.0	400m	50m	190m			25	48	25u#	TR			PS28a☑
59♦#	CNY36	GAP	200uØ	20m	10 #	400m	20m	120m	5.0	40m	32	48	2.1u#	TR		FA6	PS108☑
60	EOS2A1	GAP	200uØ	20m	10	550m	50m	125m	3.0	50m	30	07☑	15u#	TR	Limit Switch	FA23a	PS32☑
61#	ON1103	GAP	200u	20m	10 #	300m	50m	118m	3.0	50m	30	28	6.0u			FA23a	PS4e
62	STIN135T1	GAP	200u	20m	10	400m	20m	125m			30	58	5.0u#	TR			PS87☑
63	TIL143	GAP	200uØ	20m	10 #			100m	3.0	50m	30	6A%	5.0u#	TR			PS4☑
64	SPX1877-1	GAP	200u	30m	5.0 #			375m	2.0	100m	50	6A*	10u	TR		♦	PS23☑
65	MCT8	GAP	250u	20m	10 #	400m	20m	.100	3.0 Ø	50m	30	5A*	6.0u	TR	ICEO 350nA	FA3	PS4☑
66▼	OPB813S5	GAP	250uØ	20m	10 #	400m	20m	125m	3.0	50m	30	58		TR		FA23	PS197b☑
67	STCT0B	GAP	330u	40m	5.0	400m	50m	60m			25	48	25u#	TR			PS28☑
68	STCT1B	GAP	330u	40m	5.0	400m	50m	190m			25	48	25u#	TR			PS28a☑
69	STCT2B	GAP	330u	40m	5.0	400m	50m	190m			25	48	25u#	TR			PS28a☑
70▼	OPB813S7	GAP	350uØ	20m	10 #	400m	20m	125m	3.0	50m	30	58		TR		FA23	PS197a☑
71	CNY28	GAP	400u	20m	10 #	400m	20m	140m☑	3.0	60m	30	58*	5.0uΔ	TR	Interrupt	FA23a	PS32
72	H13A1	GAP	400u	20m	10 #	400m	20m	.125	3.0	60m	30	58*	5.0u	TR		FA6	PS32☑
73	H20A1	GAP	400u	20m	10 #	400m	20m	125m	3.0	60m	30	58*	5.0u	TR		FA23a	PS134☑
74	SPX1875-1	GAP	400u	30m	5.0 #			200m	2.0	100m	50	6A*	10u	TR		FA2	PS21☑
75	SPX1876-1	GAP	400u	30m	5.0 #			200m	2.0	100m	50	6A*	10u	TR		♦	PS22☑
76	CLI395	GAP	500uØ	10m	5.0 #	500m	20m	250m	3.0 Ø	60m	30	5A§	5.0u#	TR	IRED/NPN	FA34	PS1a☑
77#	PS4001	GAP	500u	10m	2.0 #	1.2	10m	98m	5.0	50m	30	28*	200u#	DA		FA3	PS4d☑
78	STIN135D2	GAP	500u	10m	5.0	1.2	10m	125m			25	58	150u#	DA			PS87☑
79	OPB804	GAP	500uØ	20m	10 #	400m	20m	.150	3.0	50m	30	5A*	5.0u#	TR		FA23	PS68
80	OPB813	GAP	500uØ	20m	10 #	400m	20m	125m	3.0	50m	30	5A*	5.0u#	TR		FA23	PS4a☑
81♦	OPB813S	GAP	500uØ	20m	10 #	400m	20m	125m	3.0	50m	30	5A*	5.0u#	TR		FA23	PS197☑
82	OPB816	GAP	500uØ	20m	10 #	400m	20m	125m	3.0		30			TR		FA2a	PS162☑
83▼	OPB823	GAP	500u	20m	10 #	400m	20m	125m	3.0	50m	30	58		TR		FA2c	PS198☑
84	OPB825	GAP	500uØ	20m	500m#			140m		40m	30			TR		FA2a	PS163☑
85	SPX1872-1	GAP	500u	20m	5.0 #	800m	20m	200m	2.0	100m	50	6A*	10u	TR		FA2	PS25☑
86	SPX1873-1	GAP	500u	20m	5.0 #	800m	20m	100m	2.0	100m	50	6A*	10u	TR		FA2	PS24☑
87	SPX1874-1	GAP	500u	20m	5.0 #	800m	20m	120m	2.0	100m	50	6A*	10u	TR		FA2	PS73☑
88	STCT0C	GAP	700uØ	40m	5.0	400m	50m	60m			25	48*	25u#	TR			PS28☑
89	STCT1C	GAP	700uØ	40m	5.0	400m	50m	190m			25	48*	25u#	TR			PS28a☑
90	STCT2C	GAP	700uØ	40m	5.0	400m	50m	190m			25	48*	25u#	TR			PS28a☑
91#	CNY37	GAP	800u	20m	10 #	400m	20m	120m	5.0	60m	32	28%		TR		FA6	PS4c☑
92	SPX1877-2	GAP	800u	30m	5.0 #	800m	30m	375m	2.0	100m	50	6A*	10u	TR		♦	PS23☑
93	OPB120	GAP	800uØ	40m	5.0 #	400m	50m	125m	2.0	50m	25	07*	2.5u#	TR		FA2	PS46☑
94	STIN130T1	GAP	800u	40m	5.0	400m	50m	125m			25	07	5.0u#	TR			PS4b☑
95	OPB817	GAP	1.0mØ	10m	5.0 #	400m	250u	125m	3.0		30			TR		FA2a	PS162☑
96	STIN135D1	GAP	1.0m	10m	5.0	1.2	10m	125m			25	58	150u#	DA			PS87☑
97	TIL138	GAP	1.0m	15m	500m#			125m	2.0	40m	50	4A	1.5u#	TR		♦	PS2☑
98	CLI200	GAP	1.0mØ	20m	5.0 #	500m	20m	100m	3.0 Ø	60m	40	5A§	5.0u#	TR	IRED/NPN	FA2	PS58☑
99	CLI375	GAP	1.0mØ	20m	5.0 #	500m	20m	250m	3.0 Ø	60m	30	5A§	5.0u#	TR	IRED/NPN	FA2b	PS1a☑
100	EOS8B2	GAP	1.0mØ	20m	10	1.0	50m	125m	3.0	50m	30	07☑	25u#	DA	Limit Switch	FA20b	PS32☑
101	H13B2	GAP	1.0mØ	20m	5.0 #	1.2	20m	.125	3.0	60m	25	58*	150u	TR	Darlington	FA1	PS32☑
102	H20B2	GAP	1.0mØ	20m	5.0 #	1.2	20m	125m	3.0	60m	30	58*	150u	DA		FA20b	PS134☑
103♦	H21A1	GAP	1.0mØ	20m	5.0 #	400m	30m	125m	6.0	60m	30	5A	8.0u#	TR		FA23a	PS192☑
104♦	H21A4	GAP	1.0mØ	20m	5.0 #	400m	30m	125m	6.0	60m	55	5A	8.0u#	TR		FA23a	PS192☑
105♦	H22A1	GAP	1.0mØ	20m	5.0 #	400m	30m	125m	6.0	60m	30	5A	8.0u#	TR		FA23a	PS193☑
106♦	H22A4	GAP	1.0mØ	20m	5.0 #	400m	30m	125m	6.0	60m	55	5A	8.0u#	TR		FA23a	PS193☑
107	OPB808	GAP	1.0mØ	20m	5.0 #			50m	3.0	50m	30			TR		FA2	PS6☑
108▼	OPB824	GAP	1.0m	20m	10 #	400m	20m	125m	3.0	50m	30	58		TR		FA2c	PS198☑
109	TIL148	GAP	1.0mØ	20m	5.0 #			100m	3.0	100m	30	4A	5.0u#	TR		FA2	PS6☑
110	SPX1875-2	GAP	1.0m	30m	5.0 #	800m	30m	200m	2.0	100m	50	6A*	10u	TR		FA2	PS21☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

45. SPECIAL DETECTORS

IN ORDER OF:(1)TYPE DETECTOR (2)OUTPUT CURR. (3)FWD CURR-IF & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DETECTOR	2 DETECTOR OUTPUT CURRENT IC (A)	3 IF (A)	VCC #-VCE (V)	MAX.DETECT. SAT. VOLT VCE(SAT) (V)	IF (A)	NOMIN. DIST. (in)	MAX. DIODE REV V VR (V)	MAX. DIODE FWD I IF (A)	MAX. C/E VOLT VCE (V)	TEMP RNG. CODE - +	RESP TIME (S)	TYPE OF O/P CKT	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	SPX1876-2	GAP	1.0m	30m	5.0 #	800m	30m	200m	2.0	100m	50	6A*	10u	TR		♦	PS22☑
2	OS521-060	GAP	1.0m	35m	5.0	550m	35m	60m	3.0	40m	20	07☑	25u#	TR		FA6	PS28☑
3	OS521-060L	GAP	1.0m	35m	5.0	550m	35m	60m	3.0	40m	20	07☑	25u#	TR		FA6	PS28a☑
4	OS521-060LW	GAP	1.0m	35m	5.0	550m	35m	60m	3.0	40m	20	07☑	25u#	TR		FA6	PS28a☑
5	OS521-060W	GAP	1.0m	35m	5.0	550m	35m	60m	3.0	40m	20	07☑	25u#	TR		FA6	PS28☑
6	OS521-200	GAP	1.0m	35m	5.0	550m	35m	200m	3.0	40m	20	07☑		TR		FA6	PS28☑
7	OS521-200L	GAP	1.0m	35m	5.0	550m	35m	200m	3.0	40m	20	07☑		TR		FA6	PS28a☑
8	OS521-200LW	GAP	1.0m	35m	5.0	550m	35m	200m	3.0	40m	20	07☑		TR		FA6	PS28a☑
9	OS521-200W	GAP	1.0m	35m	5.0	550m	35m	200m	3.0	40m	20	07☑		TR		FA6	PS28☑
10	OS522-060L	GAP	1.0m	35m	5.0	550m	35m	60m	3.0	40m	20	07☑	25u#	TR	Dual Channel	FA9#	PS28a☑
11	OS522-060LW	GAP	1.0m	35m	5.0	550m	35m	60m	3.0	40m	20	07☑	25u#	TR	Dual Channel	FA9#	PS28a☑
12	OS522-200L	GAP	1.0m	35m	5.0	550m	35m	200m	3.0	40m	20	07☑		TR	Dual Channel	FA9#	PS28a☑
13	OS522-200LW	GAP	1.0m	35m	5.0	550m	35m	200m	3.0	40m	20	07☑		TR	Dual Channel	FA9#	PS28a☑
14	MCA81	GAP	1.2m	16m	5.0 #	1.0	50m	.100	3.0	60m	30	5A*	150u	TR	CTR 20m	FA3	PS4☑
15	SPX1872-2	GAP	1.2m	20m	5.0 #	600m	30m	100m	2.0	100m	50	6A*	10u	TR		FA2	PS25☑
16	SPX1873-2	GAP	1.2m	20m	5.0 #	600m	30m	100m	2.0	100m	50	6A*	10u	TR		FA2	PS24☑
17	SPX1874-2	GAP	1.2m	20m	5.0 #			120m	2.0	100m	50	6A*	10u	TR		FA2	PS73☑
18	OPB806	GAP	1.6mØ	35m	5.0 #	500m	15m	125m	3.0	50m	30	5A*	2.5u#	TR			PS2a☑
19	STIN140T1	GAP	1.6m	35m	500m			330m			50	48	3.0u#	TR			PS2☑
20	OPB242	GAP	1.6mØ	40m	5.0 #	400m		125m	2.0	50m		07*	2.5u#	TR		FA2	PS46☑
21	STCD0A	GAP	1.6m	40m	5.0	1.0	50m	60m			25	48	150u#	DA			PS28☑
22	STCD1A	GAP	1.6m	40m	5.0	1.0	50m	60m			25	48	150u#	DA			PS28☑
23	STCD2A	GAP	1.6m	40m	5.0	1.0	50m	60m			25	48	150u#	DA			PS28☑
24	TIL146	GAP	1.6mØ	50m	1.0 #			100m	3.0	50m	30	6A%	3.0u#	TR			PS4☑
25	OPB815	GAP	1.8mØ	20m	600m#	600m	20m	125m	3.0	50m	30	5A*	5.0u#	TR		FA23	PS4a☑
26♦	H21B1	GAP	2.0mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	30	5A	45u#	DA		FA20b	PS192☑
27♦	H21B4	GAP	2.0mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	55	5A	45u#	DA		FA20b	PS192☑
28♦	H22B1	GAP	2.0mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	30	5A	45u#	DA		FA20b	PS193☑
29♦	H22B4	GAP	2.0mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	55	5A	45u#	DA		FA20b	PS193☑
30#	ON1104	GAP	2.0m	10m	5.0 #	1.2	20m	118m	3.0	50m	30	28	100u	DA		FA20b	PS4a
31	TIL145	GAP	2.0mØ	16m	1.0 #			100m	3.0	50m	30	6A%	3.0u#	TR			PS4☑
32	CLI230	GAP	2.0mØ	20m	5.0 #	1.0	20m	100m	3.0 Ø	60m	40	5A§	150u#	DA	IRED/NPN	FA3	PS58☑
33♦	H21A2	GAP	2.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	30	5A	8.0u#	TR		FA23a	PS192☑
34♦	H21A5	GAP	2.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	55	5A	8.0u#	TR		FA23a	PS192☑
35♦	H22A2	GAP	2.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	30	5A	8.0u#	TR		FA23a	PS193☑
36♦	H22A5	GAP	2.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	55	5A	8.0u#	TR		FA23a	PS193☑
37	OPB810	GAP	2.0m	30m	5.0 #			.200	2.0		27			TR		FA2a	PS69
38	OS581-060	GAP	2.0m	35m	5.0	1.0	35m	60m	3.0	40m	20	07☑	150u#	DA		FA20	PS28☑
39	OS581-060L	GAP	2.0m	35m	5.0	1.0	35m	60m	3.0	40m	20	07☑	150u#	DA		FA20	PS28a☑
40	OS581-060LW	GAP	2.0m	35m	5.0	1.0	35m	60m	3.0	40m	20	07☑	150u#	DA		FA20	PS28a☑
41	OS581-060W	GAP	2.0m	35m	5.0	1.0	35m	60m	3.0	40m	20	07☑	150u#	DA		FA20	PS28☑
42	OS581-200	GAP	2.0m	35m	5.0	1.0	35m	200m	3.0	40m	20	07☑		DA		FA20	PS28☑
43	OS581-200L	GAP	2.0m	35m	5.0	1.0	35m	200m	3.0	40m	20	07☑		DA		FA20	PS28a☑
44	OS581-200LW	GAP	2.0m	35m	5.0	1.0	35m	200m	3.0	40m	20	07☑		DA		FA20	PS28a☑
45	OS581-200W	GAP	2.0m	35m	5.0	1.0	35m	200m	3.0	40m	20	07☑		DA		FA20	PS28☑
46	OS582-060L	GAP	2.0m	35m	5.0	1.0	35m	60m	3.0	40m	20	07☑	150u#	DA	Dual Channel	FA12	PS28a☑
47	OS582-060LW	GAP	2.0m	35m	5.0	1.0	35m	60m	3.0	40m	20	07☑	150u#	DA	Dual Channel	FA12	PS28a☑
48	OS582-200L	GAP	2.0m	35m	5.0	1.0	35m	200m	3.0	40m	20	07☑		DA	Dual Channel	FA12	PS28a☑
49	OS582-200LW	GAP	2.0m	35m	5.0	1.0	35m	200m	3.0	40m	20	07☑		DA	Dual Channel	FA12	PS28a☑
50	CNY29	GAP	2.5mØ	20m	5.0 #	1.2	20m	125m☑	3.0	60m	25	58*	150uΔ	DA	Interrupt	FA20b	PS32
51	EOS8B1	GAP	2.5mØ	20m	10	1.0	50m	125m	3.0	50m	30	07☑	25u#	DA	Limit Switch	FA20b	PS32☑
52	H13B1	GAP	2.5mØ	20m	5.0 #	1.2	20m	.125	3.0	60m	25	58*	150u	TR	Darlington	FA1	PS32☑
53	H20B1	GAP	2.5mØ	20m	5.0 #	1.2	20m	125m	3.0	60m	30	58*	150u	DA		FA20b	PS134☑
54	SSOS700	GAP	3.0m		5.0	400m†		110m	6.0	100m		6A	8.0u#	DI		FA4	PS14☑
55	SSOS800	GAP	3.0m		5.0	400m†		120m	6.0	100m		6A	8.0u#	DI		FA4	PS15☑
56	CLI325	GAP	3.0mØ	10m	5.0 #	1.0	10m	250m	3.0 Ø	60m	30	5A§	50u#	DA	IRED/NPN	FA3b	PS1a☑
57	SPX1877-3	GAP	3.0m	30m	5.0 #	1.5	30m	375m	2.0	100m	15	6A*	500u	DA		♦	PS23☑
58	STCT0AD	GAP	3.0mØ	40m	5.0	400m	50m	60m			25	48*	10u#	TR	Switch		PS28☑
59	STCT1AD	GAP	3.0mØ	40m	5.0	400m	50m	190m			25	48*	10u#	TR	Switch		PS28a☑
60	STCT2AD	GAP	3.0mØ	40m	5.0	400m	50m	190m			25	48*	10u#	TR	Switch		PS28a☑
61	OPB243	GAP	3.2mØ	40m	5.0 #	1.1	50m	125m	2.0	50m	15	07*	20u#	DA		FA2	PS46☑
62	STCD0B	GAP	3.3mØ	40m	5.0	1.0	50m	60m			25	48*	150u#	DA			PS28☑
63	STCD1B	GAP	3.3mØ	40m	5.0	1.0	50m	60m			25	48*	150u#	DA			PS28☑
64	STCD2B	GAP	3.3mØ	40m	5.0	1.0	50m	60m			25	48*	150u#	DA			PS28☑
65♦	H21A3	GAP	4.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	30	5A	8.0u#	TR		FA23a	PS192☑
66♦	H21A6	GAP	4.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	55	5A	8.0u#	TR		FA23a	PS192☑
67♦	H22A3	GAP	4.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	30	5A	8.0u#	TR		FA23a	PS193☑
68♦	H22A6	GAP	4.0mØ	20m	5.0 #	400m	20m	125m	6.0	60m	55	5A	8.0u#	TR		FA23a	PS193☑
69	OPB809	GAP	4.0mØ	20m	5.0 #			100m	3.0	50m	30			DA		FA20c	PS69a☑
70	TIL147	GAP	4.0mØ	20m	5.0 #			100m	3.0	100m	30	4A	5.0u#	TR		FA2	PS6☑
71	SPX1875-3	GAP	4.0m	30m	5.0 #	1.5m	30m	200m	2.0	100m	15	6A*	500u	DA		FA2	PS21☑
72	SPX1876-3	GAP	4.0m	30m	5.0 #	1.5	30m	200m	2.0	100m	15	6A*	500u	DA		♦	PS22☑
73	OS561A060	GAP	4.7m	35m	5.0	400m	35m	60m	3.0	40m	25	07☑	15u#	TR		FA13	PS28☑
74	OS561A060L	GAP	4.7m	35m	5.0	400m	35m	60m	3.0	40m	25	07☑	15u#	TR		FA13	PS28a☑
75	OS561A060LW	GAP	4.7m	35m	5.0	400m	35m	60m	3.0	40m	25	07☑	15u#	TR		FA13a	PS28a☑
76	OS561A060W	GAP	4.7m	35m	5.0	400m	35m	60m	3.0	40m	25	07☑	15u#	TR		FA13a	PS28☑
77	OS561A200	GAP	4.7m	35m	5.0	400m	35m	200m	3.0	40m	25	07☑		TR		FA13	PS28☑
78	OS561A200L	GAP	4.7m	35m	5.0	400m	35m	200m	3.0	40m	25	07☑		TR		FA13	PS28a☑
79	OS561A200LW	GAP	4.7m	35m	5.0	400m	35m	200m	3.0	40m	25	07☑		TR		FA13a	PS28a☑
80	OS561A200W	GAP	4.7m	35m	5.0	400m	35m	200m	3.0	40m	25	07☑		TR		FA13a	PS28☑
81	OS562A060L	GAP	4.7m	35m	5.0	400m	35m	60m	3.0	40m	25	07☑	15u#	TR	Dual Channel	FA11	PS28a☑
82	OS562A060LW	GAP	4.7m	35m	5.0	400m	35m	60m	3.0	40m	25	07☑	15u#	TR	Dual Channel	FA11	PS28a☑
83	OS562A200L	GAP	4.7m	35m	5.0	400m	35m	200m	3.0	40m	25	07☑		TR	Dual Channel	FA11	PS28a☑
84	OS562A200LW	GAP	4.7m	35m	5.0	400m	35m	200m	3.0	40m	25	07☑		TR	Dual Channel	FA11	PS28a☑
85	MCA8	GAP	4.8m	16m	5.0 #	1.0	50m	.100	3.0	60m	30	5A*	150u	TR	CTR 120m	FA3	PS4☑
86	OS591S060L	GAP	4.9m	35m	5.0	400m	35m	60m	3.0	40m	5.0	07☑	15u#	TR		FA14	PS28a☑
87	OS591S060LW	GAP	4.9m	35m	5.0	400m	35m	60m	3.0	40m	5.0	07☑	15u#	TR		FA14	PS28a☑
88	OS591S200L	GAP	4.9m	35m	5.0	400m	35m	200m	3.0	40m	5.0	07☑		TR		FA14	PS28a☑
89	OS591S200LW	GAP	4.9m	35m	5.0	400m	35m	200m	3.0	40m	5.0	07☑		TR		FA14	PS28a☑
90	OS592S060L	GAP	4.9m	35m	5.0	400m	35m	60m	3.0	40m	5.0	07☑	50n#	TR	Dual Channel	FA10	PS28a☑
91	OS592S060LW	GAP	4.9m	35m	5.0	400m	35m	60m	3.0	40m	5.0	07☑	50n#	TR	Dual Channel	FA10	PS28a☑
92	OS592S200L	GAP	4.9m	35m	5.0	400m	35m	200m	3.0	40m	5.0	07☑		TR	Dual Channel	FA10	PS28a☑
93	OS592S200LW	GAP	4.9m	35m	5.0	400m	35m	200m	3.0	40m	5.0	07☑	50n#	TR	Dual Channel	FA10	PS28a☑
94	SPX1872-3	GAP	5.0m	20m	5.0 #	1.5	20m	100m	2.0	100m	15	6A*	500u	DA	Darlington	FA2	PS25☑
95	SPX1873-3	GAP	5.0m	20m	5.0 #	1.5	20m	100m	2.0	100m	15	6A*	500u	DA	Darlington	FA2	PS24☑
96	SPX1874-3	GAP	5.0m	20m	5.0 #	1.5	20m	120m	2.0	100m	15	6A*	500u	DA		FA2	PS73☑
97	SPX1872-4	GAP	6.0m	20m	5.0 #			100m	2.0	100m	50	6A*		TR		FA2	PS25☑
98	SPX1873-4	GAP	6.0m	20m	5.0 #			100m	2.0	100m	50	6A*		TR		FA2	PS24☑
99	SPX1874-4	GAP	6.0m	20m	5.0 #			120m	2.0	100m	50	6A*		TR		FA2	PS73☑
100	STCT0AE	GAP	6.5mØ	40m	5.0	400m	50m	60m			25	48*	10u#	TR	Switch		PS28☑
101	STCT1AE	GAP	6.5mØ	40m	5.0	400m	50m	190m			25	48*	10u#	TR	Switch		PS28a☑
102	STCT2AE	GAP	6.5mØ	40m	5.0	400m	50m	190m			25	48*	10u#	TR	Switch		PS28a☑
103	STCD0C	GAP	7.0mØ	40m	5.0	1.0	50m	60m			25	48*	150u#	DA			PS28☑
104	STCD1C	GAP	7.0mØ	40m	5.0	1.0	50m	60m			25	48*	150u#	DA			PS28☑
105	STCD2C	GAP	7.0mØ	40m	5.0	1.0	50m	60m			25	48*	150u#	DA			PS28☑
106#	GP411	GAP	8.0m	20m	2.0 #			118m	6.0	65m	35	28*	130u#	DA		FA20b	PS132☑
107♦	H21B2	GAP	10mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	30	5A	45u#	DA		FA20b	PS192☑
108♦	H21B5	GAP	10mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	55	5A	45u#	DA		FA20b	PS192☑
109♦	H22B2	GAP	10mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	30	5A	45u#	DA		FA20b	PS193☑
110♦	H22B5	GAP	10mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	55	5A	45u#	DA		FA20b	PS193☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

45. SPECIAL DETECTORS

IN ORDER OF:(1)TYPE DETECTOR (2)OUTPUT CURR. (3)FWD CURR-IF & (4) TYPE No.

LINE No.	[4] TYPE No.	[1] TYPE OF DETECTOR	[2] DETECTOR OUTPUT CURRENT IC (A)	[3] IF (A)	VCC #-VCE (V)	MAX.DETECT. SAT. VOLT VCE(SAT) (V)	IF (A)	NOMIN. DIST. (in)	MAX. DIODE REV V VR (V)	MAX. DIODE FWD I IF (A)	MAX. C/E VOLT VCE (V)	TEMP RNG. CODE - +	RESP TIME (S)	TYPE OF O/P CKT	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	CLI220	GAP	10mØ	20m	5.0 #	1.0	20m	100m	3.0 Ø	60m	40	5A§	150u#	DA	IRED/NPN	FA3	PS58☑
2	CLI355	GAP	12mØ	10m	5.0 #	1.0	10m	250m	3.0 Ø	60m	30	5A§	300u#	DA	IRED/NPN	FA33	PS1a☑
3	STCT0AG	GAP	14mØ	40m	5.0	400m	50m	60m			25	48*	10u#	TR	Switch		PS28☑
4	STCT1AG	GAP	14mØ	40m	5.0	400m	50m	190m			25	48*	10u#	TR	Switch		PS28a☑
5	STCT2AG	GAP	14mØ	40m	5.0	400m	50m	190m			25	48*	10u#	TR	Switch		PS28a☑
6♦	H21B3	GAP	25mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	30	5A	45u#	DA		FA20b	PS192☑
7♦	H21B6	GAP	25mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	55	5A	45u#	DA		FA20b	PS192☑
8♦	H22B3	GAP	25mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	30	5A	45u#	DA		FA20b	PS193☑
9♦	H22B6	GAP	25mØ	10m	1.5 #	1.0	10m	125m	6.0	60m	55	5A	45u#	DA		FA20b	PS193☑
10	112-3	GAP-02	20m		5.0	400m		62m$	3.0	50mΔ	20		2.0u	TR	Opt Switch	FA23	PS105☑
11	126-1	GAP-03				400m		150m				07	100u*	TR	Edge Sensor	FA25	PS107☑
12	125-1	GAP-12	16m		5.0	400m		18m				07			Mult Ch Read	FA24	PS106☑
13	108-2	LIMIT	50uØ	35m	15	500m	70m	80m	3.0	75m	30		5.0u#	TR		FA24	PS89☑
14	108-1	LIMIT	250uØ	35m	15	500m	70m	80m	3.0	75m	20		10u#	TR		FA24	PS89☑
15	STCT1S	LIMIT	16m	25m	5.0	400m	25m	190m			30	48	200n#	ST	SW/Schmitt		PS28a☑
16	STCT2S	LIMIT	16m	25m	5.0	400m	25m	190m			30	48	200n#	ST	SW/Schmitt		PS28a☑
17	S351	REFLEX						100m	5.0	115m	30	X7*	15u*	TR	Skanner		PS110☑
18	S351G	REFLEX						100m	5.0	115m	30	X7*	15u*	TR	Skanner		PS112☑
19	S351SR	REFLEX						70m	5.0	115m	30	X7*	15u*	TR	Skanner		PS111☑
20	S353	REFLEX						160m	5.0	115m	30	X7*	15u*	TR	Skanner		PS110☑
21	S19051	REFLEX						3.0m	5.0 $	115m$	30	X7	1.0u#	TR	Sight Glass	♦	PS114d☑
22	S19081	REFLEX						3.0m	5.0 $	115m$	30	X7	1.0u#	TR	Sight Glass	♦	PS114e☑
23	S19101	REFLEX							5.0 $	115m$	30	07*	1.0u#	TR	Sight Glass		PS114☑
24	S19111	REFLEX							5.0 $	115m$	30	07*	1.0u#	TR	Sight Glass		PS114a☑
25	S19121	REFLEX							5.0 $	115m$	30	07*	1.0u#	TR	Sight Glass		PS114b☑
26	S19141	REFLEX							5.0 $	115m$	30	07*	1.0u#	TR	Sight Glass		PS114c☑
27#	GP500	REFLEX	800nØ	50m	10 #			.040	6.0	100m	45	16*	150u	TR		♦	PS44☑
28	S58101	REFLEX	10u	115m#	5.0 #	5.0 §	115m	6.0m			20	07*	20u#	TR		FA18	PS54☑
29	TIL139	REFLEX	15u	40m	5.0 #			150m	2.0	40m	50	4A		TR		♦	PS3☑
30	STRT850F	REFLEX	20uØ	50m	5.0 #	700m	50m	400m	2.0	75m	20	4A*	60u#	TR	W/IR Filter		PS12☑
31	OPB253A	REFLEX	25uØ	40m	5.0 #	1.6 §	50m	200m	3.0	50m	25	4A		TR		FA15a	PS47☑
32	TIL149	REFLEX	25uØ	40m	5.0 #				2.0	40m	30	48%		TR			PS104☑
33	STRT900-1	REFLEX	40uØ	30m	5.0 #			500m	2.0		10	4A*	4.0u#	TR		♦	PS35d☑
34	OPB700	REFLEX	50uØ	40m	5.0 #	400m		.200	2.0		15	48*	10u#	TR			PS65
35	STRD70	REFLEX	50uØ	50m	5.0 #			400m	3.0		30	4A*	600u#	DA			PS26a☑
36	STRD70F	REFLEX	50uØ	50m	5.0 #			400m	3.0		30	4A*	600u#	DA			PS26a☑
37▼	OPB708	REFLEX	55u	40m	5.0 #			150m	2.0	40m	30	48		TR	White Refl	♦	PS3a☑
38	STRT850A	REFLEX	60uØ	50m	5.0 #	700m	50m	400m	2.0	75m	20	4A*	60u#	TR		FA15	PS12☑
39	STRT850AF	REFLEX	60uØ	50m	5.0 #	700m	50m	400m	2.0	75m	20	4A*	60u#	TR	W/IR Filter		PS12☑
40	SPX2498-1	REFLEX	70u	30m	5.0 #	2.0	50m	500m			10		6.0u#	TR			PS35e☑
41	S2005-3	REFLEX	75u	115m#	5.0 #	5.0 §	115m	10m			30 Δ	07*	1.0u#	TR	INCAND	FA18	PS54☑
42	S2005-3SR	REFLEX	75u	115m#	5.0 #	5.0 §	115m	10m			30 Δ	07*	1.0u#	TR	INCAND	FA18	PS54☑
43	FPA103	REFLEX	80u	50m	5.0 #	700m	50m	400m	3.0	75m	12	4A*	100u#	TR		FA29	PS12a☑
44	FPA106	REFLEX	80u	50m	5.0 #	700m	50m	400m	3.0	75m	12	4A*	100u#	TR	FIL	FA29	PS12a☑
45	STRT850B	REFLEX	80uØ	50m	5.0 #	700m	50m	400m	2.0	75m	20	4A*	60u#	TR		FA15	PS12☑
46	STRT850BF	REFLEX	80uØ	50m	5.0 #	700m	50m	400m	2.0	75m	20	4A*	60u#	TR	W/IR Filter		PS12☑
47	S27101	REFLEX	100uØ	50m	5.0 #	1.0		20m		60m	20	X6	50u	TR	Skanner	FA28	PS143Ø
48	S27111	REFLEX	100uØ	60m	5.0			20m		60m	20	X6	50u	TR		FA28	PS117Ø
49	S27121	REFLEX	100uØ	60m	5.0			20m		60m	20	X6	50u	TR		FA28	PS180Ø
50	S27141	REFLEX	100uØ	60m	5.0			20m		60m	20	X6	50u	TR		FA28	PS181Ø
51#	6D72	REFLEX	100uØ	100m	5.0 #	1.8	100m	.984	7.0	100m	60	5C§	500u#	TR	LED	FA5	PS16☑
52	STRT910-2	REFLEX	125uØ	30m	5.0 #			500m	2.0		50	4A*	5.0u#	TR		♦	PS35d☑
53	STRT850	REFLEX	125u	50m	5.0 #	700m	50m	400m	2.0	75m	20	4A*	60u#	TR		FA15	PS12☑
54	S11101	REFLEX	150u☑	35m	30			180m		35m	30	06		TR	IR LED	♦	PS178☑
55	OPB710	REFLEX	150uØ	50m	5.0 #			.250	3.0	50m	30	07*	10u#	TR		FA20a	PS48☑
56	QS322-3LED	REFLEX	150u	100m	5.0	1.7	100m	100m			30 Δ	X7*	1.0u*	TR	LED	FA2	PS52b☑
57	RS322-3LED	REFLEX	150u	100m	5.0	1.7	100m	100m			30 Δ	X7*	1.0u#	TR	LED	FA2	PS52e☑
58	S322-3LED	REFLEX	150u	100m	5.0	1.7	100m	100m			30 Δ	X7*	1.0u#	TR	LED	FA2	PS52☑
59	TS322-3LED	REFLEX	150u	100m	5.0	1.7	100m	100m			30 Δ	X7*	1.0u*	TR	LED	FA2	PS52dØ
60	US322-3LED	REFLEX	150u	100m	5.0	1.7	100m	100m			30 Δ	X7*	1.0u#	TR	LED	FA2	PS52a☑
61	UTS322-3LED	REFLEX	150u	100m	5.0	1.7	100m	100m			30 Δ	X7*	1.0u*	TR	LED	FA2	PS52cØ
62	S24131	REFLEX	150u☑	800m#	5.0			2.05	5.0 $	800m$	20	47	3.0u	TR	INCAND LAMP	FA18b	PS179☑
63	S24141	REFLEX	150u☑	800m#	5.0			1.7	5.0 $	800m$	20	47	3.0u	TR	INCAND LAMP	FA18b	PS179☑
64	S24151	REFLEX	150u☑	800m#	5.0			500m	5.0 $	800m$	20	47	3.0u	TR	INCAND LAMP	FA18b	PS179☑
65	FPA105	REFLEX	160u☑	50m	5.0 #	700m	50m	400m	3.0	75m	12	4A*	100u#	TR		FA29	PS12a☑
66	FPA108	REFLEX	160u☑	50m	5.0 #	700m	50m	400m	3.0	75m	12	4A*	100u#	TR	FIL	FA29	PS12a☑
67	FPA104	REFLEX	180u☑	50m	5.0 #	700m	50m	400m	3.0	75m	12	4A*	100u#	TR		FA29	PS12a☑
68	FPA107	REFLEX	180u☑	50m	5.0 #	700m	50m	400m	3.0	75m	12	4A*	100u#	TR	FIL	FA29	PS12a☑
69	OPB706C	REFLEX	200uØ	20m	5.0 #			50m	3.0	3.0 §	30	58	10u#	TR		FA2a	PS161☑
70	SPX2498-2	REFLEX	200u	30m	5.0 #	1.6	50m	500m	7.0 Ø		50		8.0u#	TR			PS35e☑
71	OPB703	REFLEX	200uØ	40m	5.0 #			.200	2.0	40m	15	06*	80u#	DA		FA8	PS65
72	SPX1404-1	REFLEX	300u	30m	5.0 #			200m	2.0	50m	10	4A*	6.0u#	TR		♦	PS37☑
73	OPB706B	REFLEX	350uØ	20m	5.0 #			50m	3.0	3.0 §	30	58	10u#	TR		FA2a	PS161☑
74	BOT521XXX	REFLEX	400u	20m	5.0			.100	5.0	50m	25	07*	20u#	TR	EOT/BOT	FA6	PS27☑
75	BOT522XXX	REFLEX	400u	20m	5.0			.100	5.0	50m	25	07*	20u#	TR	EOT/BOT	FA9#	PS27☑
76	EOT521XXX	REFLEX	400u	20m	5.0			.100	5.0	50m	25	07*	20u#	TR	EOT/BOT	FA6	PS27☑
77	EOT522XXX	REFLEX	400u	20m	5.0			.100	5.0	50m	25	07*	20u#	TR	EOT/BOT	FA9#	PS27☑
78	MCA7	REFLEX	400u	50m	5.0 #			.100	3.0	75m	30	5A*	600u#	TR	ICEO 5.0nA	FA8	PS26☑
79	OPB706A	REFLEX	500uØ	20m	5.0 #			50m	3.0	3.0 §	30	58	10u#	TR		FA2a	PS161☑
80	SPX1404-2	REFLEX	600u	30m	5.0 #			200m	2.0	50m	50	4A*	8.0u#	TR		♦	PS37☑
81	104-2	REFLEX	600u	50m	5.0	500m	50m	40m	3.0	100m	15	08*	50u#	TR		FA23	PS88☑
82	SPX1396-1	REFLEX	700u	30m	5.0 #	300m†	25m	50m	6.0	50m	15	47*	35u#	TR		FA15	PS36Ø
83	SPX1160-1	REFLEX	750u	30m	5.0 #			75m	2.0	50m	50	4A*	4.0u#	TR		♦	PS34☑
84	OPB730	REFLEX	1.0mØ	50m	5.0 #			250m	3.0	50m	30	07*	80u#	DA		FA3	PS48☑
85	QS322-3	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND	FA18	PS52b☑
86	QS322-3-0	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND w/FIL	FA18	PS52b☑
87	QS322-3IR	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND w/FIL	FA18	PS52b☑
88	RS322-3	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND	FA18	PS52e☑
89	RS322-3-0	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND w/FIL	FA18	PS52e☑
90	RS322-3IR	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND w/FIL	FA18	PS52e☑
91	S322-3	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND	FA18	PS52☑
92	S322-3-0	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND w/FIL	FA18	PS52☑
93	S322-3IR	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND w/FIL	FA18	PS52☑
94	TS322-3	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND	FA18	PS52dØ
95	TS322-3-0	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND w/FIL	FA18	PS52dØ
96	TS322-3IR	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND w/FIL	FA18	PS52dØ
97	US322-3	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND	FA18	PS52a☑
98	US322-3-0	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND w/FIL	FA18	PS52a☑
99	US322-3IR	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u#	TR	INCAND w/FIL	FA18	PS52a☑
100	UTS322-3	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND	FA18	PS52cØ
101	UTS322-3-0	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND w/FIL	FA18	PS52cØ
102	UTS322-3IR	REFLEX	1.0m	115m#	5.0 #	5.0 §	115m	100m			30 Δ	X7*	1.0u*	TR	INCAND w/FIL	FA18	PS52cØ
103	SPX1160-2	REFLEX	1.5m	30m	5.0 #			75m	2.0	50m	50	4A*	5.0u#	TR		♦	PS34☑
104	SPX1396-2	REFLEX	1.5m	30m	5.0 #	300m†	25m	50m	6.0	50m	50	47*	35u#	TR		FA15	PS36Ø
105	STRT920-3	REFLEX	2.0mØ	30m	5.0 #			500m	2.0		15	4A*	25u#	TR		♦	PS35d☑
106	OPB125A	REFLEX	2.0mØ	40m	5.0 #	1.6 §	50m	200m	3.0	50m	25	4A		DA		FA8a	PS47☑
107	SPX1396-3	REFLEX	2.5m	30m	5.0 #	300m†	25m	50m	6.0	50m	50	47*	35u#	TR		FA15	PS36Ø
108	SPX1404-3	REFLEX	4.0m	30m	5.0 #			200m	2.0	50m	15	4A*	50u#	DA		♦	PS37☑
109	SPX2498-3	REFLEX	4.0m	30m	5.0 #	1.6	50m	500m	7.0 Ø		15		50u#	DA			PS35e☑
110▼	OPB709	REFLEX	8.0m	40m	5.0 #			150m	2.0	40m	15	48		DA	White Refl	♦	PS3a☑

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

45. SPECIAL DETECTORS

IN ORDER OF:(1)TYPE DETECTOR (2)OUTPUT CURR. (3)FWD CURR-IF & (4) TYPE No.

LINE No.	4 TYPE No.	1 TYPE OF DETECTOR	2 DETECTOR OUTPUT CURRENT IC (A)	3 IF (A)	VCC #-VCE (V)	MAX.DETECT. SAT. VOLT VCE(SAT) (V)	IF (A)	NOMIN. DIST. (in)	MAX. DIODE REV V VR (V)	MAX. DIODE FWD I IF (A)	MAX. C/E VOLT VCE (V)	TEMP RNG. CODE - +	RESP TIME (S)	TYPE OF O/P CKT	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1	OPB707C	REFLEX	10mØ	20m	5.0 #			50m	3.0	3.0 §	15	58	100u#	DA	Darlington	FA20	PS161☐
2	SPX1160-3	REFLEX	10m	30m	5.0 #			75m	2.0	50m	15	4A*	25u#	TR		♦	PS34☐
3	OPB707B	REFLEX	17mØ	20m	5.0 #			50m	3.0	3.0 §	15	58	100u#	DA	Darlington	FA20	PS161☐
4	S118-1/4	REFLEX	20m		5.0	5.0	115m	375m			30 Δ	X7*	3.0u#	TR	INCAND	FA2	PS56☐
5	S120-1/4	REFLEX	20m		5.0	5.0	115m	375m			30 Δ	X7*	3.0u#	TR	INCAND	FA2	PS56a☐
6	S2005-3SRLED	REFLEX	20m☐						1.7	100m	20	07*	3.0u#	TR	Skanner		PS113☐
7	S12001	REFLEX	20m		5.0 #	5.0	200m	150m		200m	30 Δ	X7*	3.0u#	TR	LED	FA2	PS57☐
8	S56401	REFLEX	20m☐						5.0	100m	20	07*	5.0u#	TR	Lamp		PS113☐
9	S56404	REFLEX	20m☐						1.7	100m	20	07*	5.0u#	TR	LED		PS113☐
10	S2005-3LED	REFLEX	20m	100m	5.0	1.7	100m	10m		100m	30 Δ	07*	3.0u#	TR		FA2	PS54☐
11	OPB707A	REFLEX	25mØ	20m	5.0 #			50m	3.0	3.0 §	15	58	100u#	DA	Darlington	FA20	PS161☐
12	L33007/P33001	REFLEX	200m☐						2.0	200m	30	07*	3.0u#	TR			PS117Ø
13	S20001	REFLEX	250m☐						2.0	100m	20	06*	20u#	TR	Skanner		PS115☐
14	S35201	REFLEX	2.0 Ø	80u		5.0 §	115m	100m				X7*	2.0m	TR		FA18	PS99☐
15	S35202	REFLEX	2.0 Ø	80u		5.0 §	115m	100m				X7*	200u	TR		FA18	PS99☐
16	S35203	REFLEX	2.0 Ø	80u		5.0 §	115m	100m				X7*	200u	TR		FA18	PS99☐
17	S3010-3LED	REFLEX-FO	50u	100m	5.0 #			30m		100m	30	X7*	1.0u#	TR	LED w/RES	FA30	PS153☐
18	S3010-3	REFLEX-FO	50u	115m#	5.0 #	5.0 §	115m	30m			30 Δ	X7*	1.0u#	TR	INCAND	FA18	PS53☐
19	S3010-3-0	REFLEX-FO	50u	115m	5.0	5.0	115m	30m			30 Δ	X7*	1.0u#	TR	INC/.5umF:1	FA18	PS53☐
20	S3010-3B	REFLEX-FO	50u	115m#	5.0 #	5.0 §	115m	30m			30 Δ	X7*	1.0u#	TR	INCAND	FA18	PS53aØ
21	S3010-3BIR	REFLEX-FO	50u	115m#	5.0 #	5.0 §	115m	30m			30 Δ	X7*	1.0u#	TR	INC/.9umFIL	FA18	PS53aØ
22	S3010-3BO	REFLEX-FO	50u	115m#	5.0 #	5.0 §	115m	30m			30 Δ	X7*	1.0u#	TR	INC/.5umFIL	FA18	PS53aØ
23	S3010-3IR	REFLEX-FO	50u	115m#	5.0 #	5.0 §	115m	30m			30 Δ	X7*	1.0u#	TR	INC/.9umFIL	FA18	PS53☐
24	L56001/P56001	REFLEX-FO	150u	115m	5.0 #			200m		115m$	20	07*	3.0u#	TR	INC/TR PAIR	FA31	PS116☐

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

46. MISCELLANEOUS DEVICES

IN ORDER OF:(1) USE & (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	PARAMETERS ELECTRICAL MAX PWR DISS. (W)	VOLT (V)	CURR. (A)	OPTICAL Pk W/L λp (m)	INTENS. Iv (cd)	TEMP RNG. CODE - +	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1#	HLSN221	3		250mΔ		825n		5B*	2 Element;VR 2.0V;Intensity 280ftc.		PS45☑
2	PINLSC4	3		10					1 Axis;Sens .16uA/mW/.001;Resp.25uA/uW;Rc300kΩ		PS94Δ
3	PINSC10	3		10					2 Axis;Sens 1.6uA/mW/.001;Resp .25uA/uW;Rc 20kΩ		PS93Ø
4	PINSC25	3		10					2 Axis;Sens .8uA/mW/.001;Resp .25uA/uW;Rc 20kΩ		PS93aØ
5	PINSC50	3		10					2 Axis;Sens .4uA/mW/.001;Resp .25uA/uW;Rc 20kΩ		PS93bØ
6	PINSPOT2D	3		10	50u				1 Axis;300-1100nm;Sens .4uA/uW;NEP 1pW;Rc 1MΩ		PS95Ø
7	91D5R11	4		5.0	4.0u☑			15*	20 Seg Dual Bar Graph;LCD	♦	PS131Δ
8	91D7R11	4		12	4.0u☑			26*	20 Seg Dual Bar Graph;LCD	♦	PS131Δ
9▼	AND600G	4		2.1	15m☑	565n	60u	27*	10 Step Rect Green Bar Graph;LED	♦	PS188Δ
10▼	AND600R	4		2.1	15m☑	700n	80u	27*	10 Step Rect Red Bar Graph;LED	♦	PS188Δ
11	BG08120K	4		250	10m		50 §	05*	120 Ele Circular Self Scan Bar Graph Display	♦	PS77☑
12	BG12201-2	4		250	3.0m		35 §	05*	Dual 200 Ele Lin Self Scan Bar Graph Display	♦	PS75☑
13	BG12203-2	4		250	4.1m		30 §Ø	07*	2-203 Element Bar Graphs		PS100Δ
14	BG12205-2	4		250	5.0m		70 §	05*	Dual 201 ele Lin Self-Scanned Bar Graph	♦	PS130
15	BG16101-2	4		250	5.0m		60 §	05*	Dual 100 Ele Lin Self Scan Bar Graph Display	♦	PS75a☑
16	BG25201002	4	24m	70	4.5m		50 §Ø		Dual 101 Ele Bar Graph Display		PS122☑
17	FNA12	4	100m	2.0 ☑	240m♦	665n	200u	48*	Red 12-Element Bar Display	FB54	PS151☑
18#	MLA12	4	350m	1.7	20m	660n	280u	28	Red 12 Segment Bar Display	♦	PS183
19▼#	MLEV50	4	300m	2.0	50m	660n	1.4m	28	Record-Level Ind;Red and Green Cavities/5 Elemt	FB73	PS191Δ
20▼#	MLEV80	4	300m	2.0	50m	660n	1.4m	28	Record-Level Ind;Red and Green Cavities/8 Elemt		PSΔ
21▼	RBG1000	4	500m	2.0 *	250m	650n	5.0m	28	10 Elemt Display,Red;Appl;Meter,Pos Ind	FB76	PS196Δ
22	MB1101	5		25		600n		26	120m inches Shifting Dist from Center	FB5	PS13☑
23	MB1151	5		25		700n		25	120m inches Shifting Dist from Center	FB5	PS13☑
24	MPC1001	6		25		600n		26	Res 2.0kΩØ;Linearity 2.5%;Transm Ratio 80%	FB4	PS5☑
25#	MPC1001%	6	50m	10			600n	27	Res 3-20kΩ;Min Conv Ratio 85%;Max Lin ±2.5%	FB23	PS49☑
26	MPC1051	6		25		700n		25	Res 2.0kΩØ;Linearity 1.5%;Transm Ratio 80%	FB4	PS5☑
27#	MPC1051%	6	50m	10			700n	26	Res 6-30kΩ;Min Conv Ratio 90%;Max Lin ±2.0%	FB23	PS49☑
28	MPC1052	6		15		700n		26%	Res 2.0kΩØ;Linearity 3.0%;Transm Ratio 80%	FB4	PS5b☑
29	MPC1053	6		15		700n		26%	Res 2.0kΩØ;Linearity 2.5%;Transm Ratio 80%	FB4	PS5a☑
30	MPC1054	6	30m	15		700n		26%	Conv Ratio 80%;Linearity ±2.5%;Ev 100lx		PS96Ø
31#	MPC1055	6	50m	10			700n	26	Res 2-14kΩ;Min Conv Ratio 90%;Max Lin ±2.0%	FB23	PS49☑
32	C30843	7	100m	500m*		1.1u	12 $	48*	Quadrant N Silicon Pin Photodiode	FB52	PS29Ø
33	C30844	7	200m	500m*		1.1u	3.0 $	48*	Quadrant N Silicon Pin Photodiode	FB52	PS30Ø
34	C30845	7	200m	500m*		1.1u	1.2 $	48*	Quadrant N Silicon Pin Photodiode	FB52	PS30Ø
35	C30846	7		100 ♦	10m♦	1.1u		48*	Quadrant N Silicon Pin Photodiode	FB52	PS149
36	IPL30	7		20	1.0n			58*	4 Quadrant;Respons 75uA/mW;tr 30ns.	FB15	PS38*
37	IPL31	7		20	400p			58*	2 Diod;Respons 75uA/mW;tr 30ns.	FB16	PS39*
38	PINSPOT4D	7		10	50u				2 Axis;300-1100nm;Sens .4uA/uW;NEP 1pW;Rc 1MΩ		PS95aØ
39	PINSPOT8D	7		10	5.0mΔ	920n	900m$	5C	2 Axis;350-1100nm;NEP 1.5pA/Hz1/2		PS137Ø
40	PINSPOT9D	7		10	1.0mΔ	920n	641m$	5C	2 Axis;350-1100nm;NEP8.6pA/Hz1/2		PS138Ø
41	Q300	7				20u$		25	2.0un-20un;Respons 600V/W,Area 1Sq mm		
42	Q301	7	1.0			20u$		1A	Respons 1.5ua/W;C200pf,tr150ns max		PS146
43#	QD7-0	7		30	10n	900n			4 Quadrant Silicon;NEP.10pW typ at W/L 900nm	♦	PD203aØ
44#	QD7-1	7		10		430n			4 Quadrant Silicon;NEP.10pW typ at W/L 900nm	♦	PD203aØ
45#	QD7-2	7		60		900n			4 Quadrant Silicon;NEP.10pW typ at W/L 900nm	♦	PD203aØ
46#	QD7-3	7		100		900n			4 Quadrant Silicon;NEP.10pW typ at W/L 900nm	♦	PD203aØ
47#	QD7-4	7		180		1.0u			4 Quadrant Silicon;NEP.10pW typ at W/L 900nm	♦	PD203aØ
48#	QD50-0	7		30	100n	900n			4 Quadrant Silicon;NEP.33pW typ at W/L 900nm	♦	PD200aØ
49#	QD50-1	7		10		430n			4 Quadrant Silicon;NEP.33pW typ at W/L 900nm	♦	PD200aØ
50#	QD50-2	7		60		900n			4 Quadrant Silicon;NEP.33pW typ at W/L 900nm	♦	PD200aØ
51#	QD50-3	7		100		900n			4 Quadrant Silicon;NEP.33pW typ at W/L 900nm	♦	PD200aØ
52#	QD50-4	7		180		1.0u			4 Quadrant Silicon;NEP.33pW typ at W/L 900nm	♦	PD200aØ
53#	QD100-0	7		30	300n	900n			4 Quadrant Silicon;NEP.50pW typ at W/L 900nm	♦	PD201Ø
54#	QD100-1	7		10		430n			4 Quadrant Silicon;NEP.50pW typ at W/L 900nm	♦	PD201Ø
55#	QD100-2	7		60		900n			4 Quadrant Silicon;NEP.50pW typ at W/L 900nm	♦	PD201Ø
56#	QD100-3	7		100		900n			4 Quadrant Silicon;NEP.50pW typ at W/L 900nm	♦	PD201Ø
57#	QD100-4	7		180		1.0u			4 Quadrant Silicon;NEP.50pW typ at W/L 900nm	♦	PD201Ø
58#	QD320-0	7		30		900n			4 Quadrant Silicon;NEP1.0pW typ at W/L 900nm	♦	PD202aØ
59#	QD320-1	7		10		430n			4 Quadrant Silicon;NEP1.0pW typ at W/L 900nm	♦	PD202aØ
60#	QD320-2	7		60		900n			4 Quadrant Silicon;NEP1.0pW typ at W/L 900nm	♦	PD202aØ
61#	QD320-3	7		100		900n			4 Quadrant Silicon;NEP1.0pW typ at W/L 900nm	♦	PD202aØ
62#	QD320-4	7		180		1.0u			4 Quadrant Silicon;NEP1.0pW typ at W/L 900nm	♦	PD202aØ
63▼#	QDH7K	7	5.0m			900n	80kt	07	4 Quad Det;NEP 2.0pW/Hz 1/2 at 900nm;tr 30us	♦	PS189Ø
64▼#	QDH7L	7	5.0m			1.0u	75kt	07	4 Quad Det;NEP 4.0pW/Hz 1/2 at 1064nm;tr 30us	♦	PS189Ø
65♦#	QDH100-4E	7		15 ♦	40m♦	1.0u	2.5k♦		4 Quadrant w/4 Amps Active Area 100 sq mm	FB77	PS174Ø
66▼#	QDH100KHSB	7	5.0m			900n	1.0kt	07	4 Quad Det;NEP 4.0pW/Hz 1/2 at 900nm;tr 20ns	♦	PS190Ø
67▼#	QDH100LHSB	7	5.0m			1.0u	1.0kt	07	4 Quad Det;NEP 8.0pW/Hz 1/2 at 1064nm;tr 20ns	♦	PS190Ø
68	RO720A	7		5.0		800n	500n*	58	720Ele;Clock:10V,ph4,3.0MHz☑,Qsat 4.5pc	FB40	
69	TIED82	7	500m	250 Ø				6A	Id 100nA at 180V;Re 680mA/W at 900nm	♦	PS7Ø
70	FIP307	8		55	10m	904n	3.0 Δ		Laser;Pulsed tr 6ns;Rep Rate 10kHz	FB24a	PS82☑
71	FIP325	8		90	10m	904n	10 Δ		Laser;Pulsed tr 14ns;Rep Rate 5.0kHz	FB24a	PS82☑
72	FIP574	8		150	1.0m	904n	150 Δ		Laser;Pulsed tr 30ns;Rep Rate 30-200Hz	FB24a	PS82a☑
73	MLT428	8	200m♦	5.0	100m		2.0mΔ		Dig Trans Rate 10Mb/s;tr 60ns min	FB44	
74	MLT438	8	200m♦	5.0	100m		4.0mΔ		Dig. Trans rate 30Mb/s;tr 12ns typ	FB44	
75	MLT439	8	200m♦	5.0	75m		1.5mΔ		Dig. Trans rate 60Mb/s;tr 6.0ns typ	FB44	
76	256M11	9		30 ☑		820n		17*	256 Diode;Aperture Width 1x10-3 Inches	FB57	PS155*
77	256M	9		30 ☑		820n		17*	256 Diode;Aperture Width 1x10-3 Inches	FB57	PS155*
78	512M11	9		30 ☑		820n		17*	512 Diode;Aperture Width 1x10-3 Inches	FB57	PS155*
79	512M	9		30 ☑		820n		17*	512 Diode;Aperture Width 1x10-3 Inches	FB57	PS155*
80	1024M11	9		30 ☑		820n		17*	1024 Diode;Aperture Width 11x10-3 Inches	FB57	PS156*
81	1024M	9		30 ☑		820n		17*	1024 Diode;Aperture Width 11x10-3 Inches	FB57	PS156*
82	CCD110FC	9	100mt	15		750n	500n*	25	CCD;256 ele;Clock 10MHz,2ph;Dyn Range 500:1	FB36	PS41☑
83	CCD121HC	9	165mt	15		750n	1.0u*	25	CCD;1728 ele;Clock 10MHz,2ph;Dyn Range 500:1	FB37	PS86a☑
84	CCD131DC	9	165mt	15		750n	1.0u*	25	CCD;1024 ele;Clock 24MHz,2ph;Dyn Range 500:1	FB38	PS86☑
85	CCPD256	9	70m	12		800n	500n*	25	256 Ele;Clock:15V,ph 4,Video Sample Rate5.0MHz	FB39	
86	CCPD1024	9	70m	12		800n	500n*	25	1024 Ele;Clock:15V,ph4,Video Sample Rate5.0MHz	FB39	PS135☑
87	CCPD1728	9	70m	12		800n	500n*	25	1728Ele;Clock:15V,ph4,Video Sample Rate5.0MHz	FB39	PS136☑
88	IPL3010	9		-25 ☑			24 ♦	17*	10 Diode;Self Scan Array;4.0MHz Typ-2.0MHz min	FB31c	PS182Ø
89	IPL3016	9		-25 ☑			24 ♦	17*	16 Diode;Self Scan Array;4.0MHz Typ-2.0MHz min	FB31d	PS182Ø
90	IPL3032	9		-25 ☑			24 ♦	17*	32 Diode;Self Scan Array;4.0MHz Typ-2.0MHz min	FB31d	PS182Ø
91	IPL4050	9		10 Δ				17*	50 Diode;Self-Scanned Arr;4.0MHztyp-10KHz min	FB31a	PS120Δ
92	IPL4064	9		10 Δ				17*	64 Diode;Self-Scanned Arr;4.0MHztyp-10KHz min	FB31	PS120Δ
93	IPL4100	9		10 Δ				17*	100 Diode;Self-Scanned Arr;4.0MHz typ-10KHz min	FB31a	PS120Δ
94	IPL4128	9		10 Δ				17*	128 Diode;Self-Scanned Arr;4.0MHz typ-10KHz min	FB31	PS120Δ
95	IPL4256	9		10 Δ				17*	256 Diode;Self-Scanned Arr;4.0MHz typ-10KHz min	FB31b	PS121Δ
96	IPL7050	9		-30				07*	50 Diode;Self Scanned Array;20MHz min-10kHz max	FB17	PS18d☑
97	IPL7064	9		-30				07*	64 Diode;Self Scanned Array;20MHz min-10kHz max	FB17	PS18e☑
98	IPL7100	9		-30				07*	100 Diod;Self Scanned Array;20MHz min-10kHz max	FB17	PS18f☑
99	IPL7128	9		-30				07*	128 Diod;Self Scanned Array;20MHz min-10kHz max	FB17	PS18g☑
100	IPL7256	9		-30				07*	256 Diod;Self Scanned Array;20MHz min-10kHz max	FB18	PS18b☑
101#	MN512K	9	5.0m	300m*				26	512 Ele;Clock:17V,5.0MHz☑,Qsat 5.4pc		PS133☑
102#	OR064S	9				800n		28*	64 Diode;Self Scanned Array;Sen.57 pa/lx	FB33	PS127☑
103#	OR128S1	9				850n		28*	128 Diode;Self Scanned Array;Sen.18 pA/lx	FB33a	PS127☑
104#	OR128S	9				800n		28*	128Diode;Self Scanned Array;Sen.160pA/lx	FB33a	PS127☑
105	RL16	9	25mt	15		800n	800n*	58%	16 Ele;Clock:5.0V,ph 1,500kHz☑;Qsat 20pc	FB10	PS19☑
106	RL64	9	125mt	15		800n	800n*	5C%	64 Photodiodes;Clock-15V,ph2,Rate 1k to 10MHz	FB12	PS20☑
107	RL64EL	9	2.0mt	12		800n	800n*	5C%	64 Photodiodes;Clock-12V,ph2,Rate 2k to 10MHz	FB11	PS19a☑
108	RL64P	9	150mt	15		800n	800n*	5C%	64 Ele;Clock:15V,ph 1,1.0MHz☑;Qsat 3.9pc	FB13	PS20☑
109	RL128EC17	9	1.5mt	12		800n	800n*	5C%	128 Ele;Clock:12V,ph 2,10MHz☑;Qsat 3.2pc	FB8	PS18Δ
110	RL128EC	9	1.5mt	12		800n	800n*	5C%	128 Ele;Clock:12V,ph 2,10MHz☑;Qsat 4.0pc	FB8	PS18Δ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

46. MISCELLANEOUS DEVICES

IN ORDER OF:(1) USE & (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	PARAMETERS ELECTRICAL MAX PWR DISS. (W)	VOLT (V)	CURR. (A)	OPTICAL Pk W/L λp (m)	INTENS. Iv (cd)	TEMP RNG. CODE - +	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☐-RECT. Δ-STRIP *-CHIP
1	RL128G	9	45m	12		800n	4.0u*	5C%	128element;clock8.5V;ph1;2.0MHz☐;Øsat3.2pc	FB8a	PS18☐
2	RL128L#1	9	4.0m†	12		800n	800n*	5C%	64 Photodiodes;Clock-12V,ph2,Rate 2k to 10MHz	FB11	PS19a☐
3	RL128L#2	9	4.0m†	12		800n	800n*	5C%	128 Photodiodes;Clock-12V,ph2,Rate 2k to 10MHz	FB11	PS19a☐
4	RL256C17	9	3.0m†	12		800n	800n*	5C%	256 Ele;Clock:12V,ph 4,10MHz☐;Qsat 3.2pc	FB8a	PS18Δ
5	RL256C	9	3.0m†	12		800n	800n*	5C%	256 Ele;Clock;12V,ph 4,10MHz☐;Qsat 4.0pc	FB8a	PS18Δ
6	RL256EC17	9	1.5m†	12		800n	800n*	5C%	256 Ele;Clock:12V,ph 2,10MHz☐;Qsat 3.2pc	FB8	PS18aΔ
7	RL256EC	9	1.5m†	12		800n	800n*	5C%	256 Ele;Clock:12V,ph 2,10MHz☐;Qsat 4.0pc	FB8	PS18aΔ
8	RL256G	9	45m	12		800n	4.0u*	5C%	256element;clock8.5V;ph1;2.0MHz☐;Øsat3.2pc	FB8a	PS18☐
9	RL384EC17	9	1.5m†	12		800n	800n*	5C%	384 Ele;Clock:12V,ph 2,10MHz☐;Qsat 3.2pc	FB8	PS18bΔ
10	RL384EC	9	1.5m†	12		800n	800n*	5C%	384 Ele;Clock:12V,ph 2,10MHz☐;Qsat 4.0pc	FB8	PS18bΔ
11	RL512B24	9	4.0m†	12		800n	800n*	5C%	512 Ele;Clock:12V,ph 2,40MHz☐;Qsat 3.6pc	FB9a	PS18bΔ
12	RL512B	9	4.0m†	12		800n	800n*	5C%	512 Ele;Clock:12V,ph 2,40MHz☐;Qsat 4.6pc	FB9a	PS18bΔ
13	RL512C17	9	3.0m†	12		800n	800n*	5C%	512 Ele;Clock:12V,ph 4,10MHz☐;Qsat 3.2pc	FB8a	PS18aΔ
14	RL512C	9	3.0m†	12		800n	800n*	5C%	512 Ele;Clock:12V,ph 4,10MHz☐;Qsat 4.0pc	FB8a	PS18aΔ
15	RL512EC17	9	1.5m†	12		800n	800n*	5C%	512 Ele;Clock:12V,ph 2,10MHz☐;Qsat 3.2pc	FB8	PS18cΔ
16	RL512EC	9	1.5m†	12		800n	800n*	5C%	512 Ele;Clock:12V,ph 2,10MHz☐;Qsat 4.0pc	FB8	PS18cΔ
17	RL512G	9	45m	12		800n	5.0u*	5C%	512element;clock8.5V;ph1;2.0MHz☐;Øsat3.2pc	FB8a	PS18☐
18	RL512S	9	1.0m	15 ▼		700n	61n*	78*	512 Elem 2.0MHz max;Quarts Window;Id 5.0pA	FB69	PS177
19	RL512SF	9	1.0m	15 ▼		700n		78*	512 Elem 2.0MHz max;FO Face Plate;Id 5.0pA	FB69	PS177
20	RL768C17	9	3.0m†	12		800n	800n*	5C%	768 Ele;Clock:12V,ph 4,10MHz☐;Qsat 3.2pc	FB8a	PS18bΔ
21	RL768C	9	3.0m†	12		800n	800n*	5C%	768 Ele;Clock:12V,ph 4,10MHz☐;Qsat 4.0pc	FB8a	PS18bΔ
22	RL936F	9	4.0m†	12		800n	800n*	5C%	936 Photodiodes;Clock-12V,ph2,Rate to 20MHz	FB27a	PS78a☐
23	RL1024B24	9	4.0m†	12		800n	800n*	5C%	1024 Ele;Clock:12V,ph 2,40MHz☐;Qsat 3.6pc	FB9	PS18cΔ
24	RL1024B	9	4.0m†	12		800n	800n*	5C%	1024 Ele;Clock:12V,ph 2,40MHz☐;Qsat 4.6pc	FB9	PS18cΔ
25	RL1024C17	9	3.0m†	12		800n	800n*	5C%	1024 Ele;Clock:12V,ph 4,10MHz☐;Qsat 3.2pc	FB8a	PS18cΔ
26	RL1024C	9	3.0m†	12		800n	800n*	5C%	1024 Ele;Clock:12V,ph 4,10MHz☐;Qsat 4.0pc	FB8a	PS18cΔ
27	RL1024G	9	45m	12		800n	7.0u*	5C%	1024element;clock8.5V;ph1;2.0MHz☐;Øsat3.2pc	FB8a	PS18☐
28	RL1024H	9	45m	12		800n	.90u*	5C%	1024element;clock8.5V;ph1;2.0MHz☐;Øsat3.2pc	FB8a	PS18☐
29	RL1024S	9	1.0m	15 ▼		700n	61n*	78*	1024 Elem 2.0MHz max;Quarts Window;Id 5.0pA	FB69	PS177a
30	RL1024SF	9	1.0m	15 ▼		700n		78*	1024 Elem 2.0MHz max;FO Face Plate;Id 5.0pA	FB69	PS177a
31	RL1728H	9	45m	12		800n	.90u*	5C%	1728element;clock8.5V;ph1;2.0MHz☐;Øsat3.2pc	FB8a	PS18☐
32	RL1872F	9	4.0m†	12		800n	800n*	5C%	1872 Photodiodes;Clock-12V,ph2,Rate to 20MHz	FB27	PS78☐
33	RQ64	9	2.5m†	12		1.1u$	1.6u*	5C%	Circ 64 Ele;Clock:12V,ph 2,25MHz☐;Qsat 16pc	FB6	PS17☐
34	2D1	10		-25 ☐			1.45 ♦		4096 Diode;Self Scan Array;3.0MHz Typ-10kHz min		
35	CCD202ADC	10	75m†	15		850n	400n*	25	CCD;100x100 ele;Dyn Rge 300:1,Data 500 frame/s	FB35	PS119☐
36	CCD202BDC	10	75m†	15		850n	400n*	25	CCD;100x100 ele;Dyn Rge 300:1,Data 500 frame/s	FB35	PS119☐
37	CCD211ADC	10	75m†	15		850n	200n*	25	CCD;244x190 ele;Dyn Rge 300:1,Data 100 frame/s	FB34	PS118☐
38	CCD211BDC	10	75m†	15		850n	200n*	25	CCD;244x190 ele;Dyn Rge 300:1,Data 100 frame/s	FB34	PS118☐
39	CCD211CDC	10	75m†	15		850n	200n*	25	CCD;244x190 ele;Dyn Rge 300:1,Data 100 frame/s	FB34	PS118☐
40	RA32x32A	10	10m†	12		1.1u$	320n*	58%	32x32 Ele;Clock:12V,ph 4,5.0MHz☐;Qsat 1.6pc	FB7	PS17☐
41	RA50x50A	10	10m†	12		1.1u$	320n*	58%	50x50 Ele;Clock:12V,ph 4,5.0MHz☐;Qsat 1.6pc	FB7	PS17☐
42	RA100X100	10							100X100 element;2.36mil spacing		
43	SID52501AD	10		20 ♦		700n		16*	CCD 512x320 TV Sensor;Low Perf;3250uA/Lm Typ	FB32	PS31Δ
44	SID52501BD	10		20 ♦		700n		16*	CCD 512x320 TV Sensor;Hi Perf;3250uA/Lm Typ	FB32	PS31Δ
45	SL62818	10	75m†	15 ♦		850n		25*	CCD;244x190 Sensor Type A with FGA and DFGA	FB34	PS118☐
46	120-1	11		5.0	125m				Sensitivity 7FL min,Response Time 500ns		
47	2-412	12				35u$		28	Responsivity 15V/W;Active Area 1sq mm		TO5Ø
48	C1BF0	12						67	Responsivity 7.0v/w,Window BaF2,Oxide Block		PS101Ø
49	C1BF3	12						67	Responsivity 7.0v/w,Window BaF2,Oraganic Block		PS101Ø
50	C1CF0	12						67	Responsivity 7.0v/w,Window CaF2,Oxide Block		PS101Ø
51	C1CF3	12						67	Responsivity 7.0v/w,Window CaF2,Organic Block		PS101Ø
52	C1GE0	12						67	Responsivity 7.0v/w,Window Ge, Oxide Block		PS101Ø
53	C1GE3	12						67	Responsivity 7.0v/w,Window Ge, Organic Block		PS101Ø
54	C1I2-0	12						67	Responsivity 7.0v/w,Window Irtran, Oxide Block		PS101Ø
55	C1I2-3	12						67	Responsivity 7.0V/w,Window Irtran,Organic Blck		PS101Ø
56	C1KB0	12						67	Responsivity 7.0v/w,Window kBr, Oxide Block		PS101Ø
57	C1KB3	12						67	Responsivity 7.0v/w,Window kBr, Organic Block		PS101Ø
58	C1KR0	12						67	Responsivity 7.0v/w,Window kRs-5 Oxide Block		PS101Ø
59	C1KR3	12						67	Responsivity 7.0v/w,Window kRs-5,Organic Block		PS101Ø
60	C1S00	12						67	Responsivity 7.0v/w,Window Si, Oxide Block		PS101Ø
61	C1S03	12						67	Responsivity 7.0v/w,Window Si, Organic Block		PS101Ø
62	L22BF0	12						67	Responsivity 20v/w,Window BaF2,Oxide Block		PS101aØ
63	L22BF3	12						67	Responsivity 20v/w,Window BaF2,Organic Block		PS101aØ
64	L22CF0	12						67	Responsivity 20v/w,Window CaF2,Oxide Block		PS101aØ
65	L22CF3	12						67	Responsivity 20v/w,Window CaF2,Organic Block		PS101aØ
66	L22GE0	12						67	Responsivity 20v/w,Window GE,Oxide Block		PS101aØ
67	L22GE3	12						67	Responsivity 20v/w,Window Ge,Organic Block		PS101aØ
68	L22I2-0	12						67	Responsivity 20v/w,Window Irtran 2 Oxide Block		PS101aØ
69	L22I2-3	12						67	Responsivity 20v/w,Window Irtran2,Organic Block		PS101aØ
70	L22KB0	12						67	Responsivity 20v/w,Window kBr,Oxide Block		PS101aØ
71	L22KB3	12						67	Responsivity 20v/w,Window kBr,Organic Block		PS101aØ
72	L22KR0	12						67	Responsivity 20v/w,Window kRs-5,Oxide Block		PS101aØ
73	L22KR3	12						67	Responsivity 20V/W,Window KRS-5,Organic Black		PS101aØ
74	L22S00	12						67	Responsivity 20v/w,Window Si,Oxide Block		PS101aØ
75	L22S03	12						67	Responsivity 20v/w,Window Si,Organic Block		PS101aØ
76	L66BF0	12						67	Responsivity 1.0v/w,Window BaF2,Oxide Block		PS102Ø
77	L66BF3	12						67	Responsivity 1.0v/w,Window BaF2,Organic Block		PS102Ø
78	L66CF0	12						67	Responsivity 1.0v/w,Window CaF2,Oxide Block		PS102Ø
79	L66CF3	12						67	Responsivity 1.0v/w,Window CaF2,Organic Block		PS102Ø
80	L66GE0	12						67	Responsivity 1.0v/w,Window GE,Oxide Block		PS102Ø
81	L66GE3	12						67	Responsivity 1.0v/w,Window Ge,Organic Block		PS102Ø
82	L66I2-0	12						67	Responsivity 1.0v/w,Window Irtran2,Oxide Block		PS102Ø
83	L66I2-3	12						67	Responsivity 1.0v/w,Window Irtran2,Org.Block		PS102Ø
84	L66KB0	12						67	Responsivity 1.0V/W,Window kBr,Oxide Bl		PS102Ø
85	L66KB3	12						67	Responsivity 1.0v/w,Window kBr,Organic Block		PS102Ø
86	L66KR0	12						67	Responsivity 1.0v/w,Window kRs-5,Oxide Block		PS102Ø
87	L66KR3	12						67	Responsivity 1.0v/w,Window kRs-5,Organic Block		PS102Ø
88	L66S00	12						67	Responsivity 1.0v/w,Window Si,Oxide Block		PS102Ø
89	L66S03	12						67	Responsivity 1.0v/w,Window Si,Organic Block		PS102Ø
90	S15BF0	12						67	Responsivity 8v/w,Window BaF2,Organic Block		PS101bØ
91	S15BF3	12						67	Responsivity 8V/W,Window BaF2,Oxide Bl		PS101bØ
92	S15CF0	12						67	Responsivity 8v/w,Window CaF2,Organic Block		PS101bØ
93	S15CF3	12						67	Responsivity 1.0V/W,Window CaF2,Org Bl		PS101bØ
94	S15GE0	12						67	Responsivity 8v/w,Window Ge,Oxide Block		PS101bØ
95	S15GE3	12						67	Responsivity 8.0V/W,Window Ge,Org BL		PS101bØ
96	S15I2-0	12						67	Responsivity 8v/w,Window Irtran2,Oxide Block		PS101bØ
97	S15I2-3	12						67	Responsivity 8.0V/W,Window Irtran 2,Org Bl		PS101bØ
98	S15KB0	12						67	Responsivity 8v/w,Window kBr,Oxide Block		PS101bØ
99	S15KB3	12						67	Responsivity 8v/w,Window kBr,Organic Block		PS101bØ
100	S15KR0	12						67	Responsivity 8.0V/W,Window KRS-5,Oxide BL		PS101bØ
101	S15KR3	12						67	Responsivity 8v/w,Window kRs-5,Organic Block		PS101bØ
102	S15S00	12						67	Responsivity 8v/w,Window Si,Oxide Block		PS101bØ
103	S15S03	12						67	Responsivity 8v/w,Window Si,Organic Block		PS101bØ
104	FRL4403	13	200m	5.0	20m	650m	1.2m	07	Flashing LED;Pulse Rate 3 Times 1 sec	♦	PS185Ø
105	L150	13	575m	5.0 ☐	115m☐			27	Subminiature Incandescent Light Source		PS117aØ
106	L150LED	13	170m	1.7 *	100m☐	900n		27	Subminiature LED Light Source		PS117aØ
107	L311	13	575m	5.0 ☐	115m☐			27	Subminiature Incandescent Light Source		PS123☐
108	L321	13	575m	5.0 ☐	115m☐			27	Subminiature Incandescent Light Source		PS124☐
109	L332	13	575m	5.0 ☐	115m☐			27	Subminiature Incandescent Light Source		PS125☐
110	L341	13	575m	5.0 ☐	115m☐			27	Subminiature Incandescent Light Source		PS117bØ

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

46. MISCELLANEOUS DEVICES

IN ORDER OF:(1) USE & (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	PARAMETERS ELECTRICAL MAX PWR DISS. (W)	VOLT (V)	CURR. (A)	OPTICAL Pk W/L λp (m)	INTENS. Iv (cd)	TEMP RNG. CODE - +	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1	2D1PDA	14	4.5 †	18 ♦	160m			05*	Processor Driver;25-200 Frames/Sec;Vid Out 5V	FB59	PS157
2	304	14		50	80u			5F	Imp.Converter;Vgs(off)1.0V,Zo 5kΩ	FB48	
3	704-1549	14	275m	5.0	55m			07	BCD to 7-Seg Dec Dvr;IOL 30mA max;Voff 15V max		
4	DK48	14		15 ♦	15m			28	Trans Z 100kΩ,BW 20MHz,Noise 1.2mV	FB41	PS140☑
5	DV45	14		15 ♦	15m			28	Trans Z 400kΩ,BW 5.0MHz,Noise 2.0mV	FB41	PS140☑
6	FX41	14		200 ♦					Pk I pulse 80A Laser Load,PRF 1.0kHz,Trig2.0VØ	FB42	
7	FX45	14		90 ♦					Pk I pulse 20A Laser Load,PRF 10kHz,Trig2.0VØ	FB42	
8	FX47	14		90 ♦					Pk I pulse 15A Laser Load,PRF 15kHz,Trig2.0VØ	FB42	
9	MA41	14		15 ♦	6.0m			28	Trans Z 90kΩ,BW1.0MHz,Noise 120uV max	FB43	PS141Ø
10	MA7705	14		15 ♦	6.0m			28	Trans Z 22kΩ,BW12MHz,Noise 90uV max	FB43	PS141Ø
11	MA7708	14		15 ♦	6.0m			28	Trans Z7.0kΩ,BW50MHz,Noise 80uV max	FB43	PS141Ø
12	MA7710	14		15 ♦	6.0m			28	Trans Z 2.0kΩ,BW100MHz,Noise 70uV max	FB43	PS141Ø
13	MG7712	14	90m	15 ♦	6.0m♦			28*	Trans Z 1.0kΩ;Noise 150uV;BW 150MHz	FB43	PS141Ø
14	MPDA	14	4.5 †	18 ♦	160m			07*	Processor Driver;1kHz to 2MHz;Vid Out 10V	FB60	PS158
15	PN11454-5	14	11	12 §	2.5 Ø			05*	Temp Contr(0.1C°max);For TO 5 Can Detector	FB68	PS175☑
16	PN11454-5SP	14	11	12 §	2.5 Ø			05*	Temp Contr(0.1C°max);For TO 5 Can Detector	FB68b	PS175b☑
17	PN11454-5TP	14	11	12 §	2.5 Ø			05*	Temp Contr(0.1C°max);For TO 5 Can Detector	FB68a	PS175a☑
18	PN11454-8	14	11	12 §	2.5 Ø			05*	Temp Contr(0.1C°max);For TO 8 Can Detector	FB68	PS175☑
19	PN11454-8SP	14	11	12 §	2.5 Ø			05*	Temp Contr(0.1C°max);For TO 8 Can Detector	FB68b	PS175b☑
20	PN11454-8TP	14	11	12 §	2.5 Ø			05*	Temp Contr(0.1°Cmax);For TO 8 Can Detector	FB68a	PS175a☑
21	PN11596	14		30 §				07*	IR Det Preamp;Vi 800V max;Gain 10 At 1.0MHz min	♦	PS176☑
22	TIEF150	14	35m	8.0 ♦	6.0m♦			5C*	Trans Z;BW 100 MHz;Zin 70Ω;Zout 5Ω	FB55	PS152
23	TIEF151	14	35m	8.0 ♦	6.0m♦			5C*	Trans Z;BW 50 MHz;Zin 140Ω;Zout 10Ω	FB55	PS152
24	TIEF152	14	40m	8.0 ♦	7.0m♦			5C*	Trans Z;BW 20 MHz;Zin 500Ω;Zout 12Ω	FB55	PS152
25	C30910E	15	150m	12 ♦	4.0m§	900n	39u♦	47*	NEP 38fW/Hz 1/2;BW 50MHz;tr 9.0ns;Zo 25Ω	FB70	PS187
26	C30914E	15	150m	12 ♦	4.0m§	900n	26u♦	47*	NEP 77fW/Hz 1/2;BW 30MHz;tr 16ns;Zo 25Ω	FB70	PS187
27	C30917E	15	150m	12 ♦	4.0m§	900n	34u♦	47*	NEP 44fW/Hz 1/2;BW 50MHz;tr 9.0ns;Zo 25Ω	FB70	PS187
28	FOD100	15		90		920n	620m▼	57*	NEP(.90nm,10MHz,1.0Hz).29 pW/Hz 1/2;tr 1.0ns	FB56	PS142☑
29#	FRD1-0	15	100m♦	30 ☑	5.0mΔ	900n	420m▼	07*	Photodiode;NEP 140fW/Hz 1/2;tr 15nS;ID 15nA	FB51	
30#	FRD1-2	15	100m♦	60 ☑	5.0mΔ	630n	290m▼	07*	Photodiode;NEP 160fW/Hz 1/2;tr 10nS;ID 10nA	FB51	
31#	FRD1-3	15	100m♦	100 ☑	5.0mΔ	900n	460m▼	07*	Photodiode;NEP 130fW/Hz 1/2;tr 10nS;ID 15nA	FB51	
32#	FRD1-3HSA	15	100m♦	100 ☑	5.0mΔ	900n	420mØ▼	07*	Photodiode;NEP 75fW/Hz 1/2;tr 2.0nS☑;ID 5.0nA	FB51	
33#	FRD1-4	15	100m♦	180 ☑	5.0mΔ	1.0u	360m▼	07*	Photodiode;NEP 180fW/Hz 1/2;tr 20nS;ID 20nA	FB51	
34#	FRD1-4HSA1	15	100m♦	100 ☑	5.0mΔ	1.0u	200mØ▼	07*	Photodiode;NEP 160fW/Hz 1/2;tr 10nS☑;ID 10nA	FB51	
35#	FRD1-4HSA2	15	100m♦	180 ☑	5.0mΔ	1.0u	300mØ▼	07*	Photodiode;NEP 130fW/Hz 1/2;tr 15nS☑;ID 10nA	FB51	
36#	FRI1K1	15		30 §	1.3m☑	650n	3.0M♦	07*	Noise 1.0mVrms;BW 3dB 5.0kHz;tr,tf 30ns	FB45	
37#	FRI1K2	15		30 §	1.3m☑	900n	4.0M♦	07*	Noise 1.0mVrms;BW 3dB 5.0kHz;tr,tf 30ns	FB45	
38#	FRI1KHSA1	15		12 §	18m	650n	70k♦	07*	Noise 5.0mVrms;BW 3dB 6.0MHz;tr,tf 40ns	FB46	
39#	FRI1KHSA2	15		12 §	18m	900n	130k♦	07*	Noise 5.0mVrms;BW 3dB 6.0MHz;tr,tf 40ns	FB46	
40#	FRI1L	15		30 §	1.3m☑	1.0n	2.3M♦	07*	Noise 1.0mVrms;BW 3dB 5.0kHz;tr,tf 30ns	FB45	
41#	FRI1LHSA	15		12 §	18m	1.0u	77k♦	07*	Noise 5.0mVrms;BW 3dB 6.0MHz;tr,tf 40ns	FB46	
42▼	HFBR-2001	15	500m	5.0 §	100m§	770n		07	Opt Range 23dB,10Mb/s NRZ;10(-9)BER W/0.8uW Inp	FB75	PS194
43	MC31	15		120 ☑		905n	450m▼		Photo diode;Active Area .8 sq mm	FB71	TO5Ø
44	MD25	15		240 ☑		830n	65 ▼		Avalanche Photodiode;Active Area .2 sq mm		TO18Ø
45	MD31	15		120 ☑		905n	660m▼		Photo diode;Active Area .8 sq mm	FB71	TO5Ø
46	MD34	15		300 ☑		830n	60 ▼		Avalanche Photodiode;Active Area .5 sq mm		TO5Ø
47	TIED452	15	630m	238 §	20m	900n	200k♦	06*	Dig Recvr Rate 50Mb/s☑;Avalanche;NEP 1.5p	FB63	PS8Ø
48#	FTIR1	16	200m†	2.0 *	100m	940n	300uΔ	5A	Anal Freq Resp 1.0MHz;tr,tf 700ns	FB47	
49#	FTIR2	16	500m†	5.0 *	100m	890n	1.0uΔ	05	Laser;tr 7.0ns	FB50	
50#	FTVR1	16	40m†	2.0 *	20m	650n	2.0uΔ	5A	Anal Freq Resp 5.0MHz;tr,tf 60ns	FB47	
51#	FTVR2	16	150m†	3.5 *	40m	560n	3.0uΔ	5A	Anal Freq Resp 6.0MHz;tr,tf 40ns	FB47	
52▼	HFBR-1001	16	625m	5.0 §	125m§	700n		07	dc to 10Mb/s NRZ;TTL Input to Opt Pulses:100M	FB74	PS194
53	ML25	16	500m	2.0 *	353m*	830n			IR LED;BW DC to 200MHz;Radiated Pwr 1.0mW		
54	ML25P	16	500m	2.0 *	353m*	830n			IR LED;BW DC to 200MHz;Radiated Pwr 150uW		
55	ML25P-SF3	16	500m	2.0 *	353m*	830n			IR LED;BW DC to 200MHz;Radiated Pwr 50uW		
56♦	ML25P-TS	16	500m	2.0 *	353m*	830n			IR LED For Systems MDL151,MDL154 And MDL358		
57	ML32	16	600m	1.8 *	707m*	885n			IR LED;BW 8.0MHz;Radiated Pwr 1.5mW	FB67	TO5Ø
58♦	ML32-TS	16	600m	1.8 *	707m*	885n			IR LED For Systems MDL124 And MDL321	FB67	TO5Ø
59	ML33	16	400m	1.7 *	353m*	905n			IR LED;BW 30MHz;Radiated Pwr 2.0mW	FB67	TO5Ø
60♦	ML33-TS	16	400m	1.7 *	353m*	905n			IR LED For Systems MDL139 And MDL338	FB67	TO5Ø
61	ML37	16	400m	1.7 *	7.7m*	830n			IR LED;BW 35MHz;Radiated Pwr 14mW	FB67	TO5Ø
62♦	MLT428-TS	16	200m♦	5.0	100m		2.0mΔ		Trans For Systems MDL421 And MDL4211	FB44	TO5Ø
63♦	MLT438-TS	16	200m♦	5.0	100m		4.0mΔ		For Systems MDL435,MDL437,MDL438 And MDL4377	FB44	TO5Ø
64	TIES472	16	1.6 †	5.0	325m	910n	1.0mΔ	06*	Dig Trans Rate 100kHz☑;TTL Compatible	FB1	PS8Ø
65▼	AOF-1050	17				890n			Fused Silica Fiber for Use W/XA/RA,XD/RD-1000		
66▼	AOF-1052	17				890n			Large Core Silica Fiber Use W/XA/RA,XD/RD-1000		
67▼	AOF-1300	17				660n			Single Plastic Fiber for Use W/XA/RA,XD/RD-1000		
68▼	HFBR-3001	17						27	LN 10M,Single Fbs,0.3NA Conn/Cable Assy		PS195
69▼	HFBR-3002	17						27	LN 25M,Single Fbs,0.3NA Conn/Cable Assy		PS195
70▼	HFBR-3003	17						27	LN 50M,Single Fbs,0.3NA Conn/Cable Assy		PS195
71▼	HFBR-3004	17						27	LN 75M,Single Fbs,0.3NA Conn/Cable Assy		PS195
72▼	HFBR-3005	17						27	LN 100M,Single Fbs,0.3NA Conn/Cable Assy		PS195
73	SPX3180	17	100u*		50m*			6A*	905 Recepticle W/LED;NA .66;F Dia 1.14mm		PS167Ø
74	SPX3181	17	900u*		100m*			6C*	905 Recepticle W/LED;NA .24;F Dia 1.14mm		PS167Ø
75	SPX3182	17	8.0u*		100m*			6C*	905 Recepticle W/LED;NA .14;F Dia 125um		PS167Ø
76	SPX3183	17	50u*		8.0u*			6C*	905 Recepticle W/Photodiode;NA .66;F Dia 1.14mm		PS167Ø
77	SPX3184	17	150m*		25u*			6C*	905 Recepticle W/Photodiode;NA .24;F Dia 1.14mm		PS167Ø
78	SPX3185	17	150m					6C*	905 Recepticle W/Photodiode		PS167Ø
79	SPX3186	17	50m*		2.0m*			6C*	905 Recepticle W/Photodiode;NA .66;F Dia 1.14mm		PS167Ø
80	SPX3187	17	50m*		8.0m*			67*	905 Recepticle W/Photodiode;NA .66;F Dia 1.14mm		PS167Ø
81	SPX3190	17	100u*		50m*			6A*	905 Recepticle W/LED;NA .66;F Dia 1.14mm		PS168Ø
82	SPX3191	17	900u*		100m*			6C*	905 Recepticle W/LED;NA .24;F Dia 1.14mm		PS168Ø
83	SPX3192	17	8.0u*		100m*			6C*	905 Recepticle W/LED;NA .14;F Dia 125um		PS168Ø
84	SPX3193	17	50u*		8.0u*			6C*	905 Recepticle W/Photodiode;NA .66;F Dia 1.14mm		PS168Ø
85	SPX3194	17	150m*		25u*			6C*	905 Recepticle W/Photodiode;NA .24;F Dia 1.14mm		PS168Ø
86	SPX3195	17	150m					6C*	905 Recepticle w/Photodiode		PS168Ø
87	SPX3196	17	50m	5.0	2.0m*			6C*	905 Recepticle w/Photodiode;NA .66;F Dia 1.14mm		PS168Ø
88	SPX3197	17	50m*	5.0	8.0m*			67*	905 Recepticle W/Photodiode;NA .66;F Dia 1.14mm		ps168Ø
89	TXEF402M001	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.5;Ln 1.0 Meter		PS186Ø
90	TXEF402M003	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.4;Ln 3.0 Meter		PS186Ø
91	TXEF402M006	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.3;Ln 6.0 Meter		PS186Ø
92	TXEF402M010	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.2;Ln 10 Meter		PS186Ø
93	TXEF402M020	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.07;Ln 20 Meter		PS186Ø
94	TXEF402M030	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.03;Ln 30 Meter		PS186Ø
95	TXEF402M040	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.012;Ln 40 Meter		PS186Ø
96	TXEF402M050	17				790n	350 #☑	27	NA 0.53;Fbs 1;Transmittance 0.005;Ln 50 Meter		PS186Ø
97	C86003E-RS	18	250m†	10 §	50m§	840n	500n%		Dig Data Link;PIN Det;20Mbs NRZ;TTL Out	FB49♦	PS148
98	C86003E-TS	18	1.2 †	5.0	250m	840n	100uΔØ		Dig Data Link;IR LED;20Mbs NRZ;TTL In	FB49♦	PS148
99	C86004E-RS	18	250m†	10 §	50m§	840n	250n%		Dig Data Link;PIN Det;5.0Mbs NRZ;TTL Out	FB49♦	PS148
100	C86004E-TS	18	1.2 †	5.0	250m	840n	100uΔØ		Dig Data Link;IR LED;5.0Mbs NRZ;TTL In	FB49♦	PS148
101	C86005E-RS	18	250m†	10 §	50m§	840n	100n%		Dig Data Link;PIN Det;2.0Mbs NRZ;TTL Out	FB49♦	PS148
102	C86005E-TS	18	1.2 †	5.0	250m	840n	100uΔØ		Dig Data Link;IR LED;2.0Mbs NRZ;TTL in	FB49♦	PS148
103▼	HFBR-0010	18	1.2	5.0 §	225m§			07	10m Simplex Sys;Incl HFBR-1001 Xmit,2001 Rec		
104▼	MDL221	18	2.5 †	%	%				XTR 200ma,12V;REC 5.0ma,12V;DC to 4MHz	♦	PH119☑
105♦	MDL225-TV	18	2.9 †	%	%				XTR 200ma,12V;REC 50ma,7V;20ma,-7V;20Hz-5MHz		
106▼	MDL235	18	2.5 †	%	%				XTR 200ma,12V;REC 5.0ma,12V;DC to 15MHz		PH119☑
107♦	MDL235-TV	18	3.2 †	%	%				XTR 200ma,12V;REC 50ma,12V;20ma,-12V;20Hz-10MHz	♦	PH119☑
108♦	MDL236-TV	18	3.2 †	%	%				XTR 200ma,12V;REC 50ma,12V;20ma,-12V;20Hz-20MHz		
109▼	MDL238	18	1.9 †	%	%				XTR 200ma,12V,REC 40ma,12V;100uA;5V;DC 50MHz	♦	PH119☑
110♦	MDL258	18	3.8	%	%				Anal Sys;500kHz-100MHz;12V,185mA;-6.0V,100mA		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

46. MISCELLANEOUS DEVICES

IN ORDER OF:(1) USE & (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	PARAMETERS ELECTRICAL MAX PWR DISS. (W)	VOLT (V)	CURR. (A)	OPTICAL Pk W/L λp (m)	INTENS. Iv (cd)	TEMP RNG. CODE - +	DESCRIPTION	SCHEM -ATIC	DRAWING Ø-RND. ☑-RECT. Δ-STRIP *-CHIP
1♦	MDL259	18	3.8	%	%				Anal Sys;500kHz-200MHz;MDL258 Pwr;250V,10uA		
2▼	MDL421	18	1.0 †	%	%				XTR 100ma,5V;REC 40ma,12V;10ma,-12V;2.0Mb/s;TTL	FB64	PS170☑
3	MDL421SMA-RS	18	750m	24 §	50m§☑	905n	36k♦		Photodiode Dig Rcvr,2.0Mb/s;TTL;Noise 100uV☑	FB65a	PS171a☑
4	MDL421SMA-TS	18	500m	5.0	100m	905n	2.0uΔ		IR LED Dig Trans, 2.0Mb/s;TTL Compatible	FB65	PS171☑
5▼	MDL422	18	1.0 †	%	%				XTR 100ma,5V;REC 40ma,12V;10ma,12V;4.0Mb/s;TTL	FB64	PS170☑
6	MDL422SMA-RS	18	700m	24 §	50m§☑	905n	18k♦		Photodiode Dig Rcvr,4.0Mb/s;TTL;Noise 100uV☑	FB65a	PS171a☑
7	MDL422SMA-TS	18	500m	5.0	100m	905n	4.0uΔ		IR LED Dig Trans,4.0Mb/s;TTL Compatible	FB65	PS171☑
8	MDL2255-TV	18		117 §				05	CCTV FO Sys;BW 20Hz-6.0MHz;Noise 2.0mV		PS173☑
9	MDL2265-TV	18		117 §				05	CCTV FO Sys;BW 6.0Hz-20MHz;Noise 2.0mV		PS173☑
10♦#	OML40D	18	3.3	%	%	900n	50uΔ	25	Simplex Sys;2.0km;30Mb/s;5V,300mA;12V,150mA	FB61	PS159
11#	OML50A	18	2.8 †	20 ☑	300m☑	900n		25*	Fibre Opt Link;Analog/BW0.1-50MHz/S;Simplex		
12▼	SPX2672	18	750m	%	%			07*	Transm Sys;Trans DC 5V,.1A;Rec 5V,.05A		PS165
13▼	SPX2673	18	120	%	%			07*	Transm Sys;Trans 50-400Hz,120V,.5A;Rec 120V,.5A		PS165
14▼	SPX2674-1	18	61	%	%			07*	Transm Sys;Trans DC5V,.2A;Rec 50-400Hz,120V,.5A		PS165a
15▼	SPX2674-2	18	61	%	%			07*	Transm Sys;Trans DC5V,.2A;Rec 50-400Hz,120V,.5A		PS165b
16▼	XA/RA-1000	18		18	250m	890n		05	Analog Sys to 1.0km;DC-3.5MHz;Vi 1.0-10Vrms		
17▼	XD/RD-1000	18		15	200m	890n		05	Dig Sys to 1.0km;1.0Mb/s max;TTL,MOS;Rz,NRZ		

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

47. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-S-19500/
1N5765	†HPA	467 Ø AMEND 2
1N6092	†HPA	519 AMEND 2 EL
1N6093	†HPA	520 AMEND 2 EL
1N6094	†HPA	521 AMEND 2 EL
4N22	ΔTII	486A Ø AMEND 1 USAF
4N22A	ΔOPI	486A Ø AMEND 1 USAF
4N23	ΔTII	486A Ø AMEND 1 USAF
4N23A	ΔOPI	486A Ø AMEND 1 USAF
4N24	ΔTII	486A Ø AMEND 1 USAF
4N24A	ΔOPI	486A

MILITARY DOCUMENTS

DEPARTMENT OF DEFENSE, INDEX of Specifications and Standards, dated 1 July 1976, Supplement dated 1 November 1976.

DEVICE MANUFACTURERS
Qualifications on Test Reference Letter.

MIL–S–19500F Military Specification, General Specification for Semiconductor Devices, dated 15 December 1977.

MIL–STD–701K Military Standard, List of Standard Semiconductor Devices, dated 26 May 1976.

QPL–19500–71 Qualified Products List of Products Qualified Under Military Specification MIL–S–19500, dated 10 October 1978.

† - Qualification included TX Devices
Δ - TX and TXV Devices
Ø - Mil-Std-701 Device

DRAWING/LEAD CODE DESIGNATIONS

DEVICE CLASS	SECTION	DEVICE TYPE	LEAD CODE GROUPING	DRAWING PREFIX LETTERS	
				Schematic	Outline
Emitters	2	Light Emitting Diode	A to Z		PD
	3	Infrared Emitting Diode	A to Z		PD
	4	Arrays: LED and Infrared Emitting Diode			PA
Sensors	10	Photodiode	A to Z		PD
	11	Phototransistor	AA to CZ		PT
	12	Photodarlington	DA to FZ		PT
	13	Photothyristor	KA to NZ		PT
	14	Photocircuit (IC)		BE	PH
	15	Arrays: Photodiode, Phototransistor		BF	PA
	16	Photoconductive Cell			PC
	17	Photovoltaic Cell	A to Z		PV
	18	Photovoltaic Array		BJ	PV
Photocouplers	25	Photocell (LDR, Voltaic) Output		CA	PH
	26	Phototransistor Output		CB	PH
	27	Photodarlington Output		CC	PH
	28	Photothyristor Output		CD	PH
	29	Photocircuit (IC) Output		CE	PH
Displays	35	LED		EA	PY
	36	Liquid Crystal		EB	PY
	37	Other: Gas Discharge, Incandescent		EC	PY
Special Devices	45	Detectors		FA	PS
	46	Miscellaneous Devices		FB	PS

D.A.T.A. LEAD CODE IDENTIFICATION GUIDE

LEAD CODE EXPANDER

- ⍁ — Terminal 1 connected to Case
- § — Terminal 2 connected to Case
- ϕ — Terminal 3 connected to Case
- $ — Terminal 4 connected to Case
- ♦ — See Outline for terminal designation

LEAD CODE	LEAD CONFIGURATION 1	2	3	4
A	A	K		
B	K	A		
C		K	A	
D	K2	K1	A1/A2	
E	K	NC	A	
F	A	NC	K	
G	K	R	A	
H	A	K	R	
J		A	K	
K	K	A	NC	
M	A	A	K	
N	A1	A2	K1/K2	
S	A		K	CASE
T	K	A	R	
U	(-)	NC	(+)	
V	A		K	
W	A	R	K	
X	A	CASE	K	
Y	K		A	
Z	A	K	CASE	
AA	C	E		
AB	E	C		
AC	E	C	B	
AD	E	B	C	
AE	B	E	C	
AF	B	C	E	
AG	C	E	B	
AH	C	B	E	
AJ	E		C	
AK	E	C		
AM	C		E	
AN	NC	K	A	

LEAD CODE	LEAD CONFIGURATION 1	2	3	4
DA	C1/C2	E2		
DB	E2	C1/C2		
DC	B1	E2	C1/C2	
DD	B1	C1/C2	E2	
DE	C1/C2	B1	E2	
DF	C1/C2	E2	B1	
DG	E2	B1	C1/C2	
DH	E2	C1/C2	B1	
EJ	B1	C1/C2	E1/B2	E2
EK	B1	C1/C2	E2	E1/B2
EM	C	G	A	
EN	E2/B3	E3	C1/C2/C3	
EQ	C	B	E1	E2
ER	C1	C2	E2	
ES	C1/C2		E2	
GA	S	D		
GB	D	S		
GC	D	G	S	
GD	D	S	G	
GE	G	D	S	
GF	G	S	D	
GG	S	D	G	
GH	S	G	D	
GJ	S	D	G	CASE
KA	A	K		
KB	K	A		
KC	A	K	G	
KD	A	G	K	
KE	K	GP	A	GN
KF	G	A	K	
KG	K	G	A	
KH	K	GP	A	GN
KJ	K	GP	GN	A
KK	D	S	CASE	

ABBREV.	TERM
A,A1,A2	Anode
B,B1,B2	Base
C,C1,C2	Collector
D	Drain
E,E1,E2	Emitter
G	Gate
GN	N-Gate(Anode Gate)
GP	P-Gate(Cathode Gate)
K,K1,K2	Cathode

ABBREV.	TERM
NC	No Connection
R	Guard Ring
S	Source
(+)	Positive Source Terminal
(-)	Negative Source Terminal

NOTE: For multi-element devices, numerical subscripts designate corresponding element terminals.

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

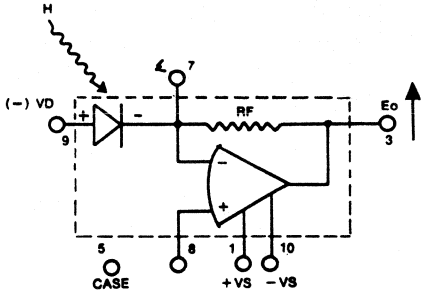
NOTES

These schematic drawings are intended as a guide for the user. They should not be used for constructive purpose without first checking with the appropriate manufacturer.

These drawings are referenced in the Technical Sections of this D.A.T.A.BOOK in accordance with information supplied by the manufacturers.

All drawings have circular symmetry unless otherwise indicated.

BE1



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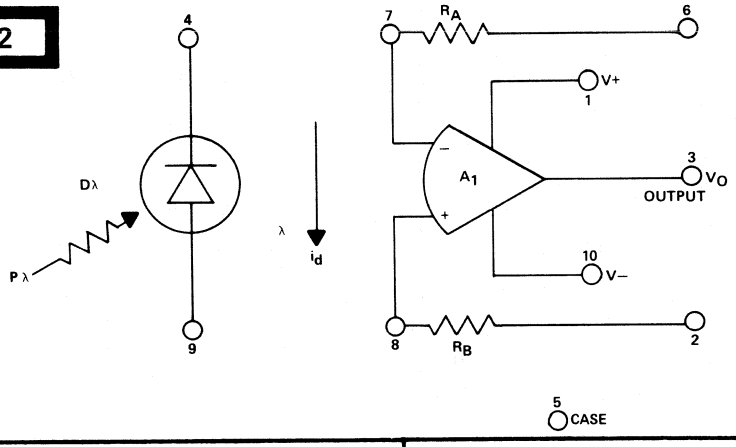

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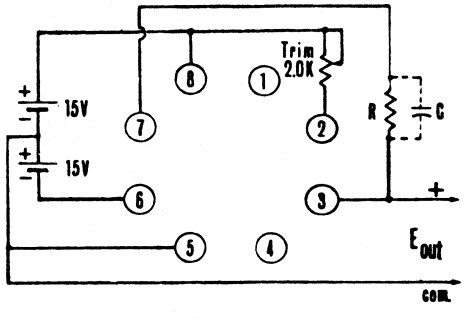
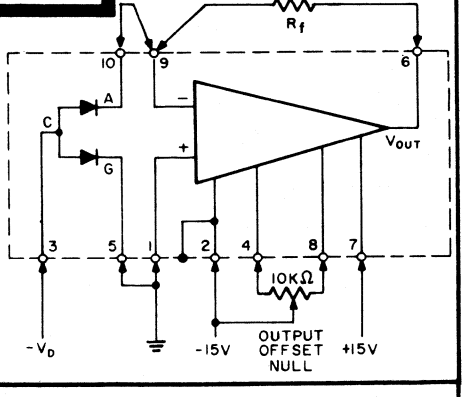


BE5



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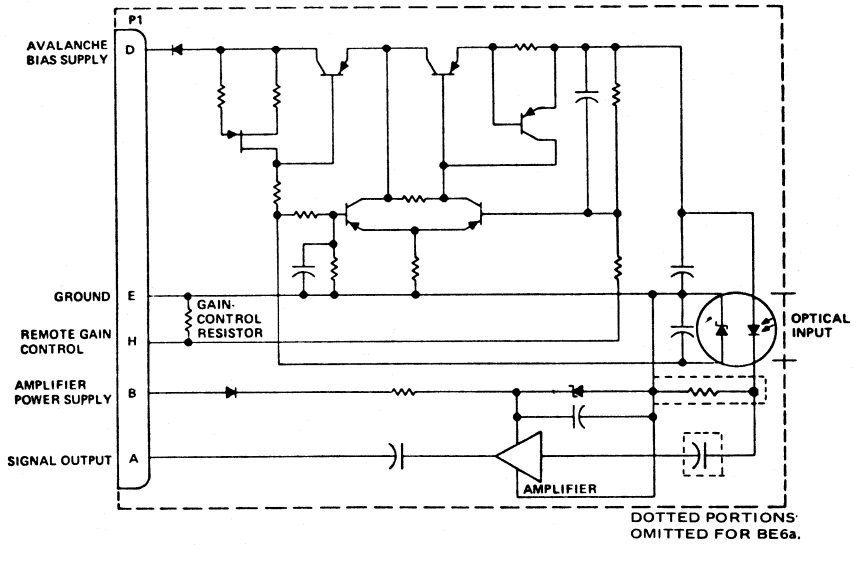
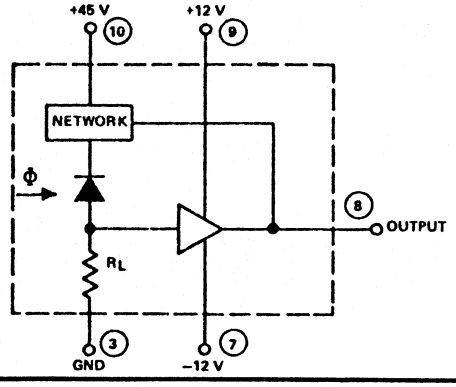


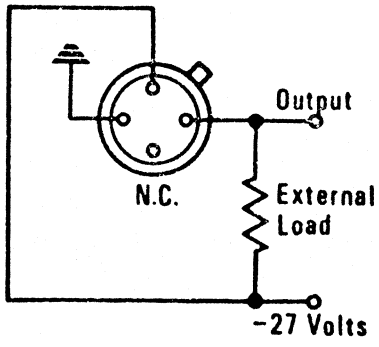
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

BE7

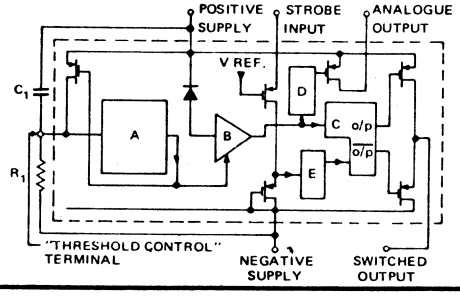


BE8

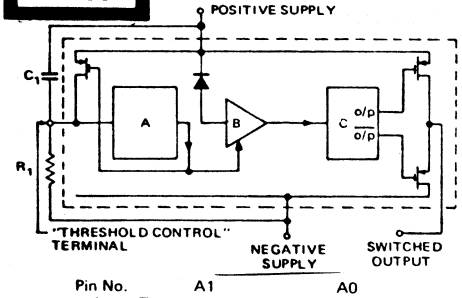


BE9

Pin No.	A1 and A0
1	-ve Supply
2	Threshold Control
3	Analogue Output
5	Strobe Input
6	Switched Output
7	+ve Supply

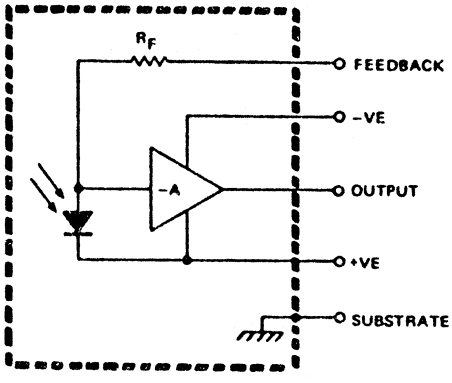


BE10



Pin No.	A1	A0
1	Threshold Control	-ve Supply
2	Output	Threshold Control
3	+ve Supply	+ve Supply
4	-ve Supply	Output

BE11

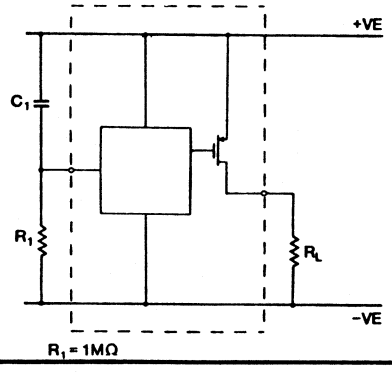


PIN CONNECTIONS

1	(TAG) FEEDBACK
2	N.C.
3	N.C.
4	N.C.
5	N.C.
6	GROUND (CAN)
7	N.C.
8	POSITIVE SUPPLY
9	OUTPUT
10	NEGATIVE SUPPLY

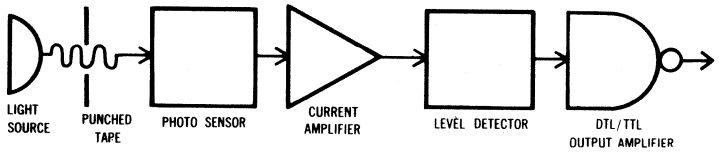
BE12

Pin 1 = RC Point Pin 2 = Output
Pin 3 = +ve Pin 4 = -ve

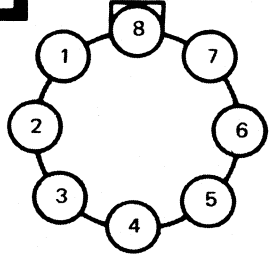


$R_1 = 1M\Omega$

BE15

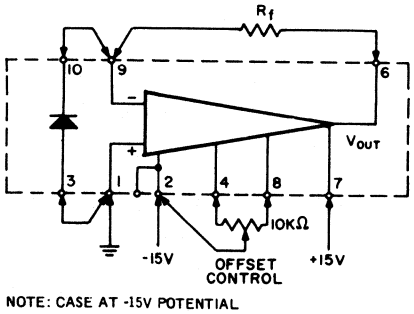


BE16



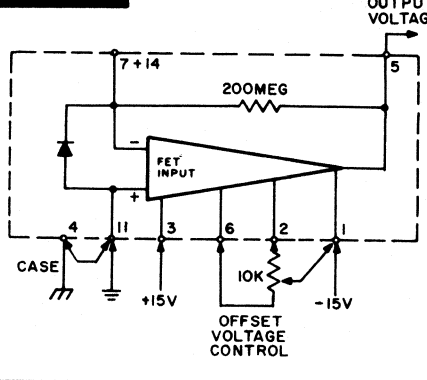
	OFF NULL	INV IN	NON INV IN	PHOTO DIODE	OFF NULL	OUT PUT	V+	V-
BE16	1	2	3	4	5	6	7	8
BE16a	1	2	3	8	5	6	7	4

BE17

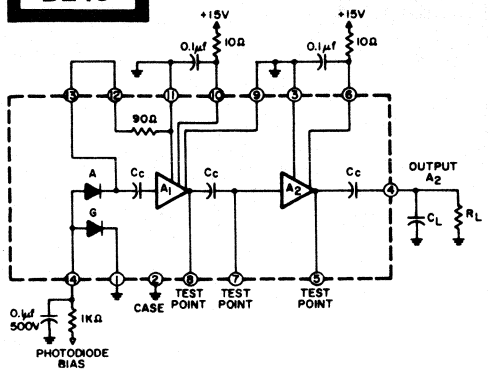


NOTE: CASE AT -15V POTENTIAL

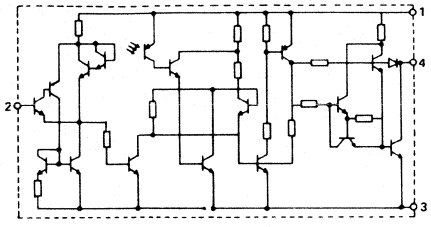
BE18



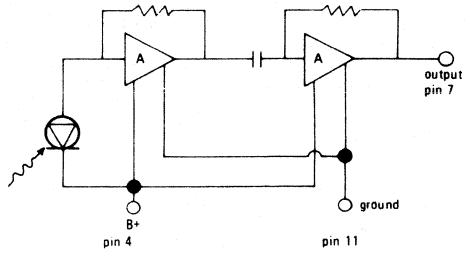
BE19



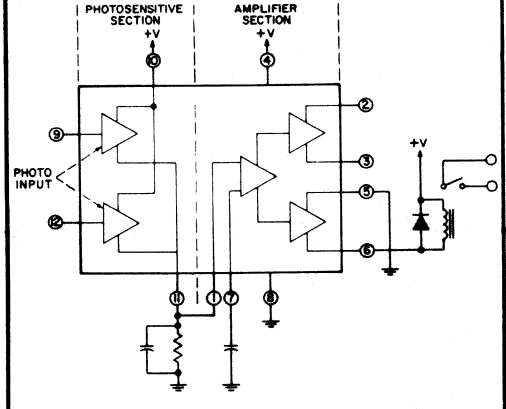
BE20



BE22

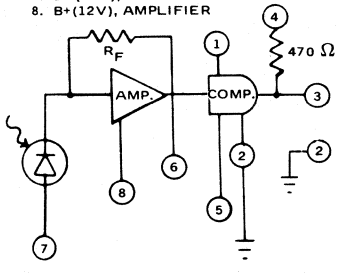


BE25

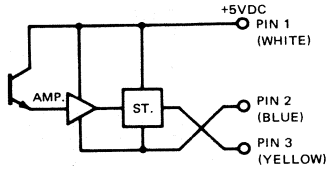


BE28

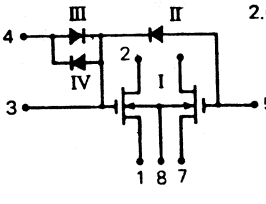
PIN CONNECTIONS
1. V+1 (+12V) COMPARATOR
2. GND
3. COMPARATOR OUTPUT
4. V+3 (+5V)
5. V—(—12V), COMPARATOR
6. AMPLIFIER OUTPUT
7. B—(12V), AMPLIFIER
8. B+(12V), AMPLIFIER



BE29



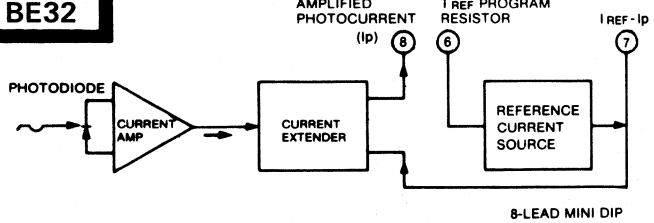
BE30



1.7. MOS FET source
2.6. MOS FET drain
3. MOS FET gate, SBC cathode, Log diode cathode, By-pass diode anode
4. Log diode anode By-pass diode cathode
5. MOS FET gate, SBC anode

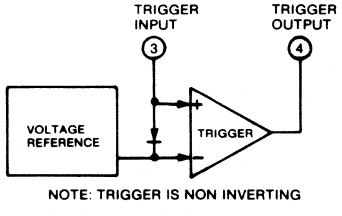
I N channel dual MOS FET
II Blue sensitive photodiode (SBC)
III Log diode
IV By-pass diode

BE32



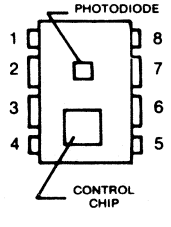
8-LEAD MINI DIP
PIN CONNECTIONS

1 +VCC
2 N/C
3 TRIGGER INPUT
4 TRIGGER OUTPUT
5 COMMON SUBSTRATE
6 I REF PROGRAM RESISTOR
7 (I REF-PHOTOCURRENT) SOURCE
8 PHOTOCURRENT SOURCE



NOTE: TRIGGER IS NON INVERTING

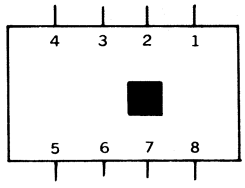
TOP VIEW



48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

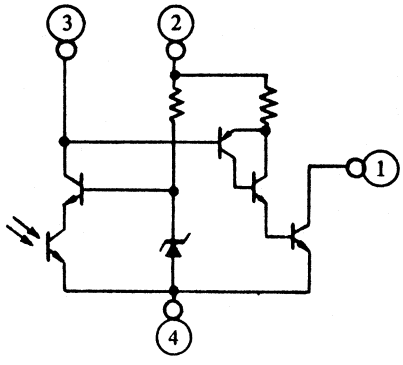
BE33



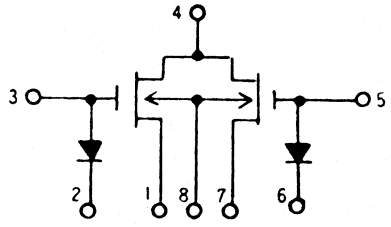
1 V_{CC}
2 BATTERY TEST INDICATOR
3 "FLASH REQUIRED" INDICATOR
4 SHUTTER HOLDING COIL
5 COMMON NEGATIVE
6 MODE SWITCH (CONNECT TO GROUND)
7 EXPOSURE SWITCH/TIMING CAPACITOR
8 EXTENDED EXPOSURE (OPEN FOR EXPOSURES GREATER THAN 1/15)

BE34

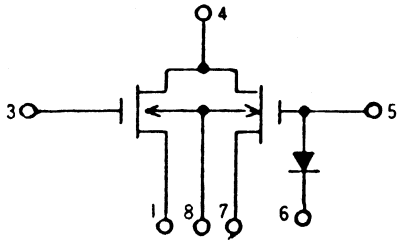
① Output ③ Control
② V_{CC} ④ GND (Case)



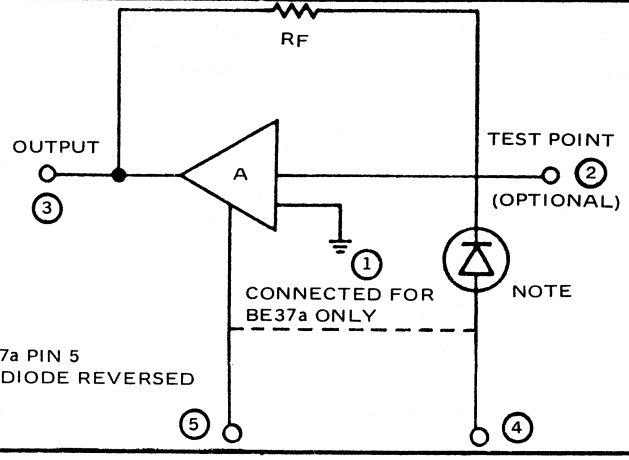
BE35



BE36

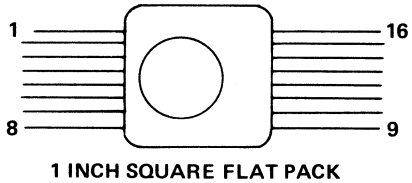


BE37

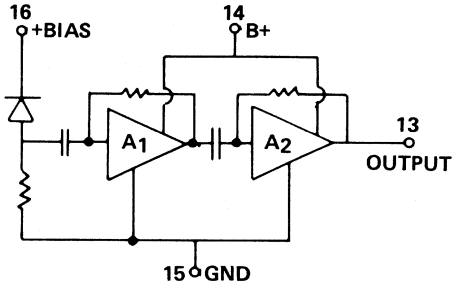


NOTE: FOR B37a PIN 5 OMITTED AND DIODE REVERSED

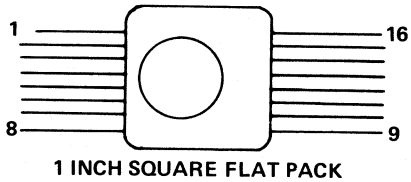
BE38



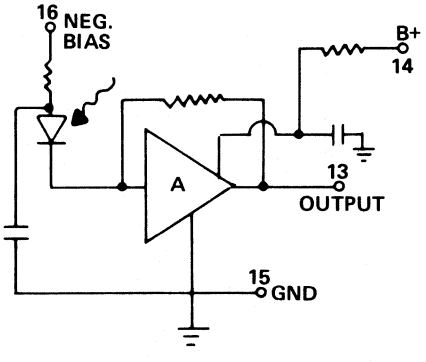
1 INCH SQUARE FLAT PACK



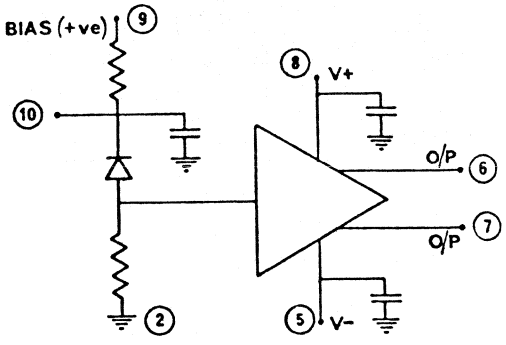
BE39



1 INCH SQUARE FLAT PACK



BE40

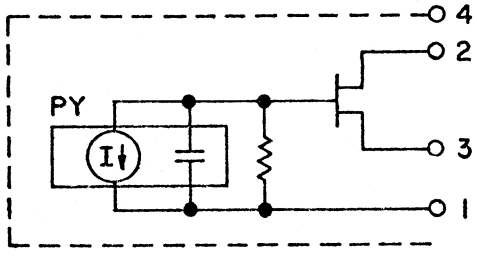


CONNECTIONS:

Pin 1	*N.C.*
2	*Earth*
3	*N C.*
4	*Can (isolated)*
5	V^-
6	*Output A*
7	*Output B*
8	V^+
9	*Diode Bias Volts*
10	*Diode Decouple*

BE41

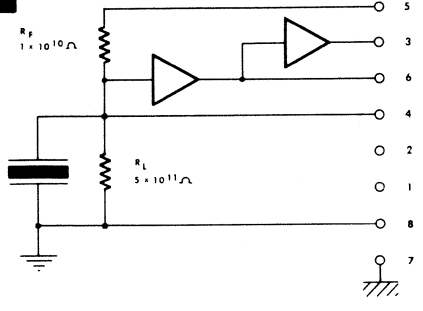
DETECTOR
EQUIVALENT CIRCUIT

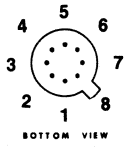


LEAD IDENTIFICATION

1 COMMON (Gate Bias)
2 +V (Drain)
3 OUTPUT (Source)
4 CASE

BE42

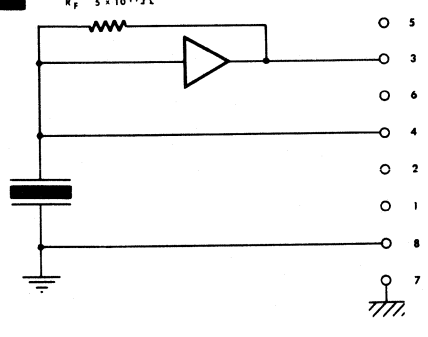




PIN CONNECTIONS

Pin	Detector only	Detector + Voltage Mode Amplifier	Detector + Current Mode Amplifier
1	N/C	to pin 2	−15 VDC =
2	N/C	+ 15 VDC =	+ 15 VDC =
3	N/C	N/C	Output
4	Output	N/C	N/C
5	N/C	N/C	to pin 3
6	N/C	Output	N/C
7	Case	Case	Case
8	GND	GND	GND

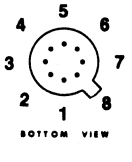
BE43



PIN CONNECTIONS:

1	−15 VDC =
2	+15 VDC =
3	Output
4	N/C
5	N/C
6	N/C
7	Case
8	GND

Pin designations can be changed according to customer requirements.

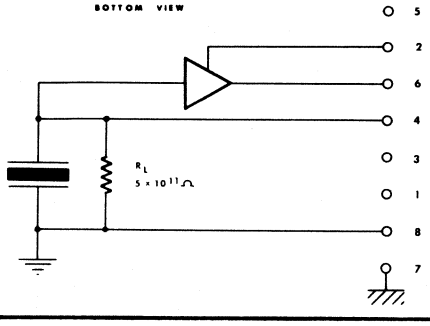


BE44

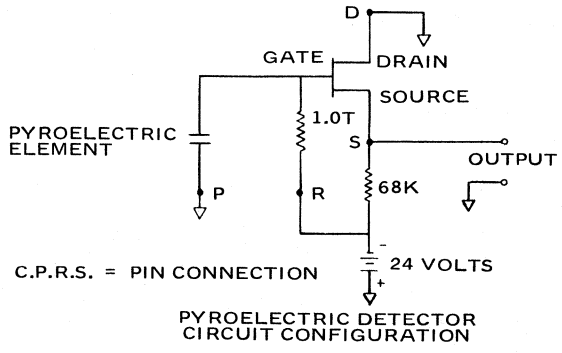
PIN CONNECTIONS:

1	N/C
2	+ 15 VDC =
3	N/C
4	N/C
5	N/C
6	Output
7	Case
8	GND

Pin designations can be changed according to customer requirements.

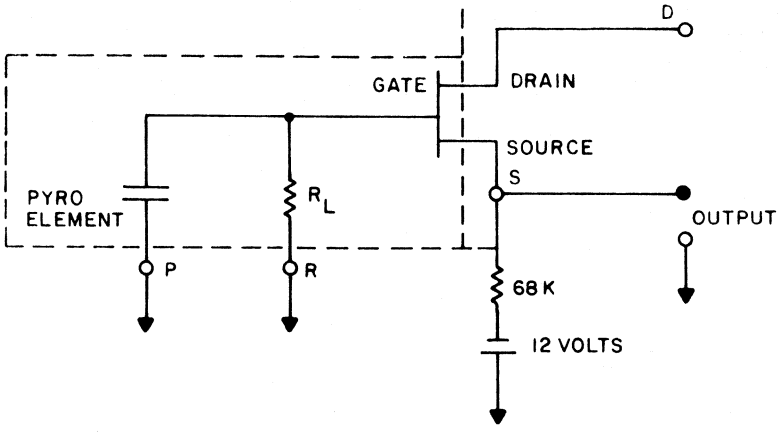


BE45

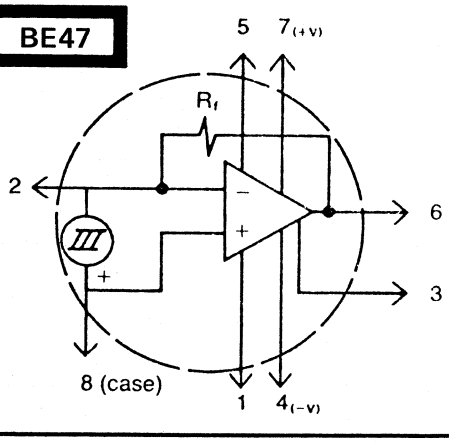


PYROELECTRIC DETECTOR CIRCUIT CONFIGURATION

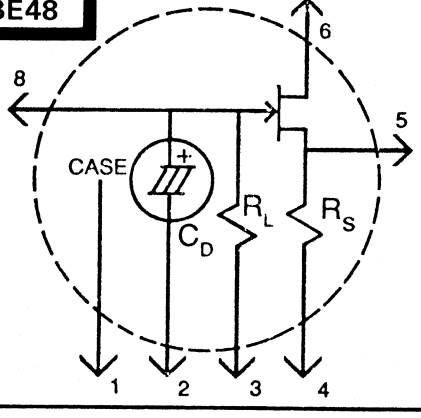
BE46



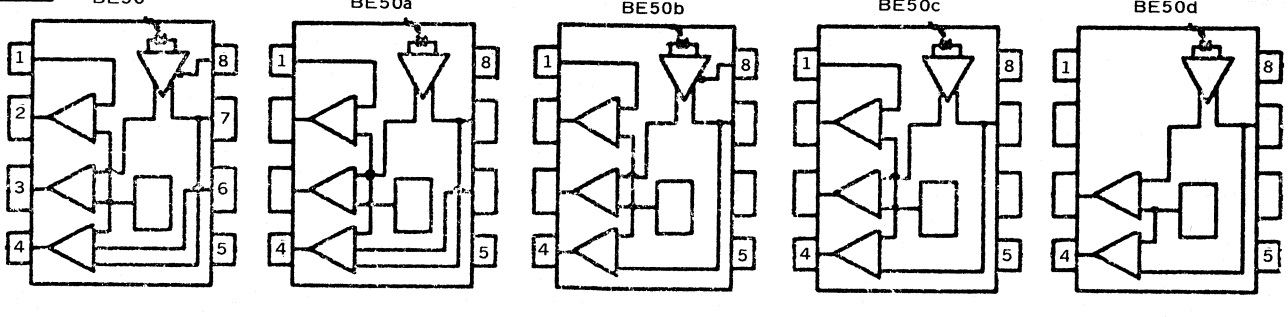
BE47



BE48



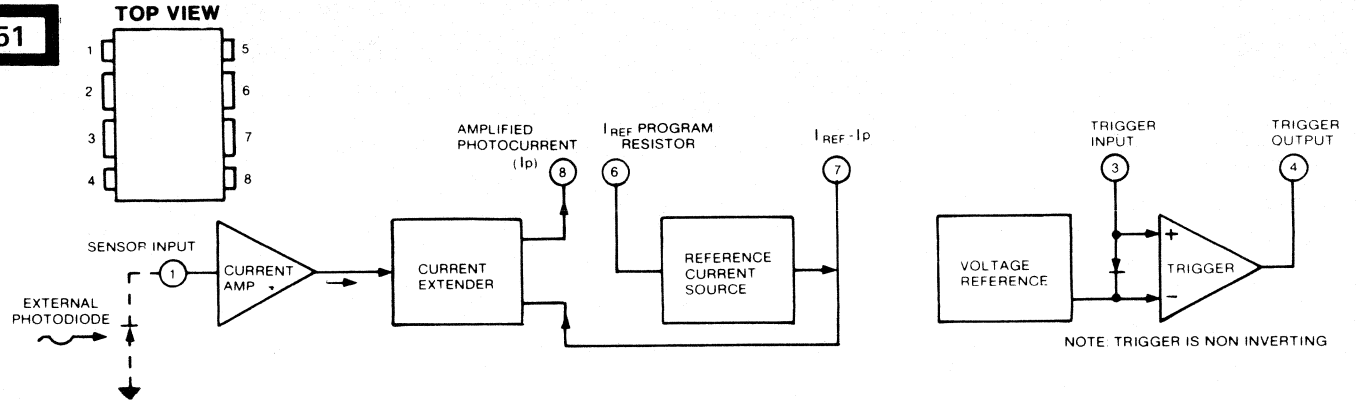
BE50



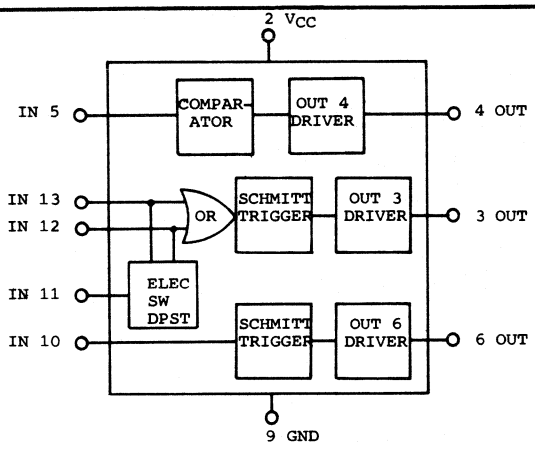
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

BE51

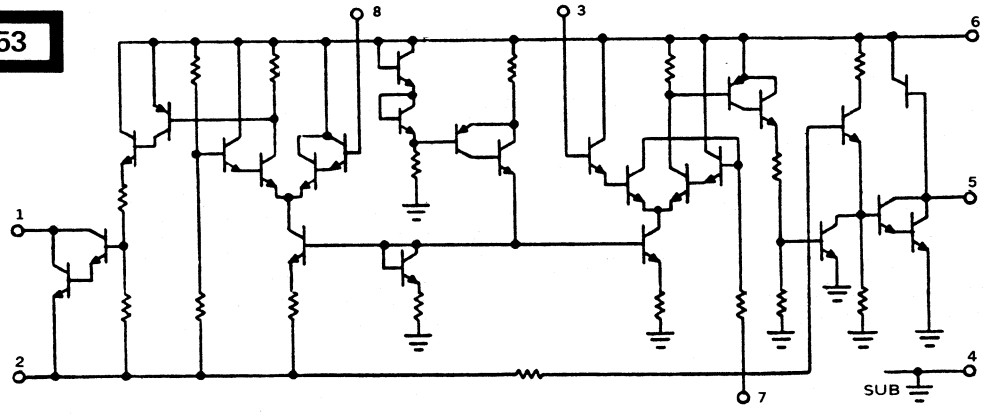


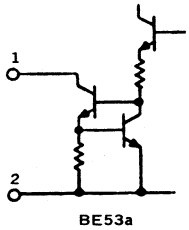
BE52



1. N.C.
2. Vcc
3. Timer Out
4. Battery Check Out
5. Battery Check Vcc
6. Low Light Out
7. N.C.
8. N.C.
9. GND
10. Low Light In
11. Starting Switch
12. Timer In
13. Timer In
14. N.C.

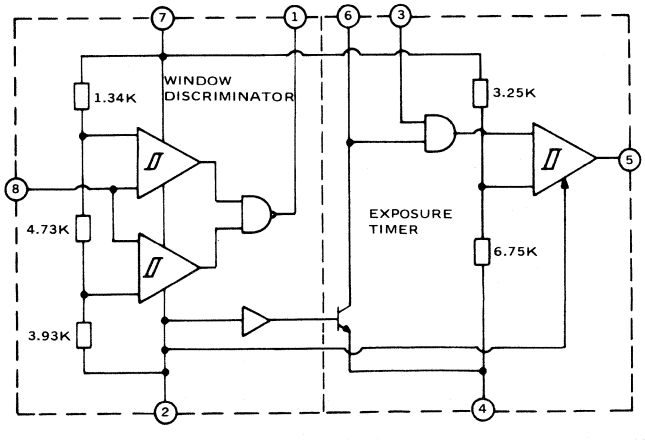
BE53





BE53a

BE54



PIN ASSIGNMENTS
1 DISCRIMINATOR OUTPUT
2 DISCRIMINATOR ENABLE
3 FREE INPUT — TIMER TRIGGER
4 COMMON NEGATIVE
5 SHUTTER COIL OUTPUT
6 GATED INPUT — TIMER TRIGGER
7 V_{CC}
8 DISCRIMINATOR INPUT

BE57

BE57

Pin Connections

1: Signal Output
2: No Connection, Do Not Use
3: $-V_{CC}$ Negative Bias for Amplifier
4: Positive Bias for Photodiode
5: No Connection, Do Not Use
6: Case
7: No Connection, Do Not Use
8: Anode } Temperature Sensing Diode, Note 1
9: Cathode }
10: Ground
11: No Connection, Do Not Use
12: $+V_{CC}$ Positive Bias for Amplifier

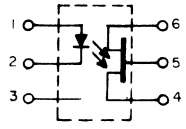
Note 1: This diode is not a part of the amplifier; only pins 8 and 9 of the module are connected to it. The diode can be used to monitor the temperature of the photodiode if desired.

BE57a

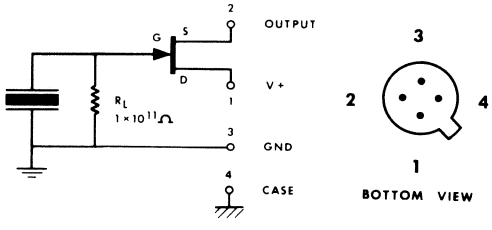
Pin Connections

1: Signal Output
2: No Connection, Do Not Use
3: $-V_{CC}$ Negative Bias for Amplifier
4: Positive Bias for Photodiode
5: No Connection, Do Not Use
6: Case
7: No Connection, Do Not Use
8: No Connection, Do Not Use
9: No Connection, Do Not Use
10: Ground
11: No Connection, Do Not Use
12: $+V_{CC}$ Positive Bias for Amplifier

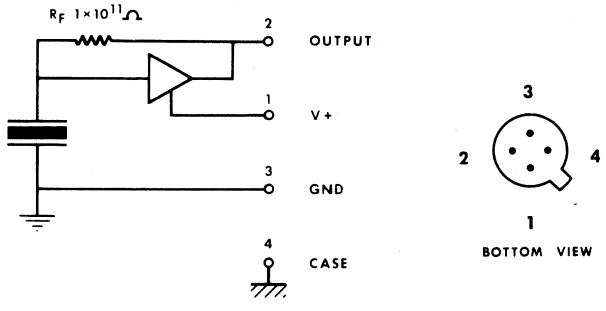
BE58



BE59



BE60



BE61

BE61

PIN ASSIGNMENTS

PIN	FUNCTION
1	VCC
2	
3	Low light, battery test indicator
4	Shutter magnet
5	Common negative
6	Aperture control
7	Sync switch; Timing capacitor
8	Exposure range switch

BE61a

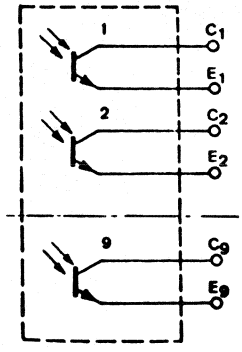
PIN ASSIGNMENTS

PIN	FUNCTION
1	Low Level Common
2	+VCC
3	Low Light Indicator (Battery Test)
4	Shutter Magnet
5	-VCC
6	Sync Switch; Timing Capacitor
7	Exposure Range Switch
8	Low Level Common

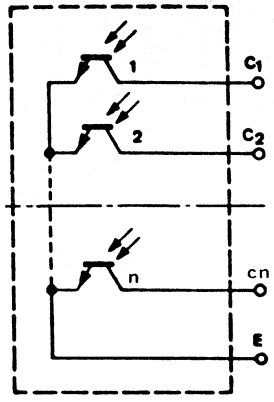
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

BF1

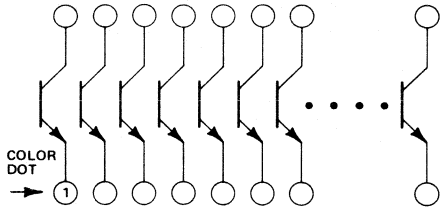


BF2

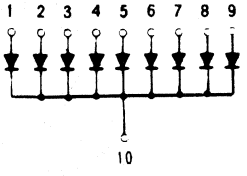


	n	Cn
BF2	6	C6
BF2a	10	C10

BF3



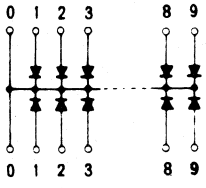
BF4



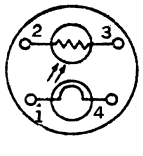
1 9 Anode

10 Cathode

BF5

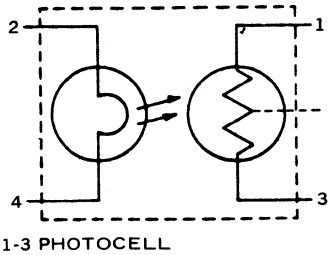


CA1



CA2

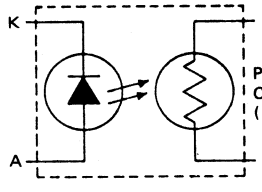
DOTTED LEAD FOR CA2a ONLY.



1-3 PHOTOCELL

2-4 LIGHT SOURCE

CA3

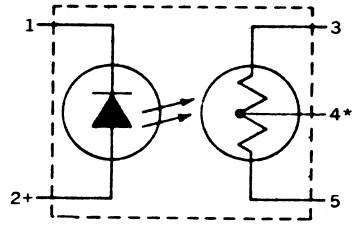


	A	K	PHOTO CONDUCTIVE (LDR)	
CA3	4	2	3	1
CA3a	3	4	1	2
CA3b	1	2	5	6

48. SCHEMATIC DRAWINGS

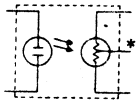
IN DRAWING NUMBER SEQUENCE

CA4



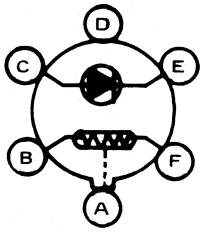
*– LEAD OMITTED ON CA4a.

CA5



*–LEAD FOR CA5a ONLY.

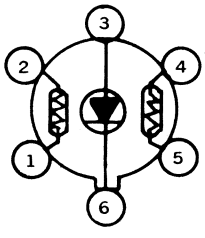
CA6



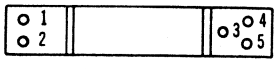
DOTTED LINE FOR CA6a ONLY.

	A	B	C	D	E	F
CA6	–	1	2	–	3	4
CA6a	6	1	2	3	4	5

CA7



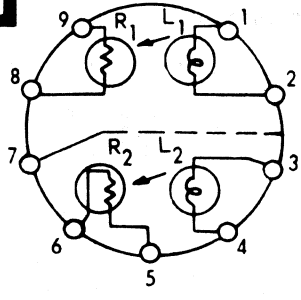
CA10



Bottom View

Pins 1, 2. Control Circuit (Light Source)
Pin 3. Shield (Ground)
Pins 4, 5. Signal Circuit (Photosensitive Resistor)

CA11



L_1 L_2 Control–lights

R_1 R_2 Photoconductors

CA12

TERMINAL CONNECTIONS.
CONTROL CIRCUIT
PINS #1 & #2 - ENERGY EMITTER IDENTIFIED - YELLOW DOT.
SIGNAL CIRCUIT
PINS #3 & #4 PHOTO RESISTOR #1
PINS #5 & #6 PHOTO RESISTOR #2

BOTTOM VIEW

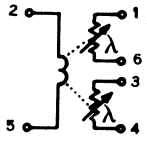
CA13

TERMINAL CONNECTIONS
CRYSTAL CAN – 6-PIN HEADER

PIN #1 – PC #1
PIN #2 – PC #2
PIN #3 – PC #1
PIN #4 – PC #2
PIN #5 – LAMP CONTROL
PIN #6 – LAMP CONTROL

CA14

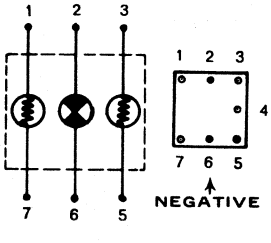
SCHEMATIC



TERMINAL CONNECTIONS

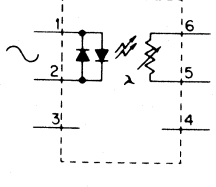
PINS #2 & #5 – CONTROL CIRCUIT (ENERGY EMITTER)
PINS #1 & #6 – SIGNAL CIRCUIT (PHOTORESISTOR #1)
PINS #3 & #4 – SIGNAL CIRCUIT (PHOTORESISTOR #2)

CA15



1 - 7 : 1 PHOTORESISTOR
2 - 6 : SOURCE LUMINANCE
3 - 5 : 2 PHOTORESISTOR (FACULTATIVE)

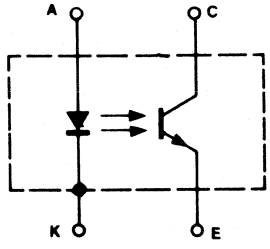
CA16



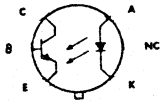
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

CB1

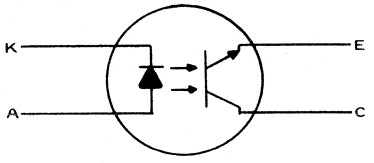


CB2



	C	B	E	A	K	REMARKS
CB2	3	2	1	5	7	
CB2a	5	6	4	1	2	
CB2b	3	2	1	5	7	Collector Isolated

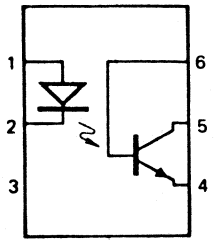
CB3



	A	K	C	E
CB3	4	1	3	2
CB3a	1	2	4	3
CB3b	4	2	3	1
CB3c	2	3	4	1

CB4

(TOP VIEW)



CB4

PIN NO.	FUNCTION
1	ANODE
2	CATHODE
3	NC
4	EMITTER
5	COLLECTOR
6	BASE

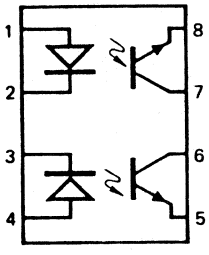
LED CHIP ON PIN 2
PT CHIP ON PIN 5

CB4a

PIN NO.	FUNCTION
6	NC

CB5

(TOP VIEW)

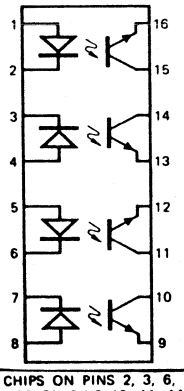


PIN NO.	FUNCTION
1	ANODE
2	CATHODE
3	CATHODE
4	ANODE
5	EMITTER
6	COLLECTOR
7	COLLECTOR
8	EMITTER

LED CHIPS ON PINS 2 AND 3
PT CHIPS ON PINS 6 AND 7

CB6

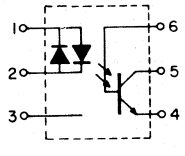
(TOP VIEW)



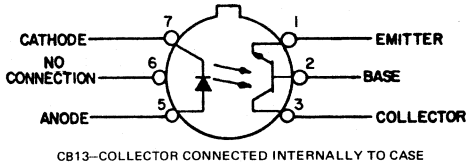
PIN NO.	FUNCTION
1	ANODE
2	CATHODE
3	CATHODE
4	ANODE
5	ANODE
6	CATHODE
7	CATHODE
8	ANODE
9	EMITTER
10	COLLECTOR
11	COLLECTOR
12	EMITTER
13	EMITTER
14	COLLECTOR
15	COLLECTOR
16	EMITTER

LED CHIPS ON PINS 2, 3, 6, 7
PT CHIPS ON PINS 10, 11, 14, 15

CB12

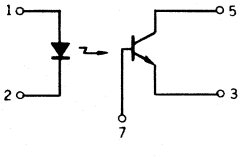


CB13



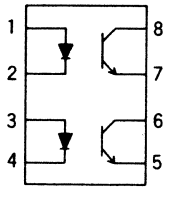
CB13–COLLECTOR CONNECTED INTERNALLY TO CASE
CB13a – COLLECTOR ISOLATED FROM CASE

CB14



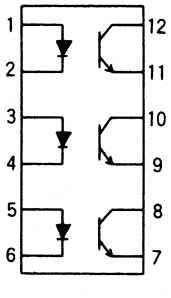
1. Anode (Case)
2. Cathode
3. Emitter
5. Collector
7. Base

CB16

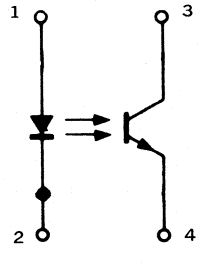


1. 3. Anode
2. 4. Cathode
5. 7. Emitter
6. 8. Collector

CB17



CB18



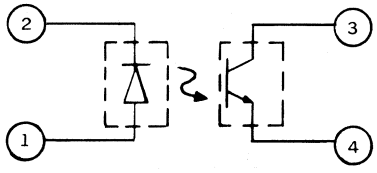
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

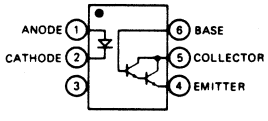
CB19

PIN DESIGNATION	
1.	A.C.
2.	INPUT
3.	NC
4.	EMITTER
5.	COLLECTOR
6.	BASE

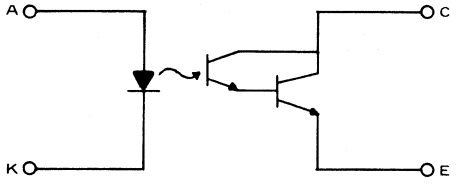
CB20



CC1

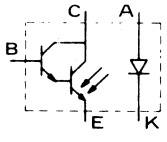


CC3



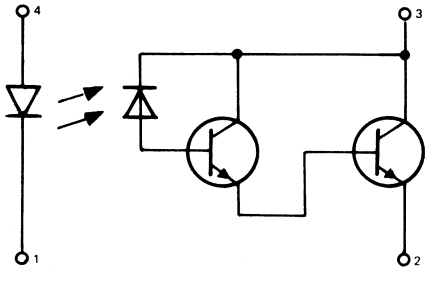
	A	K	C	E
CC3	1	2	3	4
CC3a	1	2	4	3
CC3b	1	2	5	4

CC4

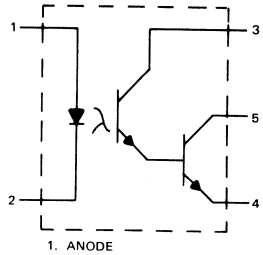


	C	B	E	A	K
CC4	3	2	1	4	5
CC4a	3	2	1	5	7

CC5

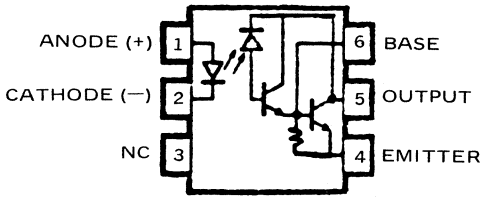


CC6

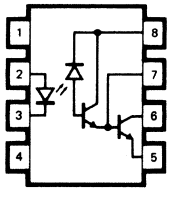


1. ANODE
2. CATHODE
3. COLLECTOR (DETECTOR)
4. EMITTER
5. COLLECTOR

CC7

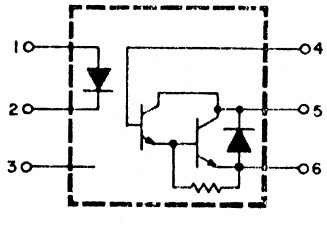


CC8



PIN	
1	N/C
2	LED ANODE
3	LED CATHODE
4	N/C
5	GROUND
6	OUTPUT
7	OUTPUT BASE
8	V_{CC}

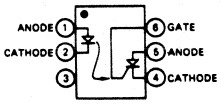
CC9



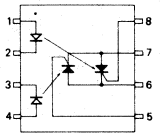
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

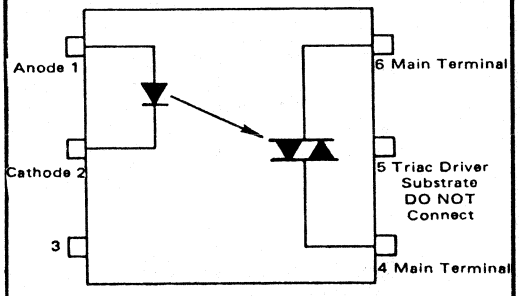
CD1



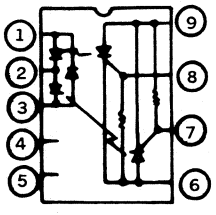
CD2



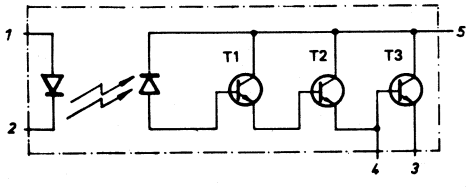
CD3



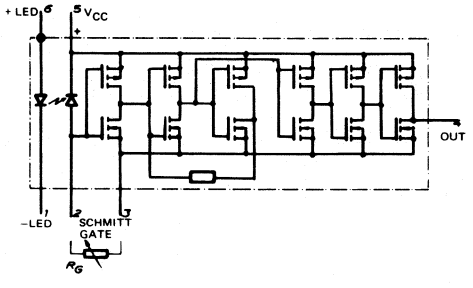
CD4



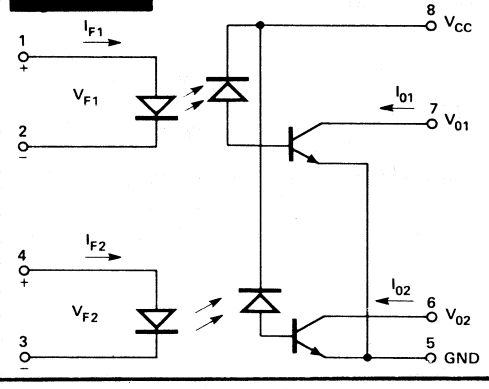
CE1



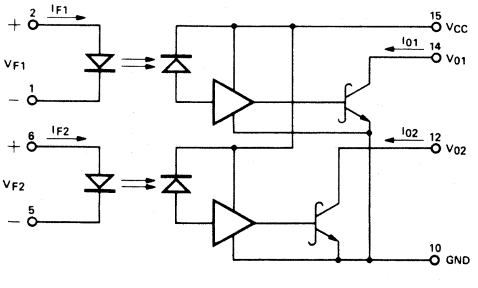
CE2



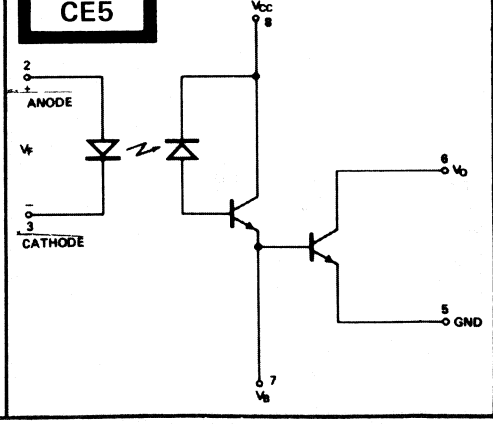
CE3



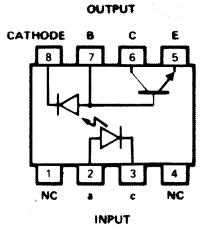
CE4



CE5



CE6

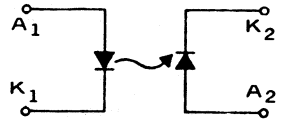


	PIN NUMBERS							
	1	2	3	4	5	6	7	8
CE6	NC	A	C	NC	E	C	B	CATHODE
CE6a	NC	ANODE	CATHODE	NC	GND	OUTP	BASE	VCC

48. SCHEMATIC DRAWINGS

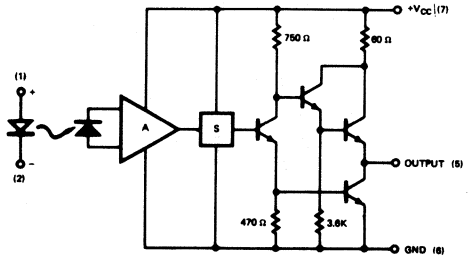
IN DRAWING NUMBER SEQUENCE

CE9



	A1	K1	K2	A2	REMARKS
CE9	1	2	5	4	
CE9a	1	2	5	4	MATCHED PAIR
CE9b	1	2	3	4	

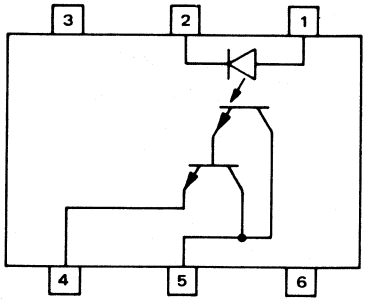
CE10



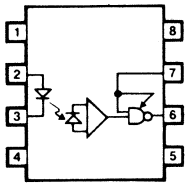
A = Differential amp, comparator
S = Schmitt trigger, threshold hysteresis

CE12

PIN 1. ANODE
2. CATHODE
3. N.C.
4. EMITTER
5. COLLECTOR
6. N.C.

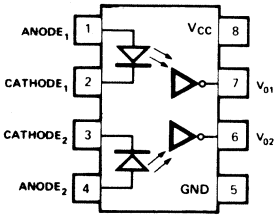


CE14

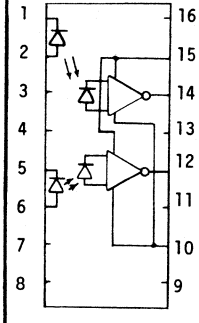


PIN NO.	
1	NC
2	ANODE
3	CATHODE
4	NC
5	GROUND
6	V_o
7	GATE
8	V_{cc}

CE15

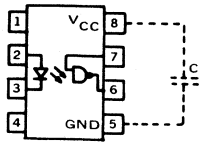


CE16



1	Input 1 (-)
2	Input 1 (+)
3	NC
4	NC
5	Input 2 (-)
6	Input 2 (+)
7	NC
8	NC
9	NC
10	Ground (both IC's)
11	NC
12	Output 2
13	NC
14	Output 1
15	V_{CC} (both IC's)
16	NC

CE17

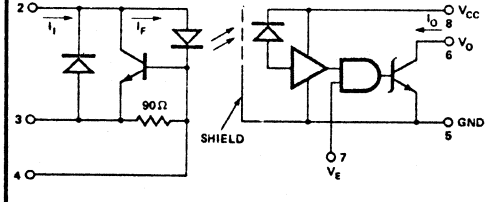


Terminal Function

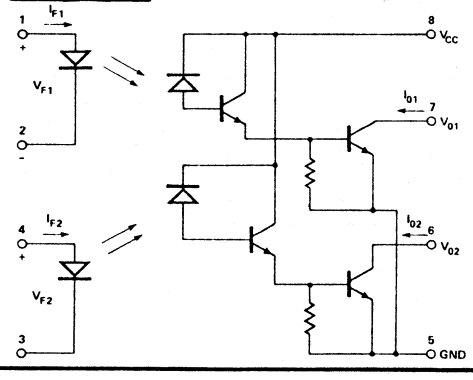
1	NC
2	Anode (+)
3	Cathode (−)
4	NC
5	Ground
6	Output
7	Enable
8	V_{CC}

All leads insulated from case.

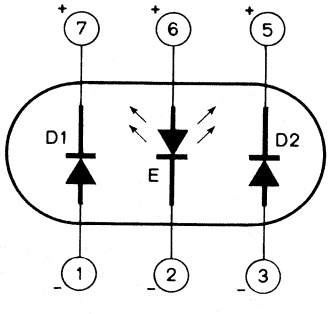
CE18



CE19

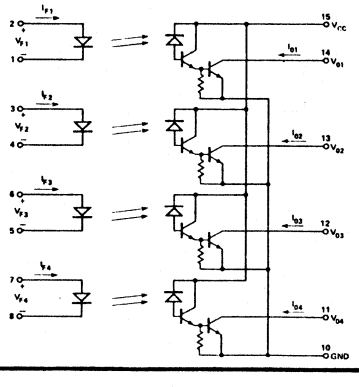


CE20

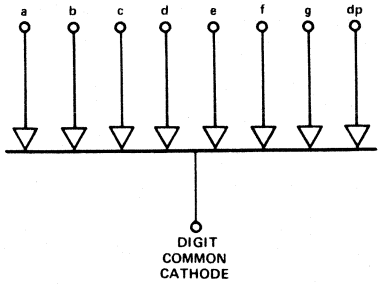


D1, D2: Photodiodes
E: IR emitter

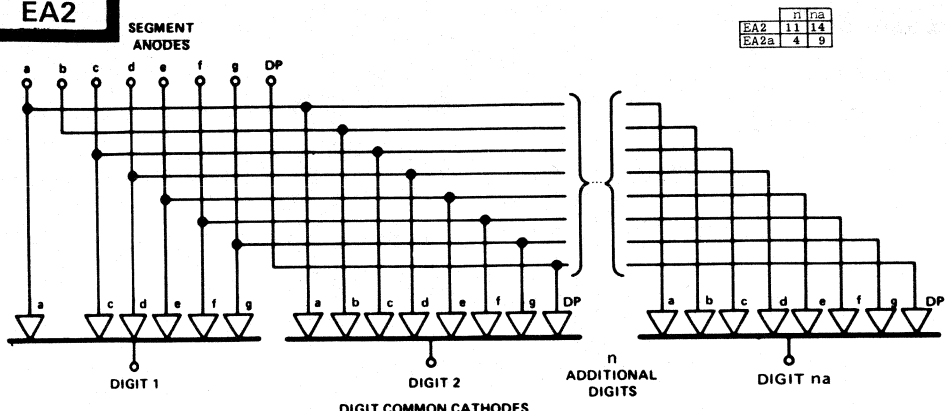
CE21



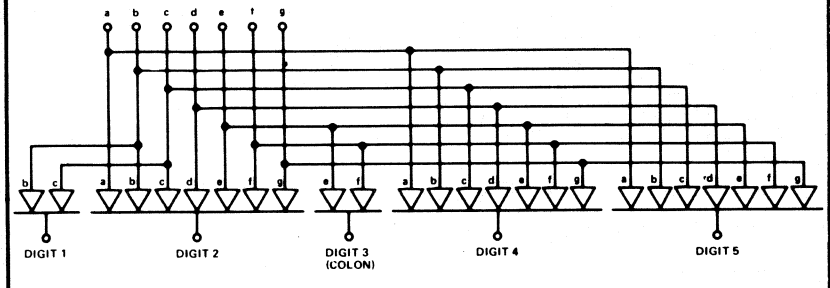
EA1



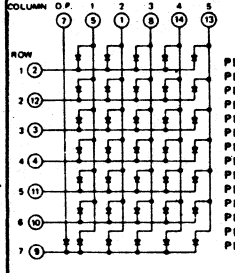
EA2



EA3



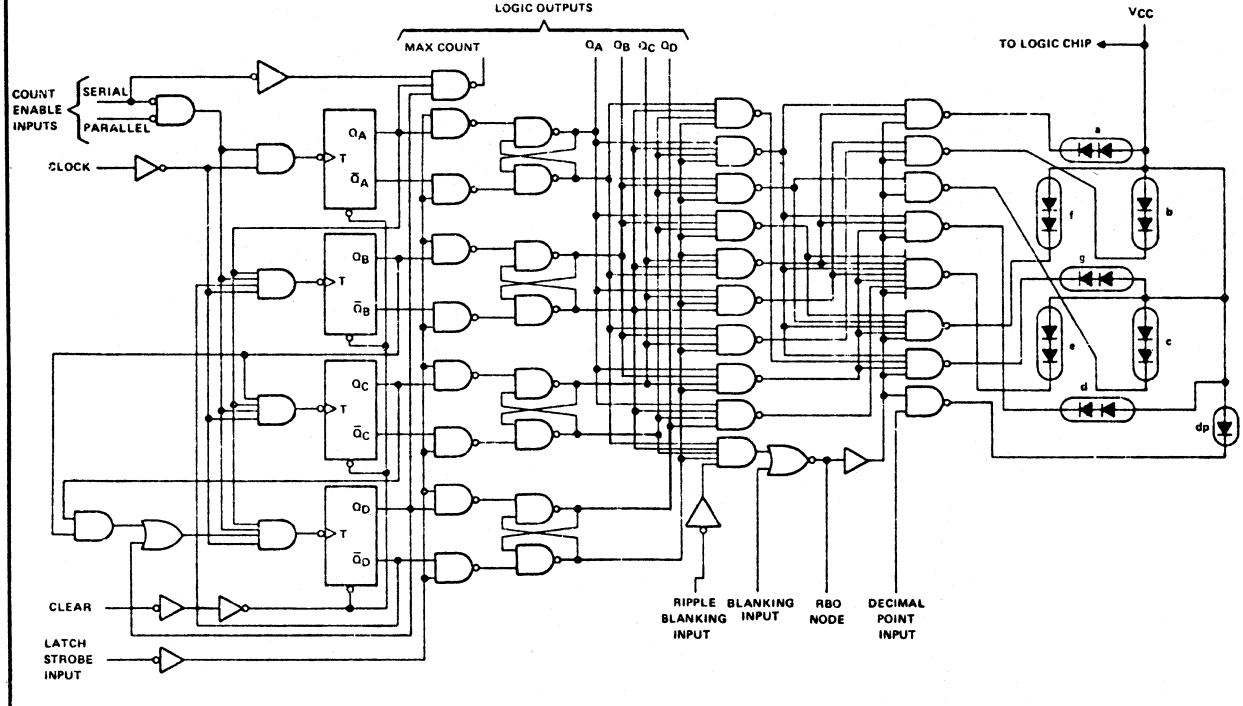
EA4



PIN 1 COLUMN 2
PIN 2 ROW 1
PIN 3 ROW 3
PIN 4 ROW 4
PIN 5 COLUMN 1
PIN 6 OMITTED (INTERNAL CONNECTION FOR EA4a)
PIN 7 DECIMAL ANODE
PIN 8 COLUMN 3
PIN 9 ROW 7 AND DECIMAL CATHODE
PIN 10 ROW 6
PIN 11 ROW 5
PIN 12 ROW 2
PIN 13 COLUMN 5
PIN 14 COLUMN 4

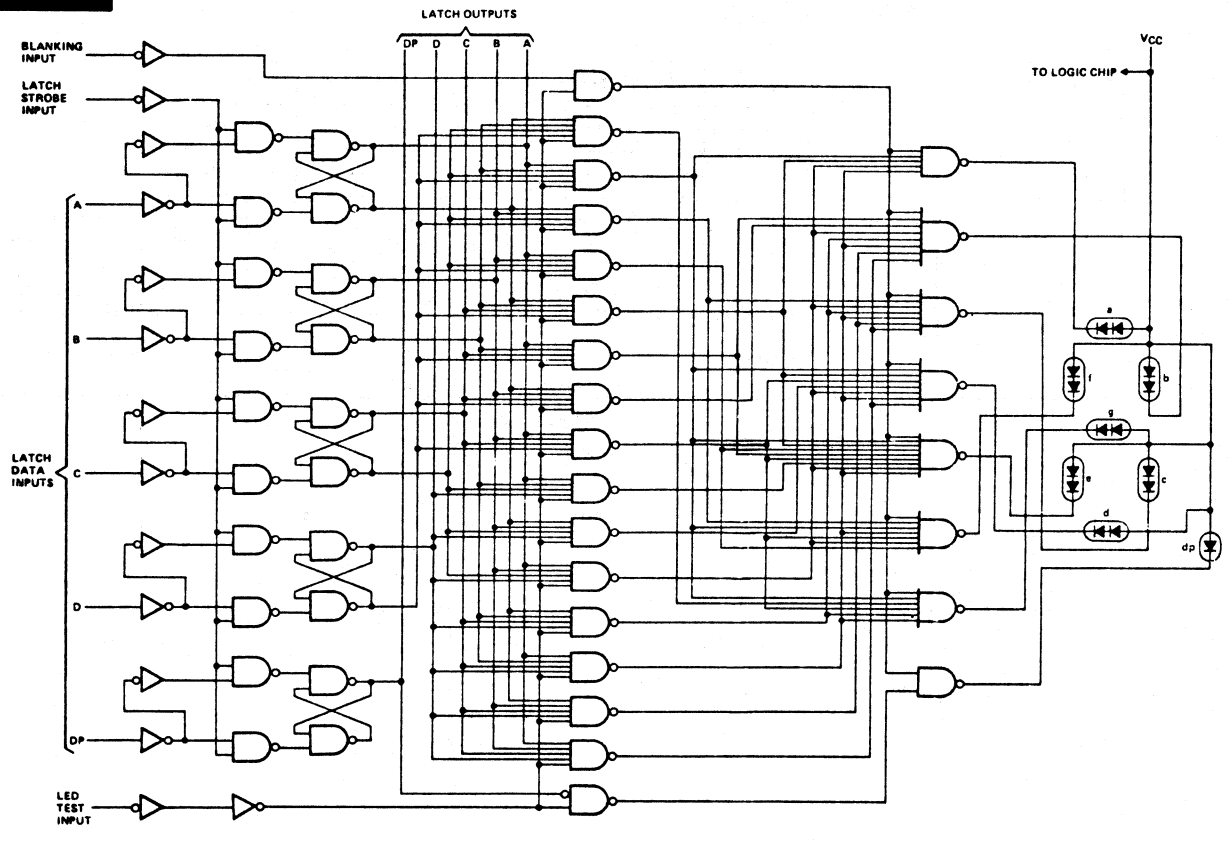
TOP VIEW ORIENTATION

EA5



PIN 1 LATCH OUTPUT Q_B (BINARY WEIGHT 2)
PIN 2 LATCH OUTPUT Q_C (BINARY WEIGHT 4)
PIN 3 LATCH OUTPUT Q_D (BINARY WEIGHT 8)
PIN 4 LATCH OUTPUT Q_A (BINARY WEIGHT 1)
PIN 5 LATCH STROBE INPUT
PIN 6 RIPPLE-BLANKING INPUT
PIN 7 MAXIMUM-COUNT OUTPUT
PIN 8 GROUND
PIN 9 PARALLEL COUNT ENABLE INPUT
PIN 10 SERIAL COUNT ENABLE INPUT
PIN 11 RIPPLE-BLANKING OUTPUT
PIN 12 CLEAR INPUT
PIN 13 DECIMAL POINT INPUT
PIN 14 BLANKING INPUT
PIN 15 CLOCK INPUT
PIN 16 SUPPLY VOLTAGE V_{CC}

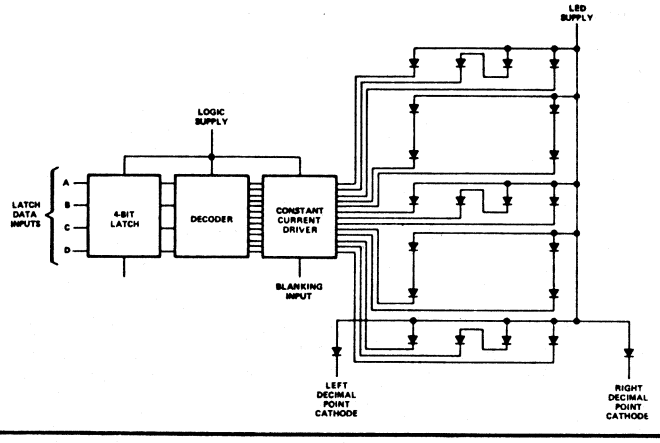
EA6



PIN 1 LATCH OUTPUT Q_B (BINARY WEIGHT 2)
PIN 2 LATCH OUTPUT Q_C (BINARY WEIGHT 4)
PIN 3 LATCH OUTPUT Q_D (BINARY WEIGHT 8)
PIN 4 LATCH OUTPUT Q_A (BINARY WEIGHT 1)
PIN 5 LATCH STROBE INPUT
PIN 6 LATCH DATA INPUT C (BINARY WEIGHT 4)
PIN 7 LATCH DATA INPUT D (BINARY WEIGHT 8)
PIN 8 GROUND
PIN 9 NO INTERNAL CONNECTION
PIN 10 LATCH DATA INPUT B (BINARY WEIGHT 2)
PIN 11 BLANKING INPUT
PIN 12 LATCH DATA INPUT DP
PIN 13 LED TEST
PIN 14 LATCH OUTPUT DP
PIN 15 LATCH DATA INPUT A (BINARY WEIGHT 1)
PIN 16 SUPPLY VOLTAGE, V_{CC}

EA7

PIN 1 LED SUPPLY VOLTAGE
PIN 2 LATCH DATA INPUT B
PIN 3 LATCH DATA INPUT A
PIN 4 LEFT DECIMAL POINT CATHODE
PIN 5 LATCH STROBE INPUT (NO INTERNAL CONNECTION FOR EA7a)
PIN 6 OMITTED (LATCH STROBE INPUT FOR EA7a)
PIN 7 COMMON GROUND
PIN 8 BLANKING INPUT
PIN 9 OMITTED (NO INTERNAL CONNECTION FOR EA7a)
PIN 10 RIGHT DECIMAL POINT CATHODE
PIN 11 OMITTED (NO INTERNAL CONNECTION FOR EA7a)
PIN 12 LATCH DATA INPUT D
PIN 13 LATCH DATA INPUT C
PIN 14 LOGIC SUPPLY VOLTAGE, V_{CC}



EA8

EA8

PIN 1–CATHODE A
PIN 2–CATHODE F
PIN 3–ANODE:DIGIT & DECIMAL
PIN 4–OMITTED
PIN 5–OMITTED
PIN 6–CATHODE LEFT DECIMAL
PIN 7–CATHODE E
PIN 8–CATHODE D
PIN 9–CATHODE RIGHT DECIMAL
PIN 10–CATHODE C
PIN 11–CATHODE G
PIN 12–OMITTED
PIN 13–CATHODE B
PIN 14–ANODE: DIGIT & DECIMAL
PIN 3 IS INTERNALLY CONNECTED TO PIN 14

EA8a

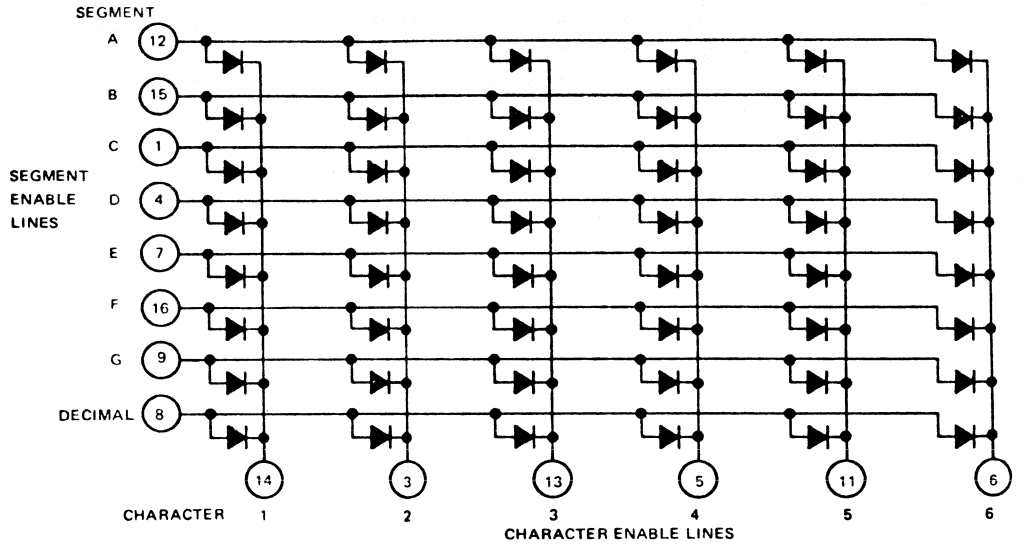
PIN 1–OMITTED
PIN 2–CATHODE: DIGIT & DECIMAL
PIN 3–ANODE F
PIN 4–ANODE G
PIN 5–ANODE E
PIN 6–ANODE D
PIN 7–OMITTED
PIN 8–OMITTED
PIN 9–CATHODE: DIGIT & DECIMAL
PIN 10–ANODE DECIMAL
PIN 11–ANODE C
PIN 12–ANODE B
PIN 13–ANODE A
PIN 14–OMITTED

PIN 2 IS INTERNALLY CONNECTED TO PIN 9

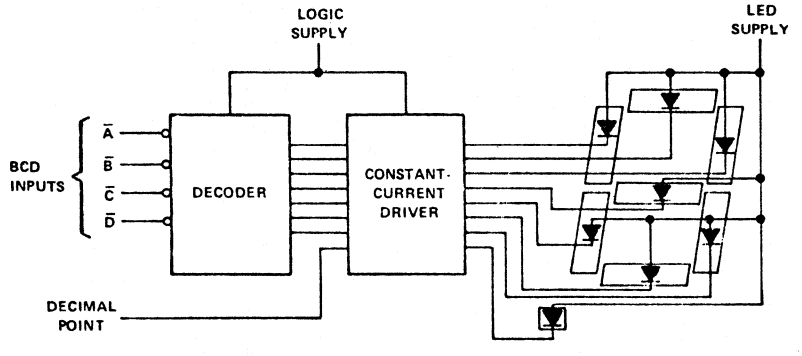
EA8b

PIN 1–ANODE H, ANODE G
PIN 2–OMITTED
PIN 3–OMITTED
PIN 4–CATHODE H, ANODE J
PIN 5–OMITTED
PIN 6–OMITTED
PIN 7–CATHODE J
PIN 8–CATHODE G
PIN 9–CATHODE DECIMAL
PIN 10–CATHODE C
PIN 11–CATHODE B, ANODE C
PIN 12–OMITTED
PIN 13–OMITTED
PIN 14–ANODE B, ANODE DECIMAL

EA9

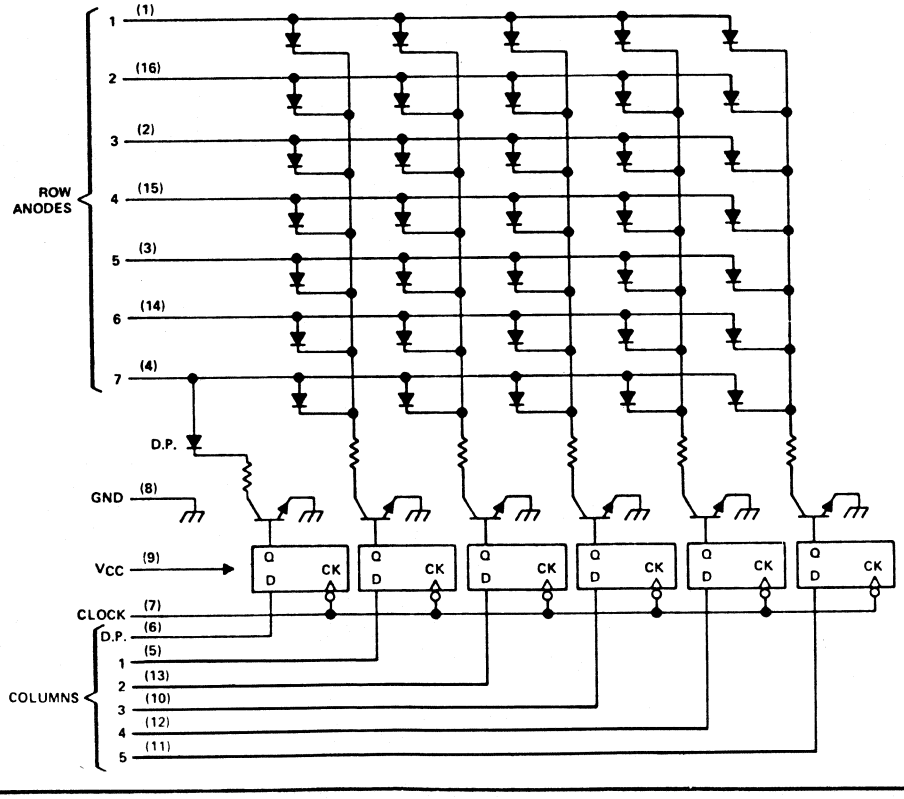


EA12



PIN 1 DATA INPUT $\bar{A}$ (BINARY WEIGHT 1)
PIN 2 DECIMAL POINT INPUT
PIN 3 LED SUPPLY VOLTAGE, V_{LED}
PIN 4 DATA INPUT $\bar{D}$ (BINARY WEIGHT 8)
PIN 5 DATA INPUT $\bar{C}$ (BINARY WEIGHT 4)
PIN 6 GROUND
PIN 7 LOGIC SUPPLY VOLTAGE, V_{CC}
PIN 8 DATA INPUT $\bar{B}$ (BINARY WEIGHT 2)

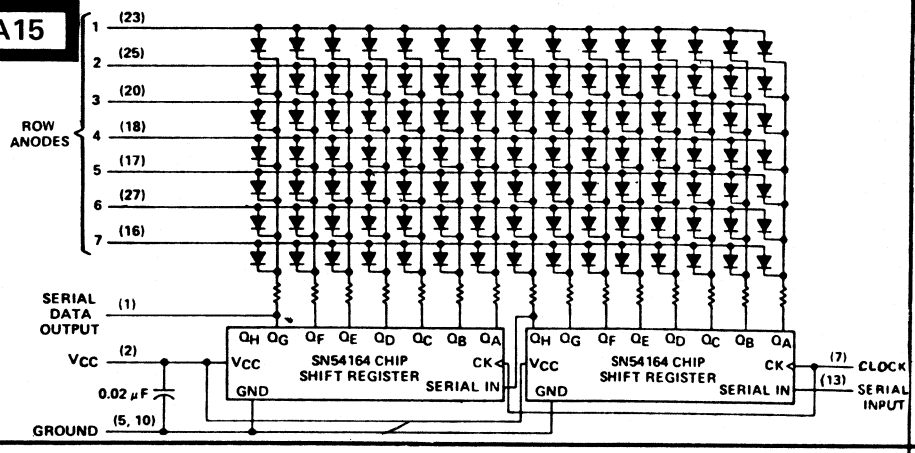
EA13



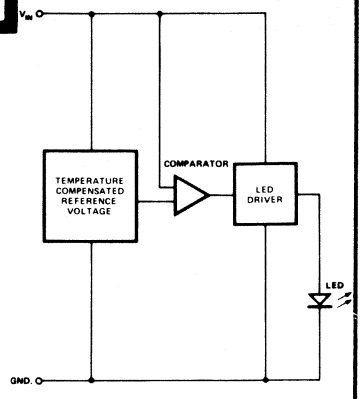
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EA15



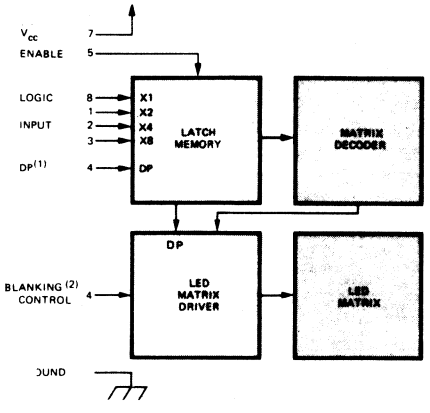
EA16



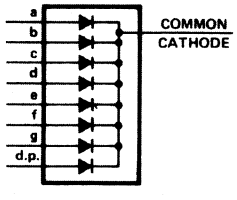
EA17

NOTES:

1) THE DECIMAL POINT INPUT, DP, PERTAINS ONLY TO EA17.
2) THE BLANKLING CONTROL INPUT, B, PERTAINS ONLY TO EA17a.



EA18

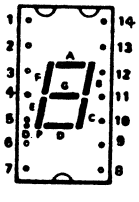


EQUIVALENT CIRCUIT

PIN	FUNCTION
1	CATHODE [3]
2	ANODE - f
3	ANODE - g
4	ANODE - e
5	ANODE - d
6	CATHODE [3]
7	ANODE - dp
8	ANODE - c
9	ANODE - b
10	ANODE - a

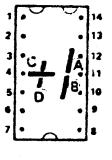
3. Redundant cathodes.

EA19



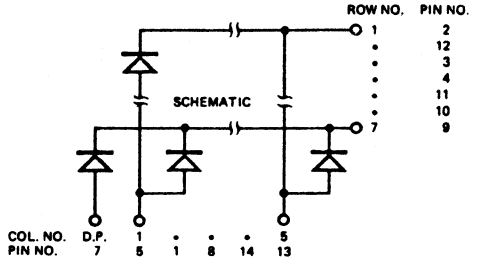
PIN 1 CATHODE A
PIN 2 CATHODE F
PIN 3 ANODE-COMMON
PIN 4 NC
PIN 5 NC
PIN 6 DECIMAL POINT CATHODE
PIN 7 CATHODE E
PIN 8 CATHODE D
PIN 9 ANODE-COMMON
PIN 10 CATHODE C
PIN 11 CATHODE G
PIN 12 NC
PIN 13 CATHODE B
PIN 14 ANODE-COMMON

EA20

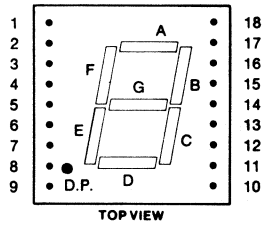


PIN 1 ANODE-COMMON CD
PIN 2 NC
PIN 3 NC
PIN 4 NC
PIN 5 NC
PIN 6 NC
PIN 7 CATHODE D
PIN 8 CATHODE C
PIN 9 NC
PIN 10 CATHODE B
PIN 11 CATHODE A
PIN 12 NC
PIN 13 NC
PIN 14 ANODE-COMMON AB

EA21



EA22



TOP VIEW

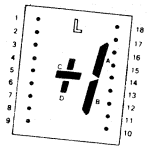
PIN	EA22	EA22a
1	OMITTED	NC
2	CATHODE A	ANODE A
3	CATHODE F	ANODE F
4	ANODE	COMMON CATHODE
5	CATHODE E	ANODE E
6	ANODE	COMMON CATHODE
7	DECIMAL POINT CATHODE	D.P. ANODE
8	NC	NC
9	OMITTED	NC
10	OMITTED	NC
11	CATHODE D	ANODE D
12	ANODE	COMMON CATHODE
13	CATHODE C	ANODE C
14	CATHODE G	ANODE G
15	CATHODE B	ANODE B
16	NC	NC
17	ANODE	COMMON CATHODE
18	OMITTED	NC

PIN	EA22b	EA22c
1	NO PIN	NO PIN
2	CATHODE A	ANODE A
3	CATHODE F	ANODE F
4	COMMON ANODE	COMMON CATHODE
5	CATHODE E	ANODE E
6	NO PIN	NO PIN
7	CATHODE D.P.	ANODE D.P.
8	NO PIN	NO PIN
9	NO PIN	NO PIN
10	NO PIN	NO PIN
11	CATHODE D	ANODE D
12	COMMON ANODE	COMMON CATHODE
13	CATHODE C	ANODE C
14	CATHODE G	ANODE G
15	CATHODE B	ANODE B
16	NO PIN	NO PIN
17	COMMON ANODE	COMMON CATHODE
18	NO PIN	NO PIN

48. SCHEMATIC DRAWINGS

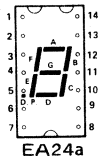
IN DRAWING NUMBER SEQUENCE

EA23

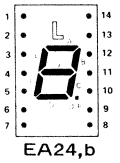


PIN	EA23	EA23a
1	NC	NC
2	Cathode D	Anode D
3	NC	NC
4	NC	NC
5	NC	NC
6	NC	NC
7	NC	NC
8	Common Anode C,D	Common Cathode C,D
9	NC	NC
10	NC	NC
11	Cathode B	Anode B
12	NC	NC
13	NC	NC
14	Common Anode A,B	Common Cathode A,B
15	NC	NC
16	Cathode A	
17	Cathode C	Anode C
18	NC	NC

EA24



EA24a



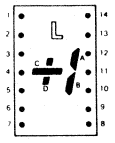
EA24,b

PIN	EA24,b	EA24a	EA24c
1	CATHODE A	ANODE F	ANODE F
2	CATHODE F	ANODE G	ANODE G
3	COM. ANODE	NC	ANODE E
4	NC	COM. CATHODE	DP CATHODE
5	NC	NC	NC
6	DECIMAL PT. CATHODE	ANODE E	DP ANODE
7	CATHODE E	ANODE D	ANODE D
8	CATHODE D	ANODE C	ANODE D
9	COM. ANODE		NC
10	CATHODE C	NC	NC
11	CATHODE G	NC	NC
12	NC	COM. CATHODE	COM. CATHODE EXCEPT DECIMAL
13	CATHODE B	ANODE B	ANODE B
14	COM. ANODE	ANODE A	ANODE A

Jumper Pins 3, 9, and 14 on Circuit Board for Common Anode.

Jumper Pins 4 and 12 on Circuit Board for Common Cathode.

EA25

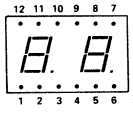


PIN

1	Anode-Common CD
2	NC
3	NC
4	NC
5	NC
6	NC
7	Cathode D
8	Cathode C
9	NC
10	Cathode B
11	Cathode A
12	NC
13	NC
14	Anode-Common AB

Jumper Pins 1 and 14 on Circuit Board for Common Anode.

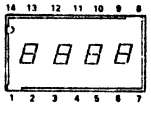
EA26



PIN

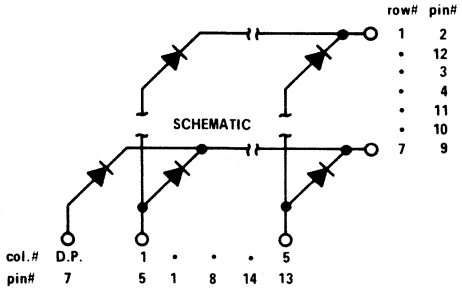
1	NC
2	Anode E
3	Anode D
4	NC
5	Anode C
6	D.P. Anode
7	Cathode Digit #2
8	Anode B
9	Anode G
10	Anode A
11	Anode F
12	Cathode Digit #1

EA28

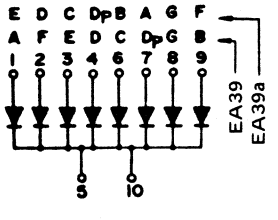


1	NC
2	Anode E
3	Anode D
4	Anode C
5	D.P. Anode
6	Anode G
7	Cathode 4
8	NC
9	Anode B
10	Cathode 3
11	Anode F
12	Cathode 2
13	Anode A
14	Cathode 1

EA36



EA39



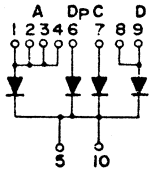
EA39b is inverse connection of EA39 diode polarity

EA39c is inverse connection of EA39a diode polarity

48. SCHEMATIC DRAWINGS

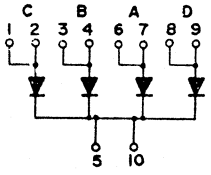
IN DRAWING NUMBER SEQUENCE

EA40



EA40a is inverse connection of EA40 diode polarity

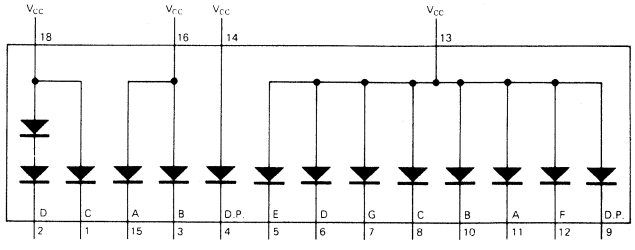
EA41



EA41a is inverse connection of EA41 diode polarity

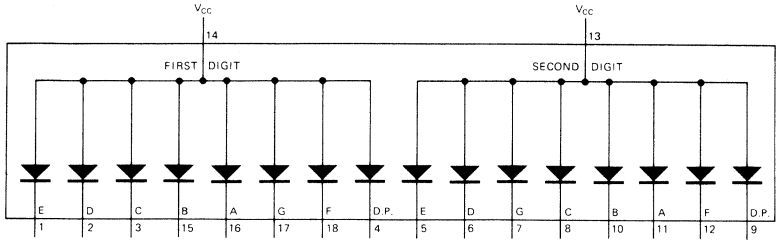
EA45

PIN	FUNCTION
1	CATHODE C (NO. 1)
2	CATHODE D (NO. 1)
3	CATHODE B (NO. 1)
4	D. P. CATHODE (NO. 1)
5	CATHODE E (NO. 2)
6	CATHODE D (NO. 2)
7	CATHODE G (NO. 2)
8	CATHODE C (NO. 2)
9	D. P. CATHODE (NO. 2)
10	CATHODE B (NO. 2)
11	CATHODE A (NO. 2)
12	CATHODE F (NO. 2)
13	ANODE DIGIT (NO. 2)
14	ANODE D. P. (NO. 1)
15	CATHODE A (NO. 1)
16	ANODE NO. 1 A AND B
17	N. C.
18	ANODE NO. 1 C AND D



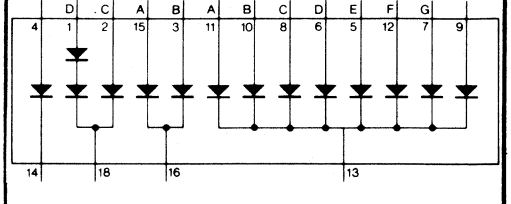
EA46

PIN	FUNCTION
1	E CATHODE (NO. 1)
2	D CATHODE (NO. 1)
3	C CATHODE (NO. 1)
4	D. P. CATHODE (NO. 1)
5	E CATHODE (NO. 2)
6	D CATHODE (NO. 2)
7	G CATHODE (NO. 2)
8	C CATHODE (NO. 2)
9	D. P. CATHODE (NO. 2)
10	B CATHODE (NO. 2)
11	A CATHODE (NO. 2)
12	F CATHODE (NO. 2)
13	NO. 2 ANODE
14	NO. 1 ANODE
15	B CATHODE (NO. 1)
16	A CATHODE (NO. 1)
17	G CATHODE (NO. 1)
18	F CATHODE (NO. 1)

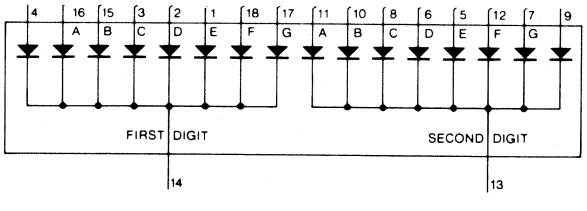


EA47

PIN	FUNCTION
1	ANODE D #1
2	ANODE C #1
3	ANODE B #1
4	D.P. ANODE #1
5	ANODE E #2
6	ANODE D #2
7	ANODE G #2
8	ANODE C #2
9	D.P. ANODE #2
10	ANODE B #2
11	ANODE A #2
12	ANODE F #2
13	COMMON CATHODE #2
14	D.P. CATHODE #1
15	ANODE A #1
16	COMMON CATHODE A&B #1
17	N.C.
18	COMMON CATHODE C&D #1



EA48

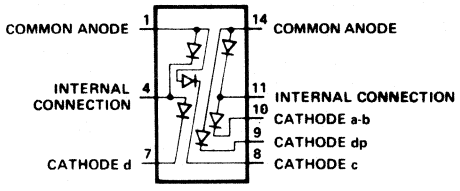


PIN	FUNCTION
1	E ANODE NO. 1
2	D ANODE NO. 1
3	C ANODE NO. 1
4	D.P. ANODE NO. 1
5	E ANODE NO. 2
6	D ANODE NO. 2
7	G ANODE NO. 2
8	C ANODE NO. 2
9	D.P. ANODE NO. 2
10	B ANODE NO. 2
11	A ANODE NO. 2
12	F ANODE NO. 2
13	COMMON CATHODE NO. 2
14	COMMON CATHODE NO. 1
15	B ANODE NO. 1
16	A ANODE NO. 1
17	G ANODE NO. 1
18	F ANODE NO. 1

48. SCHEMATIC DRAWINGS

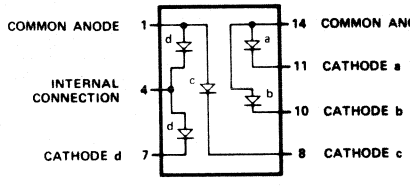
IN DRAWING NUMBER SEQUENCE

EA50



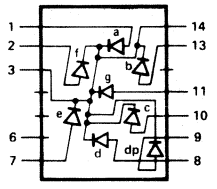
PIN NO.	FUNCTION
1	Anode c, d
2	No Pin
3	No Pin
4	Internal Connection
5	No Pin
6	No Pin
7	Cathode d
8	Cathode c
9	Cathode dp
10	Cathode a-b
11	Internal Connection
12	No Pin
13	No Pin
14	Anode a-b, dp

EA51



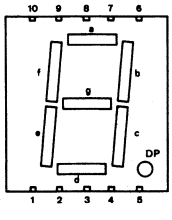
PIN NO.	FUNCTION
1	Anode c, d
2	No Pin
3	No Pin
4	Internal Connection
5	No Pin
6	No Pin
7	Cathode d
8	Cathode c
9	No Pin
10	Cathode b
11	Cathode a
12	No Pin
13	No Pin
14	Anode a, b

EA52



PIN	FUNCTION
1	ANODE - a
2	ANODE -f
3	CATHODE
4	NO PIN
5	NO PIN
6	NO CONN.
7	ANODE - e
8	ANODE - d
9	ANODE - dp
10	ANODE - c
11	ANODE - g
12	NO PIN
13	ANODE - b
14	CATHODE

EA53



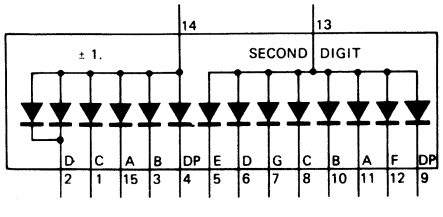
Pin connections:

Pin	EA53	EA53a
1	Segment e	Segment e
2	Segment d	Segment d
3	Anode	Kathode
4	Segment c	Segment c
5	DP	DP
6	Segment b	Segment b
7	Segment a	Segment a
8	Anode	Kathode
9	Segment f	Segment f
10	Segment g	Segment g

EA54

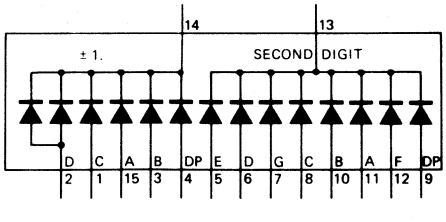
Pin	.3" NUMERICS			.6" NUMERICS	
	Common Anode Left Decimal	Common Anode Right Decimal	Common Cathode Right Decimal	Common Anode Left Decimal	Common Cathode Left Decimal
1	Cathode A	Cathode A	Anode F	Cathode A	Anode A
2	Cathode F	Cathode F	Anode G	Cathode F	Anode F
3	Common Anode	Common Anode	No Pin	Common Anode	Common Cathode
4	No Pin	No Pin	Common Cathode	Cathode E	Anode E
5	No Pin	No Pin	No Pin	No Pin	No Pin
6	Cathode DP	NC	Anode E	Cathode DP	Anode DP
7	Cathode E	Cathode E	Anode D	No Pin	No Pin
8	Cathode D	Cathode D	Anode C	Cathode D	Anode D
9	NC	Cathode DP	Anode DP	Common Anode	Common Cathode
10	Cathode C	Cathode C	No Pin	Cathode C	Anode C
11	Cathode G	Cathode G	No Pin	Cathode G	Anode G
12	No Pin	No Pin	Common Cathode	Cathode B	Anode B
13	Cathode B	Cathode B	Anode B	No Pin	No Pin
14	Common Anode	Common Anode	Anode A	Common Anode	Common Cathode
	EA54	EA54a	EA54b	EA54c	EA54d

EA55



PIN	FUNCTION
1	C cathode (No. 1)
2	D cathode (No. 1)
3	B cathode (No. 1)
4	DP cathode (No. 1)
5	E cathode (No. 2)
6	D cathode (No. 2)
7	G cathode (No. 2)
8	C cathode (No. 2)
9	DP cathode (No. 2)
10	B cathode (No. 2)
11	A cathode (No. 2)
12	F cathode (No. 2)
13	Digit No. 2 anode
14	Digit No. 1 anode
15	A cathode (No. 1)
16	No connection
17	No connection
18	No connection

EA56



PIN	FUNCTION
1	C anode (No. 1)
2	D anode (No. 1)
3	B anode (No. 1)
4	DP anode (No. 1)
5	E anode (No. 2)
6	D anode (No. 2)
7	G anode (No. 2)
8	C anode (No. 2)
9	DP anode (No. 2)
10	B anode (No. 2)
11	A anode (No. 2)
12	F anode (No. 2)
13	Digit No. 2 cathode
14	Digit No. 1 cathode
15	A anode (No. 1)
16	No connection
17	No connection
18	No connection

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

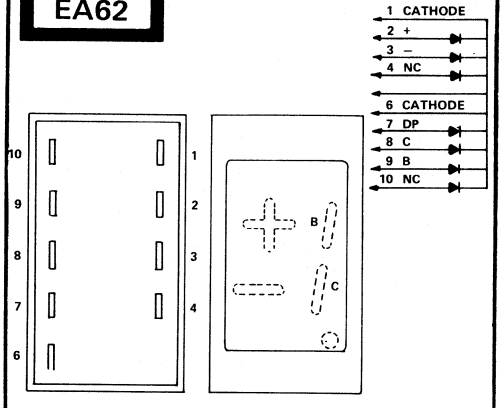
EA58

TAB ASSIGNMENTS

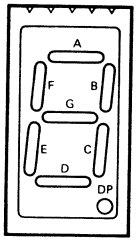
TAB	FUNCTION
1	NO INTERNAL CONNECTION
2	DIGIT 1 CATHODE†
3	SEGMENT C ANODES
4	DIGIT 2 CATHODE
5	DECIMAL POINT ANODES
6	DIGIT 3 CATHODE
7	SEGMENT A ANODES
8	DIGIT 4 CATHODE
EA58 9	SEGMENT E ANODES
10	DIGIT 5 CATHODE
11	SEGMENT D ANODES
12	DIGIT 6 CATHODE
13	SEGMENT G ANODES
14	DIGIT 7 CATHODE
15	SEGMENT B ANODES
16	DIGIT 8 CATHODE
17	SEGMENT F ANODES
18	DIGIT 9 CATHODE

EA58a – NO EXTERNAL CONNECTION TO TAB 2.
EA58b – NO EXTERNAL CONNECTION TO TAB 2,4, OR 18.

EA62

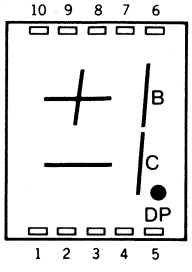


EA63



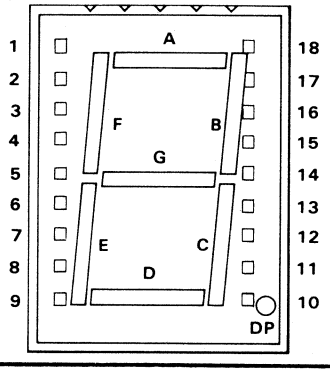
	EA63	EA63a
Pin 1.	Common Cathode	Common Anode
Pin 2.	Segment F	Segment F
Pin 3.	Segment G	Segment G
Pin 4.	Segment E	Segment E
Pin 5.	Segment D	Segment D
Pin 6.	Common Cathode	Common Anode
Pin 7.	Decimal	Decimal Point
Pin 8.	Segment C	Segment C
Pin 9.	Segment B	Segment B
Pin 10.	Segment A	Segment A

EA64



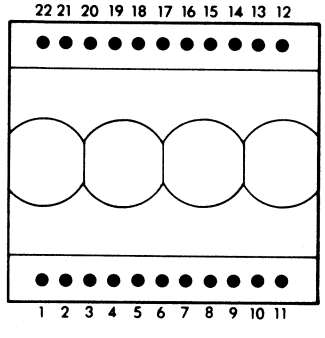
PIN	EA64	EA64a
1	Minus	Minus
2	Cathode ±	Anode ±
3	Segment C	Segment C
4	Cathode 1/D.P.	Anode 1/D.P.
5	D.P.	D.P.
6	Segment B	Segment B
7	Cathode 1/D.P.	Anode 1/D.P.
8	Cathode ±	Anode ±
9	Plus	Plus
10	N.C.	N.C.

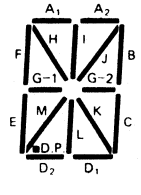
EA65



PIN	EA65	EA65a
1	Omitted	Omitted
2	Segment A	Segment A
3	Segment F	Segment F
4	Common Cath.	Common Anode
5	Segment E	Segment E
6	Common Cath.	Common Anode
7	N.C.	N.C.
8	Omitted	Omitted
9	Omitted	Omitted
10	Decimal Point	Decimal Point
11	Segment D	Segment D
12	Common Cath.	Common Anode
13	Segment C	Segment C
14	Segment G	Segment G
15	Segment B	Segment B
16	Omitted	Omitted
17	Common Cath.	Common Anode
18	Omitted	Omitted

EA66





PIN	FUNCTION
1	G_1 Anode
2	Decimal Point Anode
3	Common Cathode Digit 1
4	D_2 Anode
5	L Anode
6	Common Cathode Digit 3
7	E Anode
8	M Anode
9	K Anode
10	Common Cathode Digit 4
11	D_1 Anode
12	J Anode
13	NC
14	G_2 Anode
15	A_2 Anode
16	I Anode
17	Common Cathode Digit 2
18	B Anode
19	A_1 Anode
20	C Anode
21	H Anode
22	F Anode

EA67

EA67

PIN	FUNCTION
1	A CATHODE DIGIT 1
2	D_1 CATHODE DIGIT 1
3	C CATHODE DIGIT 1
4	D_2 CATHODE DIGIT 1
5	B CATHODE DIGIT 1
6	COMMON ANODE DIGIT 1
7	DECIMAL POINT CATHODE DIGIT 1
8	COMMON ANODE DIGIT 2
9	DECIMAL POINT CATHODE DIGIT 2
10	A CATHODE
11	F CATHODE
12	E CATHODE
13	D CATHODE
14	COMMON ANODE DIGIT 3
15	DECIMAL POINT CATHODE DIGIT 3
16	C CATHODE
17	G CATHODE
18	B CATHODE
19	COMMON ANODE DIGIT 4
20	DECIMAL POINT CATHODE DIGIT 4

EA67a

PIN	FUNCTION
1	COMMON ANODE DIGIT 1
2	DECIMAL POINT CATHODE DIGIT 1
3	COMMON ANODE DIGIT 2
4	DECIMAL POINT CATHODE DIGIT 2
5	A CATHODE
6	F CATHODE
7	E CATHODE
8	D CATHODE
9	COMMON ANODE DIGIT 3
10	DECIMAL POINT CATHODE DIGIT 3
11	C CATHODE
12	G CATHODE
13	B CATHODE
14	COMMON ANODE DIGIT 4
15	DECIMAL POINT CATHODE DIGIT 4

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EA68

EA68

PIN	FUNCTION
1	INDICATOR ANODE
2	F ANODE DIGIT 1
3	E ANODE DIGIT 1
4	D ANODE DIGIT 1
5	COMMON CATHODE DIGIT 1 AND INDICATOR
6	G ANODE DIGIT 1
7	C ANODE DIGIT 1
8	A ANODE DIGIT 1
9	B ANODE DIGIT 1
10	F ANODE DIGIT 2
11	E ANODE DIGIT 2
12	D ANODE DIGIT 2
13	COMMON CATHODE DIGIT 2
14	C ANODE DIGIT 2
15	G ANODE DIGIT 2
16	A ANODE DIGIT 2
17	B ANODE DIGIT 2
18	COLON ANODE
19	COLON CATHODE
20	F ANODE DIGIT 3
21	E ANODE DIGIT 3
22	D ANODE DIGIT 3
23	COMMON CATHODE DIGIT 3
24	G ANODE DIGIT 3
25	C ANODE DIGIT 3
26	A ANODE DIGIT 3
27	B ANODE DIGIT 3
28	F ANODE DIGIT 4
29	E ANODE DIGIT 4
30	D ANODE DIGIT 4
31	NOT CONNECTED
32	COMMON CATHODE DIGIT 4 AND INDICATOR
33	G ANODE DIGIT 4
34	C ANODE DIGIT 4
35	INDICATOR ANODE
36	A ANODE DIGIT 4
37	B ANODE DIGIT 4

EA68a

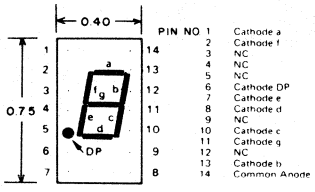
PIN	FUNCTION
1	ALARM INDICATOR ANODE
2	PM INDICATOR ANODE
3	AM INDICATOR ANODE
4	COMMON CATHODE DIGIT 1 AND INDICATORS
5	A ANODE
6	F ANODE
7	B ANODE
8	G ANODE
9	COMMON CATHODE DIGIT 2 AND COLONS
10	COLON 1 ANODE
11	COLON 2 ANODE
12	D ANODE
13	C ANODE
14	E ANODE
15	COMMON CATHODE DIGIT 3
16	COMMON CATHODE DIGIT 4 AND INDICATOR
17	INDICATOR ANODE (OPTIONAL)

EA68b

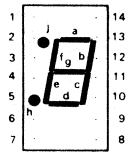
PIN	FUNCTION
1	DIGIT COMMON CATHODE
2	F ANODE DIGIT 1
3	E ANODE DIGIT 1
4	D ANODE DIGIT 1
5	C ANODE DIGIT 1
6	G ANODE DIGIT 1
7	B ANODE DIGIT 1
8	A ANODE DIGIT 1
9	F ANODE DIGIT 2
10	G ANODE DIGIT 2
11	E ANODE DIGIT 2
12	D ANODE DIGIT 2
13	C ANODE DIGIT 2
14	B ANODE DIGIT 2
15	A ANODE DIGIT 2
16	COLON ANODE
17	COLON ANODE
18	F ANODE DIGIT 3
19	G ANODE DIGIT 3
20	E ANODE DIGIT 3
21	D ANODE DIGIT 3
22	C ANODE DIGIT 3
23	B ANODE DIGIT 3
24	A ANODE DIGIT 3
25	F ANODE DIGIT 4
26	G ANODE DIGIT 4
27	E ANODE DIGIT 4
28	D ANODE DIGIT 4
29	C ANODE DIGIT 4
30	B ANODE DIGIT 4
31	A ANODE DIGIT 4
32	INDICATOR ANODE LEFT SIDE
33	INDICATOR CATHODE LEFT SIDE
34	INDICATOR ANODE LEFT SIDE
35	INDICATOR ANODE LEFT SIDE
36	INDICATOR CATHODE RIGHT SIDE
37	INDICATOR ANODE RIGHT SIDE
38	INDICATOR ANODE RIGHT SIDE
39	INDICATOR ANODE RIGHT SIDE

EA69

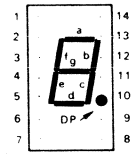
CHARACTER HEIGHT 0.33 in.



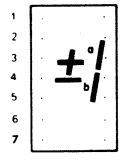
PIN NO.	
1	Cathode a
2	Cathode f
3	NC
4	NC
5	NC
6	Cathode DP
7	Cathode e
8	Cathode d
9	NC
10	Cathode c
11	Cathode g
12	NC
13	Cathode b
14	Common Anode



PIN NO.	
1	Cathode a
2	Cathode f
3	Cathode j
4	NC
5	NC
6	Cathode h
7	Cathode e
8	Cathode d
9	NC
10	Cathode c
11	Cathode g
12	NC
13	Cathode b
14	Common Anode



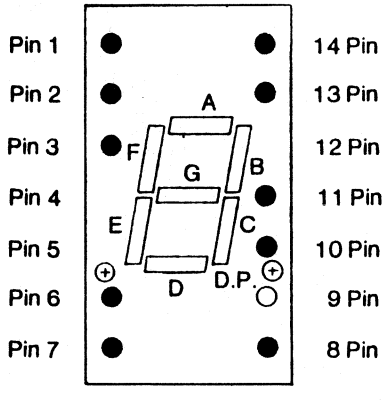
PIN NO.	
1	Cathode a
2	NC
3	Cathode f
4	Cathode g
5	NC
6	Cathode e
7	Common Anode
8	Cathode d
9	Cathode c
10	Cathode DP
11	NC
12	NC
13	NC
14	Cathode b



PIN NO.	
1	Anode +
2	NC
3	NC
4	NC
5	NC
6	NC
7	Cathode +
8	Cathode -
9	NC
10	Cathode b
11	Cathode a
12	NC
13	NC
14	Common Anode for a, b and -

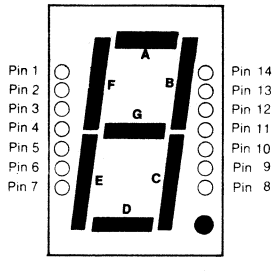
14 PIN DIP

EA72



PIN	FUNCTION
1	Cathode A
2	Cathode F
3	Common Anode
4	No Pin
5	No Pin
6	Cathode DP
7	Cathode E
8	Cathode D
9	NC
10	Cathode C
11	Cathode G
13	Cathode B
14	Common Anode

EA75



PIN ASSIGNMENTS

Pin No.	FUNCTION	Pin No.	FUNCTION
1	Cathode A	14	Anode
2	Cathode F	13	Cathode B
3	Anode	12	Omitted
4	Omitted	11	Cathode G
5	Omitted	10	Cathode C
6	Anode '	9	Cathode DP
7	Cathode E	8	Cathode D

EA75—PINS 3, 6 & 14 ARE INTERNALLY CONNECTED.

EA75b — PINS 3 & 4 ARE INTERNALLY CONNECTED.

PIN ASSIGNMENTS

Pin No.	FUNCTION	Pin No.	FUNCTION
1	Anode A	14	Cathode
2	Anode ' F	13	Anode B
3	Cathode	12	Omitted
4	Omitted	11	Anode G
5	Omitted	10	Anode C
6	Cathode	9	Anode DP
7	Anode E	8	Anode D

EA75a — PINS 3, 6 & 14 ARE INTERNALLY CONNECTED.

EA75c — PINS 3 & 4 ARE INTERNALLY CONNECTED.

EA76

COMMON ANODE

Pin No.	Function	Pin No.	Function
1	Omitted	14	Anode
2	Cathode (H,J)	13	Cathode B
3	omitted	12	Omitted
4	Cathode G	11	Omitted
5	Anode	10	Cathode C
6	Omitted	9	Cathode DP
7	Omitted	8	Omitted

SEGMENTS H AND J ARE INTERNALLY CONNECTED IN SERIES. PINS 5 AND 14 ARE INTERNALLY COMMONED

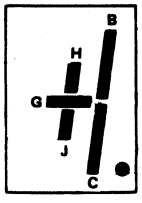
EA76

COMMON CATHODE

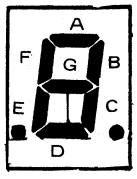
Pin No.	Function	Pin No.	Function
1	Omitted	14	Cathode
2	Anode (H,J)	13	Anode B
3	Omitted	12	Omitted
4	Anode G	11	Omitted
5	Cathode	10	Anode C
6	Omitted	9	Anode DP
7	Omitted	8	Omitted

SEGMENTS H AND J ARE INTERNALLY CONNECTED IN SERIES. PINS 5 AND 14 ARE INTERNALLY COMMONED

EA76a



EA76
EA76a



EA76b
EA76c

COMMON ANODE

Pin No.	Function	Pin No.	Function
1	Cathode A	14	Anode
2	Cathode F	13	Omitted
3	Anode	12	Cathode B
4	Cathode E	11	Cathode G
5	Anode	10	Cathode C
6	Cathode D.P.	9	Anode
7	Omitted	8	Cathode D

PINS 3, 5, 9 & 14 INTERNALLY COMMONED

EA76b

COMMON CATHODE

Pin No.	Function	Pin No.	Function
1	Anode A	14	Cathode
2	Anode F	13	Omitted
3	Cathode	12	Anode B
4	Anode E	11	Anode G
5	Cathode	10	Anode C
6	Anode D.P.	9	Cathode
7	Omitted	8	Anode D

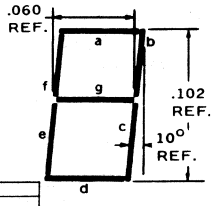
PINS 3, 5, 9 & 14 INTERNALLY COMMONED

EA76c

EA79

	PIN NUMBERS							
	1	2	3	4	5	6	7	8
EA79	Inp2	Inp4	Inp8	DECIMAL POINT	LATCH ENABLE	GND	VCC	Inp1
EA79a	Inp2	Inp4	Inp8	BLANKING CONTROL	LATCH ENABLE	GND	VCC	Inp1

EA80



PIN No.	EA80 FUNCTION	PIN No.	EA80a FUNCTION
1	N.C	1	DIG.1 CATHODE
2	SEG. c ANODE	2	SEG.c ANODE
3	DIG.2 CATHODE	3	DIG.2 CATHODE
4	D.P. ANODE	4	D.P. ANODE
5	DIG. 3 CATHODE	5	DIG.3 CATHODE
6	SEG.a ANODE	6	SEG.a ANODE
7	DIG.4 CATHODE	7	DIG.4 CATHODE
8	SEG.e ANODE	8	SEG.e ANODE
9	DIG.5 CATHODE	9	DIG.5 CATHODE
10	SEG.d ANODE	10	SEG.d ANODE
11	DIG.6 CATHODE	11	DIG.6 CATHODE
12	SEG.g ANODE	12	SEG.g ANODE
13	DIG.7 CATHODE	13	DIG.7 CATHODE
14	SEG.b ANODE	14	SEG.b ANODE
15	DIG.8 CATHODE	15	DIG.8 CATHODE
16	SEG.f ANODE	16	SEG.f ANODE
17	DIG.9 CATHODE	17	DIG.9 CATHODE

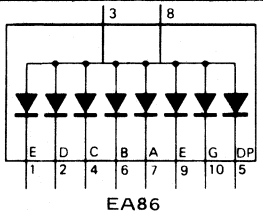
EA84

EA84 PIN No.	PIN CONNECTIONS	EA84a PIN No.	PIN CONNECTIONS
1	DIGIT 1 C ANODE	1	DIGIT 1 C CATHODE
2	DIGIT 1 E ANODE	2	DIGIT 1 E CATHODE
3	DIGIT 1 D ANODE	3	DIGIT 1 D CATHODE
4	DIGIT COMMON CATHODE	4	DIGIT COMMON ANODE
5	DIGIT 2 COMMON CATHODE	5	DIGIT 2 COMMON ANODE
6	DIGIT 2 D ANODE	6	DIGIT 2 D CATHODE
7	DIGIT 2 E ANODE	7	DIGIT 2 E CATHODE
8	DIGIT 2 C ANODE	8	DIGIT 2 C CATHODE
9	DIGIT 2 G ANODE	9	DIGIT 2 G CATHODE
10	DIGIT 2 A ANODE	10	DIGIT 2 A CATHODE
11	DIGIT 2 F ANODE	11	DIGIT 2 F CATHODE
12	DIGIT 2 B ANODE	12	DIGIT 2 B CATHODE
13	DIGIT 1 B ANODE	13	DIGIT 1 B CATHODE
14	DIGIT 1 F ANODE	14	DIGIT 1 F CATHODE
15	DIGIT 1 A ANODE	15	DIGIT 1 A CATHODE
16	DIGIT 1 G ANODE	16	DIGIT 1 G CATHODE

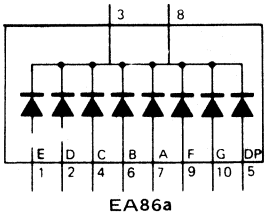
EA85

1. Anode (common)
2. Cathode A
3. Cathode F
4. Anode
5. No pin
6. No pin
7. No pin
8. Cathode E
9. Anode
10. Anode
11. No pin
12. Cathode H
13. Cathode D
14. Cathode C
15. Cathode G
16. No pin
17. Cathode B
18. Anode

EA86



EA86



EA86a

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

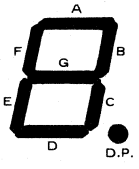
EA88

EA88
PIN CONNECTIONS

1 CATHODE E
2 CATHODE D
3 CATHODE C
4 COMMON ANODE
5 CATHODE D.P.
6 CATHODE B
7 CATHODE G
8 CATHODE A
9 COMMON ANODE
10 CATHODE F

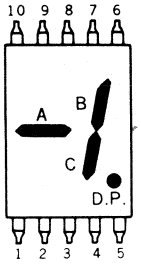
EA88a
PIN CONNECTIONS

1 ANODE E
2 ANODE D
3 ANODE C
4 COMMON CATHODE
5 ANODE D.P.
6 ANODE B
7 ANODE G
8 ANODE A
9 COMMON CATHODE
10 ANODE F



EA89

PIN CONFIGURATION



PIN	FUNCTION
1.	N.C.
2.	N.C.
3.	Cathode C
4.	Common Anode
5.	Cathode D.P.
6.	Cathode B
7.	N.C.
8.	N.C.
9.	Common Anode
10.	Cathode A

EA90

PIN CONNECTION (Top View)

1. NC
2. Cathode D
3. Cathode C
4. Common Anode
5. NC
6. NC
7. Cathode B
8. Cathode A
9. Common Anode
10. NC

EA91

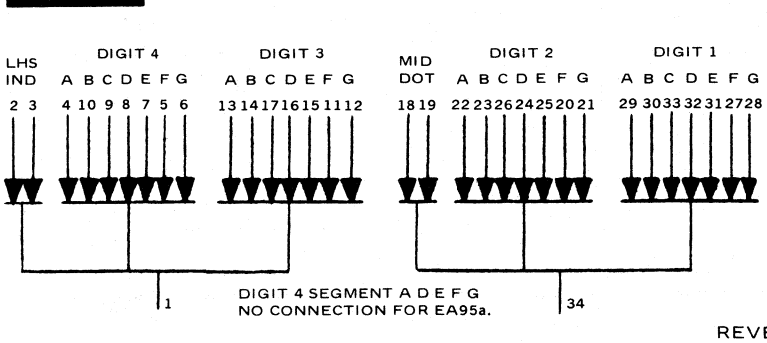
ALL VERSIONS		PINS NOT CONNECTED (NC)					
PIN CONNECTIONS		EA91	EA91a	EA91b	EA91c	EA91d	EA91e
PIN NO.	CONNECTION						
1	AM, PM 10's HOUR AND UNIT HOUR COMMON						
2	PM			NC			NC
3	AM			NC			NC
4	10's HOUR A		NC			NC	
5	" F		NC			NC	
6	" G		NC			NC	
7	" E		NC			NC	
8	" D		NC			NC	
9	" C						
10	" B						
11	UNIT HOUR F						
12	" G						
13	" A						
14	" B						
15	" E						
16	" D						
17	" C						
18	UPPER COLON						
19	LOWER COLON						
20	10's MIN. F						
21	" G						
22	" A						
23	" B						
24	" D						
25	" E						
26	" C						
27	UNIT MIN. F						
28	" G						
29	" A						
30	" B						
31	" E						
32	" D						
33	" C						
34	COLONS, 10's MIN. AND UNIT MIN.	COMMON ANODE			COMMON CATHODE		

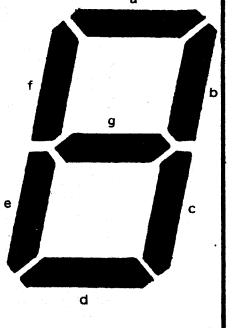
EA92

PIN CONNECTIONS	
PIN NO.	CONNECTION
1	AM/PM ANODE
2	AM/PM, 10's HOUR AND UNIT HOUR COMMON CATHODE
3	NC
4	NC
5	10's HOUR A ANODE
6	" F "
7	" G "
8	" E "
9	" D "
10	" C "
11	" B "
12	UNIT HOUR F "
13	" G "
14	" A "
15	" B "
16	" E "
17	" D "
18	NC
19	UNIT HOUR C ANODE
20	UPPER COLON "
21	LOWER COLON "
22	10's MIN F "
23	" G "
24	" A "
25	" B "
26	" D "
27	" F "
28	" C "
29	UNIT MIN F "
30	" G "
31	" A "
32	" B "
33	" E "
34	" D "
35	" C "
36	COLONS, 10's MIN, UNIT MIN, AND ALARM/SLEEP COMMON CATHODE
37	ALARM/SLEEP ANODE

EA92: COMMON ANODE CONNECTIONS
EA92a: COMMON CATHODE CONNECTIONS

EA95



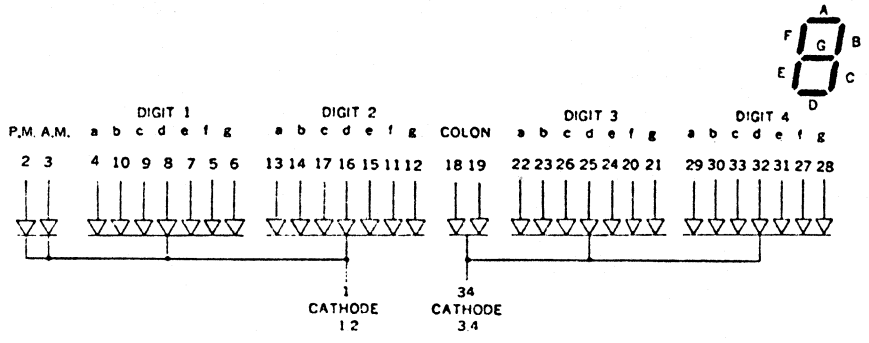


REVERSE DIODE POLARITY FOR EA95b

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EA96



PIN	COMMON ANODE EA97b	COMMON CATHODE EA97c
1	Cathode D	Anode D
4	Cathode E and Anode D	Anode E and Cathode D
7	Anode C,E	Cathode C,E
8	Cathode B	Anode B
11	Anode A,B	Cathode A,B
13	Cathode A	Anode A
14	Cathode C	Anode C

Pins omitted: 2,3,5,6,9,10,12

EA97

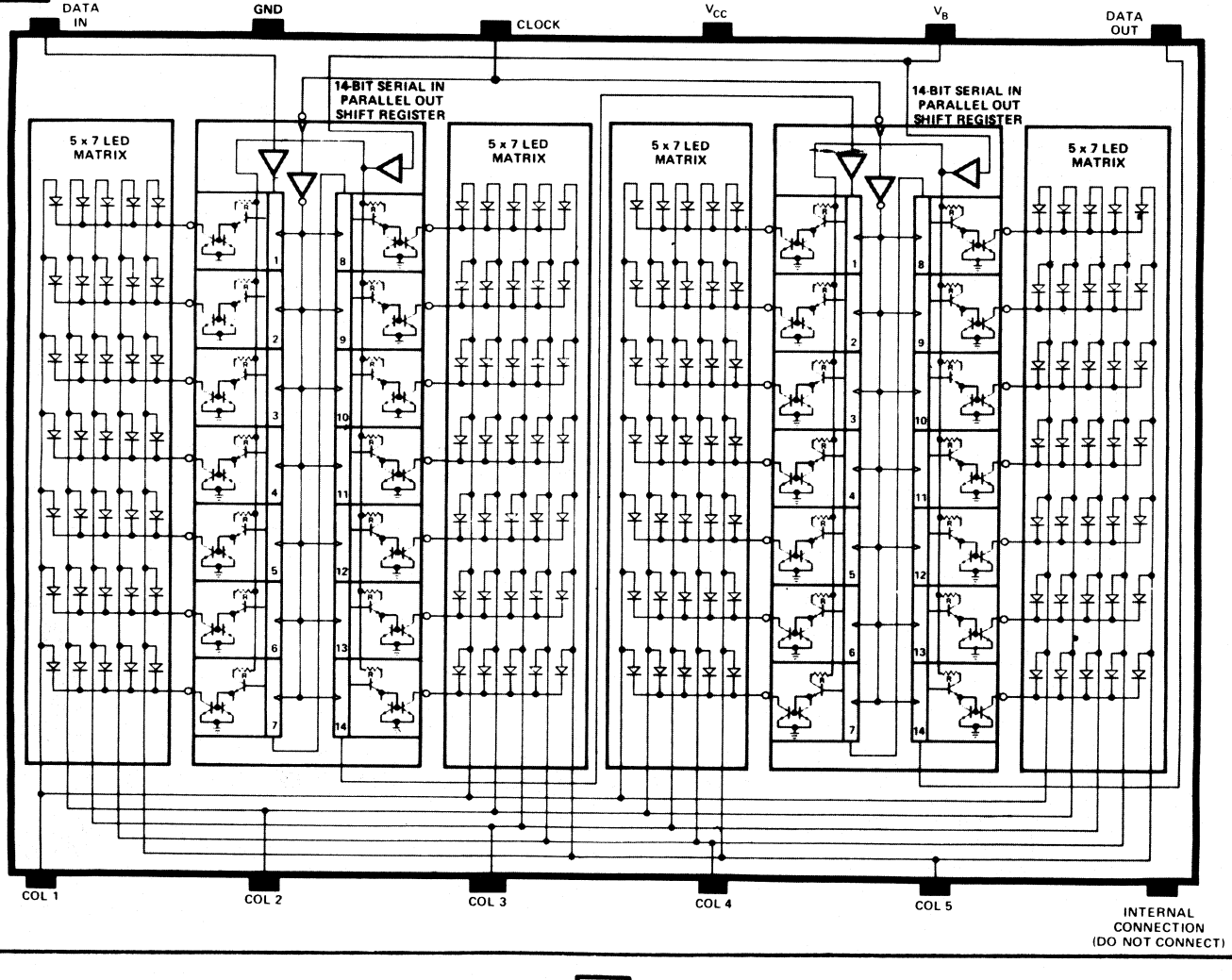
PINOUTS - COMMON ANODE EA97	
PIN	Function
1	Anode C,D
4	Internal Connection (anode E, cathode D)
7	Cathode E
8	Cathode C
9	Cathode DP
10	Cathode B
11	Cathode A
14	Anode A,B,DP

Pins omitted: 2,3,5,6,12,13

PINOUTS - COMMON ANODE -- EA97a	
PIN	Function
1	Anode C,D,E
7	Cathode E,D
8	Cathode C
10	Cathode B
11	Cathode A
14	Common Anode A,B

Pins omitted: 2,3,4,5,6,9,12,13

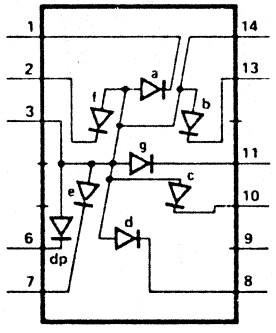
EA98



EA99

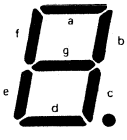
Pin No.	EA99 Function	EA99a Function
1	Anode Segment b	Cathode Digit 1
2	Anode Segment g	Cathode Digit 2
3	Anode Segment e	Cathode Digit 3
4	Cathode Digit 1	Cathode Digit 4
5	Cathode Digit 2	Anode Segment dp
6	Cathode Digit 3	Cathode Digit 5
7	Cathode Digit 4	Anode Segment c
8	Cathode Digit 5	Cathode Digit 6
9	Cathode Digit 6	Anode Segment e
10	Cathode Digit 7	Cathode Digit 7
11	Anode Segment dp	Anode Segment a
12	Anode Segment d	Cathode Digit 8
13	Anode Segment c	Anode Segment g
14	Anode Segment a	Cathode Digit 9
15	Anode Segment f	Anode Segment d
16		Cathode Digit 10
17		Anode Segment f
18		Cathode Digit 11
19		Anode Segment b
20		Cathode Digit 12
21		Cathode Digit 13
22		Cathode Digit 14
23		Cathode Digit 15

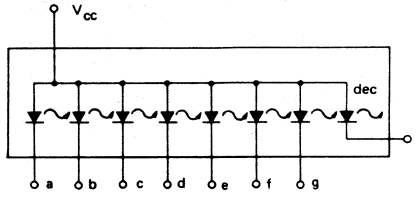
EA100



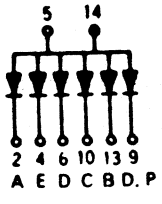
PIN	FUNCTION
1	CATHODE-a
2	CATHODE-f
3	ANODE (3)
4	NO PIN
5	NO PIN
6	CATHODE-dp
7	CATHODE-e
8	CATHODE-d
9	NO CONN. (5)
10	CATHODE-c
11	CATHODE-g
12	NO PIN
13	CATHODE-b
14	ANODE (3)

EA101

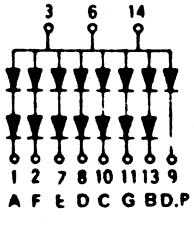




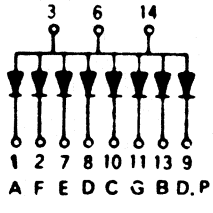
EA102



EA103

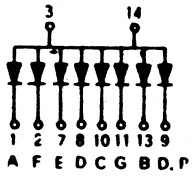


EA104

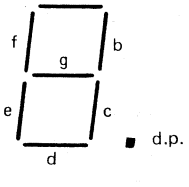


EA104a - REVERSE DIODE DIRECTION.

EA105



EA106



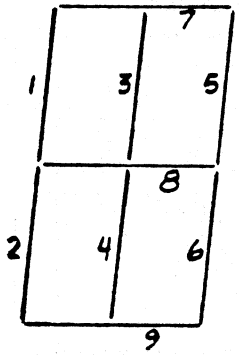
Pin	Connection
1	Anode e
2	Anode d.p.
3	Cathode Digit 1
4	— —
5	Cathode Digit 2
6	Cathode Digit 3
7	— —
8	Cathode Digit 4
9	Anode c
10	Anode d
11	Anode a
12	Anode f
13	Cathode Digit 4
14	— —
15	Cathode Digit 3
16	Cathode Digit 2
17	— —
18	Cathode Digit 1
19	Anode g
20	Anode b

EA106

PIN NO.	ELECTRICAL CONNECTION
1	Digit 1 Cathode
2	Digit 2 Cathode
3	Segment E Anode
4	Segment C Anode
5	Segment D Anode
6	Segment DP Anode
7	Digit 3 Cathode
8	Segment G Anode
9	Segment F Anode
10	Segment B Anode
11	Segment A Anode

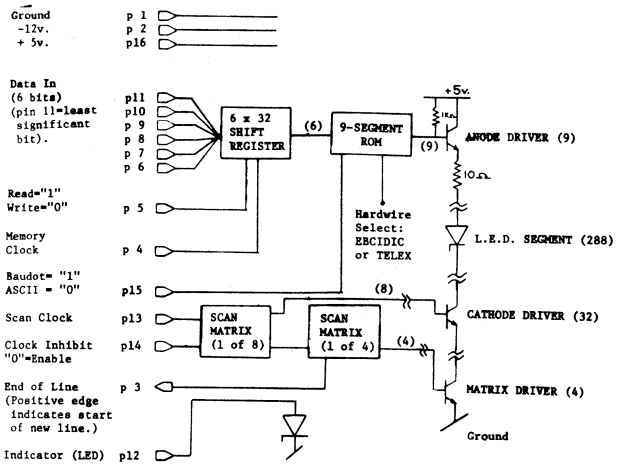
EA106a

EA107

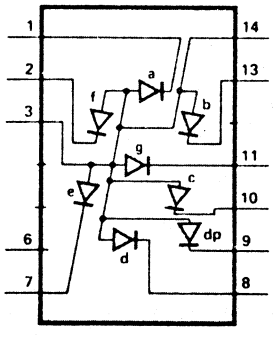


Pin 1	Cathode:	Character	A
2	Anode:	Segment	2
3	"	"	8
4	"	"	9
5	"	"	6
6	"	"	4
7	Cathode:	Character	C
8	Anode:	Segment	5
9	"	"	7
10	Cathode:	Character	B
11	Anode:	Segment	1
12	"	"	3

EA108

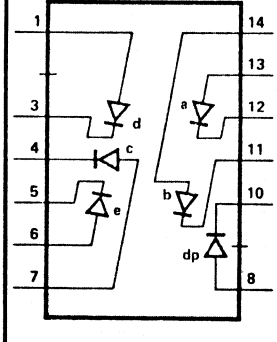


EA109



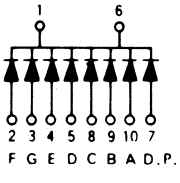
PIN	FUNCTION
1	CATHODE-a
2	CATHODE-f
3	ANODE (3)
4	NO PIN
5	NO PIN
6	NO CONN.(5)
7	CATHODE-e
8	CATHODE-d
9	CATHODE-dp
10	CATHODE-c
11	CATHODE-g
12	NO PIN
13	CATHODE-b
14	ANODE (3)

EA110

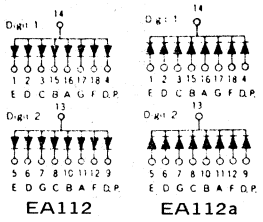


PIN	FUNCTION
1	ANODE-d
2	NO PIN
3	CATHODE-d
4	CATHODE-c
5	CATHODE-e
6	ANODE-e
7	ANODE-c
8	ANODE-dp
9	NO PIN
10	CATHODE-dp
11	CATHODE-b
12	CATHODE-a
13	ANODE-a
14	ANODE-b

EA111

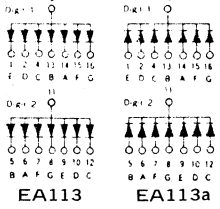


EA112



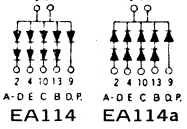
EA112 EA112a

EA113



EA113 EA113a

EA114

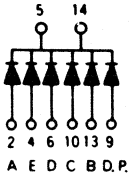


EA114 EA114a

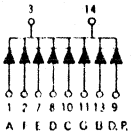
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EA115

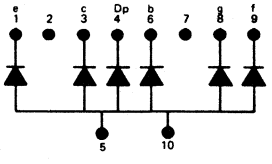


EA116



EA117

PIN 1 – CATHODE e
PIN 2 – NO CONNECTION
PIN 3 – CATHODE c
PIN 4 – CATHODE Decimal
PIN 5 – COMMON ANODE
PIN 6 – CATHODE b
PIN 7 – NO CONNECTION
PIN 8 – CATHODE g
PIN 9 – CATHODE f
PIN 10 – COMMON ANODE



EA118

PIN NO.	ELECTRICAL CONNECTION
1	Digit 1 Anode H
2	Digit 1 Cathode H
3	Digit 1 Anode J
4	Digit 1 Cathode J
5	Digit 1 Cathode G
6	Digit 1 Anode G
7	Digit 1 Anode D.P.
8	Digit 1 Cathode D.P.
9	Digit 1 Cathode C
10	Digit 1 Anode C
11	Digit 1 Cathode B
12	Digit 1 Anode B
13	Digit 2 Anode
14	Digit 3 Anode
15	Cathode G
16	Cathode F
17	Cathode E
18	Cathode D
19	Digit 4 Anode
20	Digit 5 Anode
21	Cathode D.P.
22	Cathode C
23	Cathode B
24	Cathode A

EA118

PIN NO.	ELECTRICAL CONNECTION
1	Anode G
2	Anode F
3	Anode E
4	Anode D
5	Anode A
6	Anode C
7	Anode B
8	NC
9	Anode D.P.
10	Light Sensor
11	Light Sensor
12	Cathode 1
13	Cathode 2
14	Cathode 4
15	Cathode 5
16	Cathode 3

EA118a

PIN NO.	ELECTRICAL CONNECTION
1	Cathode G
2	Cathode F
3	Cathode E
4	Cathode D
5	Cathode A
6	Cathode C
7	Cathode B
8	NC
9	Cathode D.P.
10	Light Sensor
11	Light Sensor
12	Anode 1
13	Anode 2
14	Anode 4
15	Anode 5
16	Anode 3

EA118b

EA119

PIN NUMBER	EA119	EA119a	EA119b	EA119c	EA119d
1	Cathode J Digit 1	Anode G Digit 1	Cathode G Digit 1	Anode G	Cathode E
2	Cathode C Digit 1	Anode E Digit 1	Cathode E Digit 1	Anode E	Common Anode Digit 1
3	Cathode D.P. Digit 1	Anode D Digit 1	Cathode D Digit 1	NC	NC
4	Cathode G Digit 2	Anode C Digit 1	Cathode C Digit 1	Common Cathode Digit 1	Cathode C
5	Cathode E Digit 2	Anode G Digit 2	Cathode G Digit 2	Anode D	Common Anode Digit 2
6	Cathode D Digit 2	Anode E Digit 2	Cathode E Digit 2	Common Cathode Digit 2	Cathode D
7	Cathode C Digit 2	Anode D Digit 2	Cathode D Digit 2	Anode DP	Cathode DP
8	Cathode D.P. Digit 2	Anode C Digit 2	Cathode C Digit 2	Anode C	Cathode G
9	Cathode B Digit 2	Common Cathode Digits 1 and 2	Common Anode Digits 1 and 2	Anode B	Cathode B
10	NC	Anode B Digit 2	Cathode B Digit 2	NC	NC
11	Cathode A Digit 2	Anode A Digit 2	Cathode A Digit 2	NC	NC
12	Cathode F Digit 2	Anode F Digit 2	Cathode F Digit 2	NC	NC
13	Cathode B Digit 1	Anode B Digit 1	Cathode B Digit 1	Anode A	Cathode A
14	Common Anode Digits 1 and 2	Anode A Digit 1	Cathode A Digit 1	NC	NC
15	Cathode H Digit 1	Anode F Digit 1	Cathode F Digit 1	Anode F	Cathode F
16	Cathode G Digit 1	NC	NC	NC	NC

EA120

PIN NUMBER	EA120	EA120a	EA120b	EA120c	EA120d
1	NC	Anode G	Cathode G	Anode E Digit 1	Cathode E Digit 1
2	Cathode J Digit 1	Common Cathode Digit 1	Common Anode Digit 1	NC	NC
3	NC	Anode E	Cathode E	Anode D Digit 1	Cathode D Digit 1
4	Cathode C Digit 1	NC	NC	Anode DP Digit 1	Cathode C Digit 1
5	Cathode D.P. Digit 1	NC	NC	Anode C Digit 1	Cathode D.P. Digit 1
6	Cathode G Digit 2	NC	NC	Anode G Digit 2	Cathode G Digit 2
7	Cathode E Digit 2	Anode D	Cathode D	Anode E Digit 2	Cathode E Digit 2
8	Cathode D Digit 2	Anode D.P.	Cathode D.P.	Anode D Digit 2	Cathode D Digit 2
9	Cathode C Digit 2	Anode C	Cathode C	Anode D.P. Digit 2	Cathode C Digit 2
10	Cathode D.P. Digit 2	Common Cathode Digit 2	Common Anode Digit 2	Anode C Digit 2	Cathode D.P. Digit 2
11	Common Anode Digits 1 and 2	Anode B	Cathode B	Common Cathode Digits 1 and 2	Common Anode Digit 1 and 2
12	Cathode B Digit 2	NC	NC	Anode B Digit 2	Cathode B Digit 2
13	Cathode A Digit 2	NC	NC	Anode A Digit 2	Cathode A Digit 2
14	Cathode F Digit 2	NC	NC	Anode F Digit 2	Cathode F Digit 2
15	Cathode B Digit 1	NC	NC	Anode B Digit 1	Cathode B Digit 1
16	NC	NC	NC	Anode A Digit 1	Cathode A Digit 1
17	Cathode H Digit 1	Anode A	Cathode A	NC	NC
18	NC	Anode F	Cathode F	Anode F Digit 1	Cathode F Digit 1
19	NC	NC	NC	NC	NC
20	Cathode G Digit 1	NC	NC	Anode G Digit 1	Cathode G Digit 1

EA121

PIN NUMBER	EA121	EA121a	EA121b	EA121c	EA121d
1	NC	Anode G	Cathode G	Anode E Digit 1	Cathode E Digit 1
2	Cathode J Digit 1	Common Cathode Digit 1	Common Anode Digit 1	NC	NC
3	NC	Anode E	Cathode E	Anode D Digit 1	Cathode D Digit 1
4	Cathode C Digit 1	NC	NC	Anode C Digit 1	Cathode C Digit 1
5	Common Anode Digit 1	NC	NC	Common Cathode Digit 1	Common Anode Digit 1
6	Cathode D.P. Digit 1	NC	NC	Anode D.P. Digit 1	Cathode D.P. Digit 1
7	NC	NC	NC	NC	NC
8	Cathode E Digit 2	NC	NC	Anode E Digit 2	Cathode E Digit 2
9	Cathode D Digit 2	Anode D	Cathode D	Anode D Digit 2	Cathode D Digit 2
10	Cathode C Digit 2	Common Cathode Digit 2	Common Anode Digit 2	Anode C Digit 2	Cathode C Digit 2
11	Common Anode Digit 2	Anode D.P.	Cathode D.P.	Common Cathode Digit 2	Common Anode Digit 2
12	Cathode D.P. Digit 2	Anode C	Cathode C	Anode D.P. Digit 2	Cathode D.P. Digit 2
13	Cathode B Digit 2	Anode B	Cathode B	Anode B Digit 2	Cathode B Digit 2
14	Cathode A Digit 2	NC	NC	Anode A Digit 2	Cathode A Digit 2
15	Cathode F Digit 2	NC	NC	Anode F Digit 2	Cathode F Digit 2
16	Cathode G Digit 2	NC	NC	Anode G Digit 2	Cathode G Digit 2
17	NC	NC	NC	NC	NC
18	Cathode G Digit 1	Anode A	Cathode A	Anode G Digit 1	Cathode G Digit 1
19	Cathode B Digit 1	NC	NC	Anode B Digit 1	Cathode B Digit 1
20	NC	NC	NC	Anode A Digit 1	Cathode A Digit 1
21	Cathode H Digit 1	NC	NC	NC	NC
22	NC	NC	NC	Anode F Digit 1	Cathode F Digit 1
23	NC	Anode F	Cathode F	NC	NC
24		NC	NC		

EA122

PIN NUMBER	EA122	EA122a	EA122b
1	NC	NC	NC
2	Cathode E	Anode E	Cathode E
3	Common Anode Digit 1	Common Cathode Digit 1	Common Anode Digit 1
4	Cathode J Digit 1	NC	NC
5	Cathode H Digit 1	NC	NC
6	Common Anode Digit 2	Common Cathode Digit 2	Common Anode Digit 2
7	Cathode D	Anode D	Cathode D
8	Cathode G	Anode G	Cathode G
9	NC	NC	NC
10	Common Anode Digit 3	Common Cathode Digit 3	Common Anode Digit 3
11	Cathode B	Anode B	Cathode B
12	Cathode A	Anode A	Cathode A
13	Cathode F	Anode F	Cathode F
14	Common Anode Digit 4	Common Cathode Digit 4	Common Anode Digit 4
15	Cathode D.P.	Anode D.P.	Cathode D.P.
16	Cathode C	Anode C	Cathode C

EA123

PIN NUMBER	EA123	EA123a	EA123b
1	Cathode A	Anode A	Cathode A
2	NC	NC	NC
3	Cathode D	Anode D	Cathode D
4	Common Anode Digit 1	Common Cathode Digit 1	Common Anode Digit 1
5	Cathode J Digit 1	NC	NC
6	Cathode H Digit 1	NC	NC
7	Common Anode Digit 2	Common Cathode Digit 2	Common Anode Digit 2
8	Cathode C	Anode C	Cathode C
9	NC	NC	NC
10	Common Anode Digit 3	Common Cathode Digit 3	Common Anode Digit 3
11	Cathode B	Anode B	Cathode B
12	Cathode F	Anode F	Cathode F
13	Cathode E	Anode E	Cathode E
14	Common Anode Digit 4	Common Cathode Digit 4	Common Anode Digit 4
15	Cathode D.P.	Anode D.P.	Cathode D.P.
16	Cathode G	Anode G	Cathode G

EA124

PIN NUMBER	EA124	EA124a	EA124b
1	NC	NC	NC
2	Cathode H Digit 1	NC	NC
3	Cathode J Digit 1	NC	NC
4	Common Anode Digit 1	Common Cathode Digit 1	Common Anode Digit 1
5	Cathode F	Anode F	Cathode F
6	Common Anode Digit 2	Common Cathode Digit 2	Common Anode Digit 2
7	Cathode C	Anode C	Cathode C
8	Cathode D.P.	Anode D.P.	Cathode D.P.
9	Cathode G	Anode G	Cathode G
10	Cathode E	Anode E	Cathode E
11	Common Anode Digit 3	Common Cathode Digit 3	Common Anode Digit 3
12	Cathode B	Anode B	Cathode B
13	Cathode A	Anode A	Cathode A
14	Common Anode Digit 4	Common Cathode Digit 4	Common Anode Digit 4
15	Cathode D	Anode D	Cathode D

EA125

EA125

PIN	FUNCTION
1	CATHODE C (NO. 1)
2	CATHODE D (NO. 1)
3	CATHODE B (NO. 1)
4	D. P. CATHODE (NO. 1)
5	CATHODE E (NO. 2)
6	CATHODE D (NO. 2)
7	CATHODE G (NO. 2)
8	CATHODE C (NO. 2)
9	D. P. CATHODE (NO. 2)
10	CATHODE B (NO. 2)
11	CATHODE A (NO. 2)
12	CATHODE F (NO. 2)
13	ANODE DIGIT (NO. 2)
14	ANODE D. P. (NO. 1)
15	CATHODE A (NO. 1)
16	ANODE NO. 1 A AND B
17	N. C.
18	ANODE NO. 1 C AND D

EA125a

PIN	FUNCTION
1	E CATHODE (NO. 1)
2	D CATHODE (NO. 1)
3	C CATHODE (NO. 1)
4	D. P. CATHODE (NO. 1)
5	E CATHODE (NO. 2)
6	D CATHODE (NO. 2)
7	G CATHODE (NO. 2)
8	C CATHODE (NO. 2)
9	D. P. CATHODE (NO. 2)
10	B CATHODE (NO. 2)
11	A CATHODE (NO. 2)
12	F CATHODE (NO. 2)
13	NO. 2 ANODE
14	NO. 1 ANODE
15	B CATHODE (NO. 1)
16	A CATHODE (NO. 1)
17	G CATHODE (NO. 1)
18	F CATHODE (NO. 1)

EA125b

PIN	FUNCTION
1	ANODE D #1
2	ANODE C #1
3	ANODE B #1
4	D.P. ANODE #1
5	ANODE E #2
6	ANODE D #2
7	ANODE G #2
8	ANODE C #2
9	D.P. ANODE #2
10	ANODE B #2
11	ANODE A #2
12	ANODE F #2
13	COMMON CATHODE #2
14	D.P. CATHODE #1
15	ANODE A #1
16	COMMON CATHODE A&B #1
17	N.C.
18	COMMON CATHODE C&D #1

EA125c

PIN	FUNCTION
1	E ANODE NO. 1
2	D ANODE NO. 1
3	C ANODE NO. 1
4	D.P. ANODE NO. 1
5	E ANODE NO. 2
6	D ANODE NO. 2
7	G ANODE NO. 2
8	C ANODE NO. 2
9	D.P. ANODE NO. 2
10	B ANODE NO. 2
11	A ANODE NO. 2
12	F ANODE NO. 2
13	COMMON CATHODE NO. 2
14	COMMON CATHODE NO. 1
15	B ANODE NO. 1
16	A ANODE NO. 1
17	G ANODE NO. 1
18	F ANODE NO. 1

EA125d

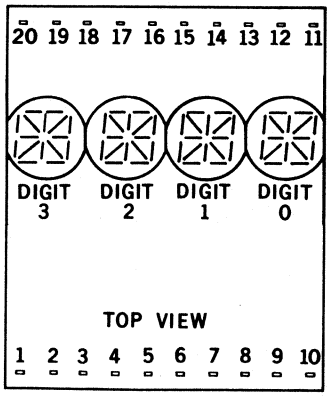
PIN	FUNCTION
1	C anode (No. 1)
2	D anode (No. 1)
3	B anode (No. 1)
4	DP anode (No. 1)
5	E anode (No. 2)
6	D anode (No. 2)
7	G anode (No. 2)
8	C anode (No. 2)
9	DP anode (No. 2)
10	B anode (No. 2)
11	A anode (No. 2)
12	F anode (No. 2)
13	Digit No. 2 cathode
14	Digit No. 1 cathode
15	A anode (No. 1)
16	No connection
17	No connection
18	No connection

EA126

Pin	Function	Pin	Function
1	Anode 1 (Left)	8	Anode 4
2	Anode 2	9	D Cathode
3	Anode 3	10	C Cathode
4	A Cathode	11	E Cathode
5	F Cathode	12	D.P. Cathode
6	B Cathode	13	Anode 5
7	G Cathode	14	Anode 6 (Right)

EA127

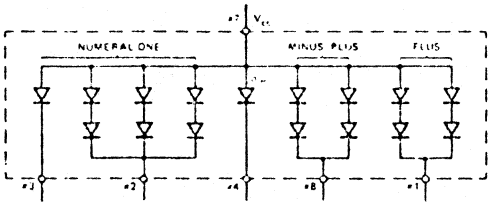
Pin		Function	Pin		Function
1.	D5	Data Input	11.	A1	Digit Select
2.	D4	Data Input	12.	Unused	
3.	DØ	Data Input	13.	Unused	
4.	D1	Data Input	14.	Unused	
5.	D2	Data Input	15.	Unused	
6.	D3	Data Input	16.	Unused	
7.	$\overline{CE}$	Chip Enable	17.	Unused	
8.	$\overline{W}$	Write	18.	V+	
9.	$\overline{CU}$	Cursor Input	19.	V–	
10.	AØ	Digit Select	20.	D6	Data Input



48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EA128



PIN	FUNCTION
1	Plus
2	Numeral One
3	Numeral One
4	DP
5	Open
6	Open
7	V_{cc}
8	Minus/Plus

EA129

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Cathode A	8	Cathode D
2	Cathode F	9	Cathode R.D.P.
3	Anode Digit & D.P.	10	Cathode C
4	Omitted	11	Cathode G
5	Omitted	12	Omitted
6	Cathode L.D.P.	13	Cathode B
7	Cathode E	14	Anode Digit & D.P.

EA129

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Anode H & G	8	Cathode G
2	Omitted	9	Cathode D.P.
3	Omitted	10	Cathode C
4	Cathode H, Anode J	11	Cathode B, Anode C
5	Omitted	12	Omitted
6	Omitted	13	Omitted
7	Cathode J	14	Anode B & D.P.

EA129b

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Omitted	8	Omitted
2	Cathode*	9	Cathode*
3	Anode F	10	Anode D.P.
4	Anode G	11	Anode C
5	Anode E	12	Anode B
6	Anode D	13	Anode A
7	Omitted	14	Omitted

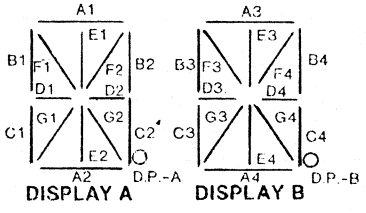
*Pins 2 & 9 are internally connected

EA129a

EA130

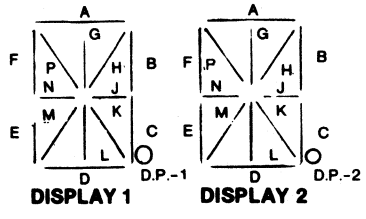
PIN NO.	FUNCTION
1	Anode D
2	NO CONNECTION
3	Anode G
4	Anode C
5	Cathode 2 Includes D.P-A
6	Anode D.P. – Display A
7	NO CONNECTION
8	Cathode 3
9	Anode D.P. – Display B
10	Cathode 4 Includes D.P-B
11	NO CONNECTION
12	Anode A
13	NO CONNECTION
14	Anode B
15	Cathode 1
16	NO CONNECTION
17	Anode E
18	Anode F

EA130



PIN NO.	FUNCTION
1	Anode E
2	Anode M
3	No Connection
4	Anode L
5	Anode K
6	Anode J
7	Anode D
8	Anode D.P
9	Anode C
10	Anode B
11	Cathode-Display 2
12	Anode A
13	Anode N
14	Anode H
15	Anode G
16	Cathode-Display 1
17	Anode P
18	Anode F

EA130a



EA132

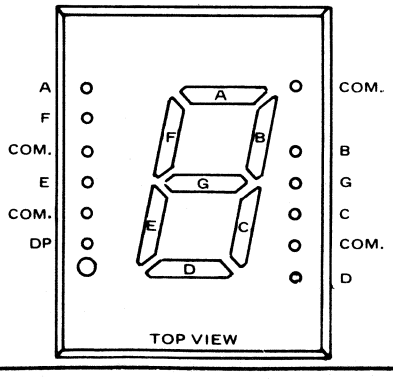
PIN	EA 132	EA132a
1	CATHODE C1	ANODE C1
2	CATHODE E1	ANODE E1
3	CATHODE D1	ANODE D1
4	ANODE 1	CATHODE 1
5	ANODE 2	CATHODE 2
6	CATHODE D2	ANODE D2
7	CATHODE E2	ANODE E2
8	CATHODE C2	ANODE C2
9	CATHODE G2	ANODE G2
10	CATHODE A2	ANODE A2
11	CATHODE F2	ANODE F2
12	CATHODE B2	ANODE B2
13	CATHODE B1	ANODE B1
14	CATHODE F1	ANODE F1
15	CATHODE A1	ANODE A1
16	CATHODE G1	ANODE G1

EA133

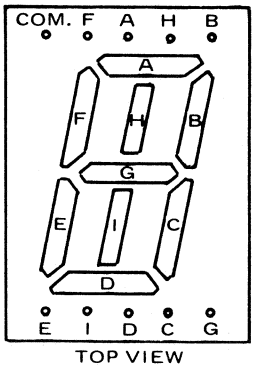
EA133 RED SURFACE
EA133a BLACK SURFACE

PIN	FUNCTION
1	CATHODE
2	ANODE f
3	NC
4	ANODE h
5	NC
6	ANODE i
7	NC
8	ANODE e
9	CATHODE
10	CATHODE
11	ANODE d
12	NC
13	ANODE c
14	ANODE g
15	ANODE b
16	NC
17	ANODE a
18	CATHODE

EA135



EA136

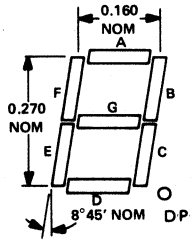


48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

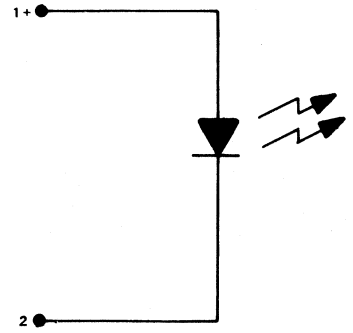
EA138

CHARACTER FONT



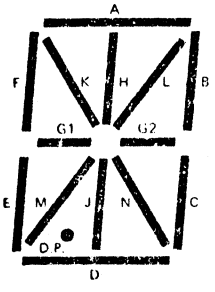
TAB	FUNCTION	TAB	FUNCTION
1	DIGIT 1 CATHODES	11	DIGIT II CATHODES
2	DIGIT 4 CATHODES	12	SEGMENT A ANODES
3	DIGIT 3 CATHODES	13	SEGMENT B ANODES
4	DIGIT 2 CATHODES	14	SEGMENT C ANODES
5	DIGIT 5 CATHODES	15	SEGMENT D ANODES
6	DIGIT 6 CATHODES	16	DECIMAL POINT ANODES
7	DIGIT 7 CATHODES	17	SEGMENT G ANODES
8	DIGIT 8 CATHODES	18	SEGMENT F ANODES
9	DIGIT 9 CATHODES	19	SEGMENT E ANODES
10	DIGIT 10 CATHODES	20	DIGIT 12 CATHODES

EA139

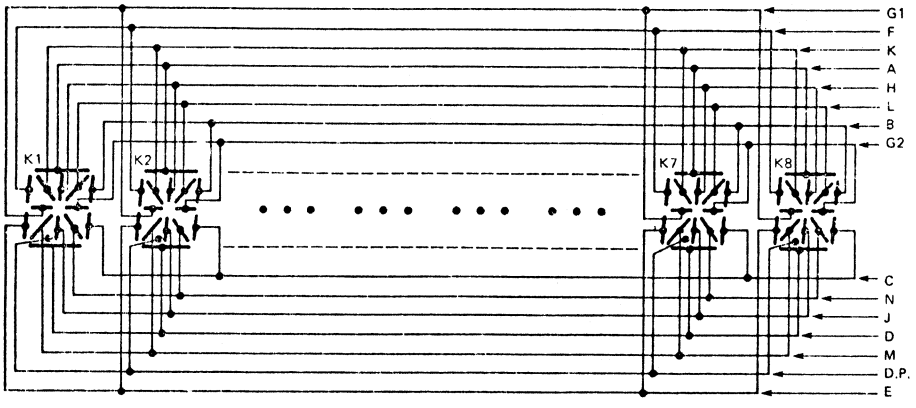


REQUIRES EXTERNAL SERIES RESISTOR

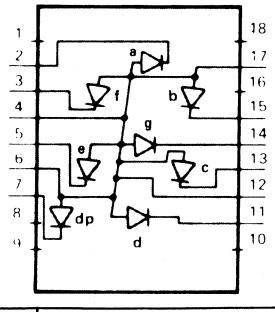
EA141



REFERENCE DESIGNATOR	
PIN NO.	DESCRIPTION
1	K1 CATHODE
2	K2 CATHODE
3	K3 CATHODE
4	(D) ANODE
5	K4 CATHODE
6	K5 CATHODE
7	(J) ANODE
8	K6 CATHODE
9	(DP) ANODE
10	K7 CATHODE
11	(M) ANODE
12	K8 CATHODE
13	NO PIN
14	(N) ANODE
15	(C) ANODE
16	(E) ANODE
17	(G2) ANODE
18	(G1) ANODE
19	(B) ANODE
20	(L) ANODE
21	(F) ANODE
22	(K) ANODE
23	(H) ANODE
24	(A) ANODE

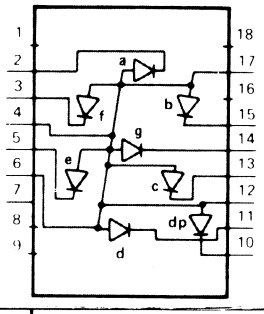


EA142



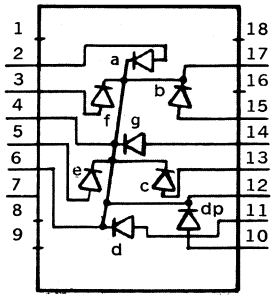
PIN	FUNCTION
1	NO PIN
2	CATHODE a
3	CATHODE f
4	ANODE *
5	CATHODE e
6	ANODE *
7	CATHODE dp
8	NO PIN
9	NO PIN
10	NO PIN
11	CATHODE d
12	ANODE *
13	CATHODE c
14	CATHODE g
15	CATHODE b
16	NO PIN
17	ANODE *
18	NO PIN
*	REDUNDANT ANODES

EA143



PIN	FUNCTION
1	NO PIN
2	CATHODE a
3	CATHODE f
4	ANODE *
5	CATHODE e
6	ANODE *
7	NO CONN.
8	NO PIN
9	NO PIN
10	CATHODE dp
11	CATHODE d
12	ANODE *
13	CATHODE c
14	CATHODE g
15	CATHODE b
16	NO PIN
17	ANODE *
18	NO PIN
*	REDUNDANT ANODES

EA144



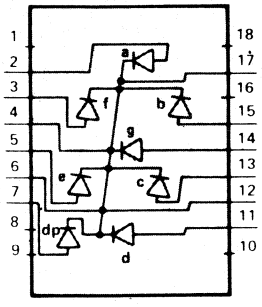
* REDUNDANT CATHODES

PIN	FUNCTION
1	NO PIN
2	ANODE a
3	ANODE f
4	CATHODE*
5	ANODE e
6	CATHODE*
7	NO CONNEC.
8	NO PIN
9	NO PIN
10	ANODE dp
11	ANODE d
12	CATHODE*
13	ANODE c
14	ANODE g
15	ANODE b
16	NO PIN
17	CATHODE*
18	NO PIN

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

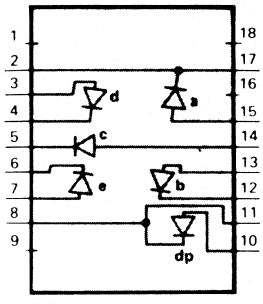
EA145



* REDUNDANT CATHODES

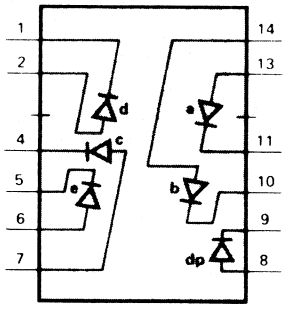
PIN	FUNCTION
1	NO PIN
2	ANODE a
3	ANODE f
4	CATHODE*
5	ANODE e
6	CATHODE*
7	ANODE dp
8	NO PIN
9	NO PIN
10	NO PIN
11	ANODE d
12	CATHODE*
13	ANODE c
14	ANODE g
15	ANODE b
16	NO PIN
17	CATHODE*
18	NO PIN

EA146



PIN	FUNCTION
1	NO PIN
2	CATHODE a
3	ANODE d
4	CATHODE d
5	CATHODE c
6	CATHODE e
7	ANODE e
8	CATHODE dp
9	NO PIN
10	ANODE dp
11	CATHODE dp
12	CATHODE b
13	ANODE b
14	ANODE c
15	ANODE a
16	NO PIN
17	CATHODE a
18	NO PIN

EA147

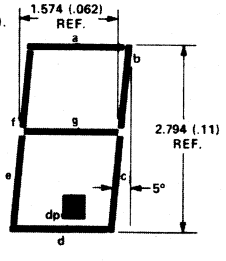


PIN	FUNCTION
1	CATHODE d
2	ANODE d
3	NO PIN
4	CATHODE c
5	CATHODE e
6	ANODE e
7	ANODE c
8	ANODE dp
9	CATHODE dp
10	CATHODE b
11	CATHODE a
12	NO PIN
13	ANODE a
14	ANODE b

EA149

DIMENSIONS IN MILLIMETERS AND (INCHES).

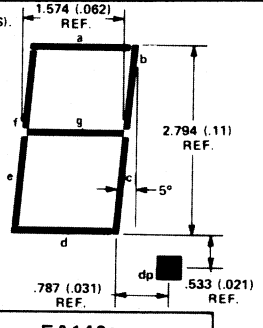
EA149
EA149a
EA149b
EA149c



Center Decimal Point Configuration.

DIMENSIONS IN MILLIMETERS AND (INCHES).

EA149d
EA149e
EA149f
EA149g



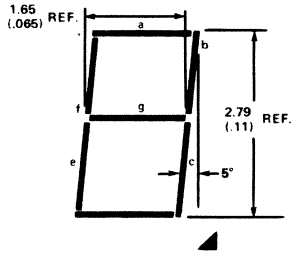
Right Decimal Point Configuration

PIN NO.	EA149,d FUNCTION	EA149a,e FUNCTION	EA149b,f FUNCTION	EA149c,g FUNCTION
1	SEE NOTE 1.	CATHODE 1	CATHODE 1	CATHODE 1
2	ANODE e	ANODE e	ANODE e	ANODE e
3	ANODE c	ANODE c	ANODE c	ANODE c
4	CATHODE 3	CATHODE 3	CATHODE 3	CATHODE 3
5	ANODE dp	ANODE dp	ANODE dp	ANODE dp
6	CATHODE 4	SEE NOTE 1.	CATHODE 4	ANODE d
7	ANODE g	ANODE g	ANODE g	CATHODE 5
8	ANODE d	ANODE d	ANODE d	ANODE g
9	ANODE f	ANODE f	ANODE f	CATHODE 4
10	CATHODE 2	CATHODE 2	CATHODE 2	ANODE f
11	ANODE b	ANODE b	ANODE b	(See Note 1)
12	ANODE a.	ANODE a	ANODE a	ANODE b
13	–	–	–	CATHODE 2
14	–	–	–	ANODE a

NOTE 1: LEAVE PIN UNCONNECTED

EA150

EA150
EA150a

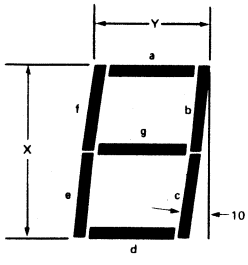


DIMENSIONS IN MILLIMETERS AND (INCHES).

PIN NUMBER	EA150 FUNCTION	EA150a FUNCTION
1	SEE NOTE 1.	CATHODE 1
2	ANODE e	ANODE e
3	ANODE d	ANODE d
4	CATHODE 2	CATHODE 2
5	ANODE c	ANODE c
6	ANODE dp	ANODE dp
7	CATHODE 3	CATHODE 3
8	ANODE b	ANODE b
9	ANODE g	ANODE g
10	ANODE a	ANODE a
11	ANODE f	ANODE f
12	SEE NOTE 1.	SEE NOTE 1.

NOTE 1: LEAVE PIN UNCONNECTED.

EA151



	X	Y
EA151	2.54 (.100)	1.42 (.056)
EA151a	2.54 (.100)	1.40 (.055)
EA151b	2.54 (.100)	1.42 (.056)
EA151c	2.92 (.115)	1.40 (.055)
EA151d	2.84 (.112)	1.40 (.055)

NOTES 1. ALL DIMENSIONS IN MILLIMETRES AND (INCHES)
2. TOLERANCES ON ALL DIMENSIONS ARE ·0.38 (.015) UNLESS OTHERWISE SPECIFIED

Pin No.	EA151 EA151a EA151d Function	EA151b Function	EA151c Function
1	Cathode-Digit 1	Anode-Segment a	Cathode-Digit 1
2	Cathode-Digit 2	Anode-Segment f	Cathode-Digit 2
3	Cathode-Digit 3	Anode-Segment b	Cathode-Digit 3
4	Anode-Segment c	Anode-Segment c	Cathode-Digit 4
5	Cathode-Digit 4	Anode-Segment d	Cathode-Digit 5
6	Anode-DP	Anode-Segment DP	Anode-Segment e
7	Cathode-Digit 5	Anode-Segment e	Cathode-Digit 6
8	Anode-Segment a	Anode-Segment g	Anode-Segment d
9	Cathode-Digit 6	Cathode-Digit 3	Cathode-Digit 7
10	Anode-Segment e	Cathode-Digit 2	Anode-Segment a
11	Cathode-Digit 7	Cathode-Digit 4	Cathode-Digit 8
12	Anode-Segment d	Cathode-Digit 1	Anode-Segment DP
13	Cathode-Digit 8	Cathode-Digit 5	Cathode-Digit 9
14	Anode-Segment g	Cathode-Digit 12	Anode-Segment c
15	Cathode-Digit 9	Cathode-Digit 6	Cathode-Digit 10
16	Anode-Segment b	Cathode-Digit 11	Anode-Segment g
17	Cathode-Digit 10	Cathode-Digit 7	Cathode-Digit 11
18	Anode-Segment f	Cathode-Digit 10	Anode-Segment b
19	Cathode-Digit 11	Cathode-Digit 9	Cathode-Digit 12
20	Cathode-Digit 12	Cathode-Digit 8	Anode-Segment f
21	Cathode-Digit 13		Cathode-Digit 13
22	Cathode-Digit 14		Cathode-Digit 14
23			Cathode-Digit 15
24			Cathode-Digit 16

EA152

EA152				EA152a				EA152b			
Pin	Function	Pin	Function	Pin	Function	Pin	Function	Pin	Function	Pin	Function
1	Anode G	12	Anode B	1	N/C	15	Anode C	1	N/C	19	5e
2	1c	13	3d	2	1c	16	4c	2	1c	20	5c
3	1d	14	3b	3	1e	17	4a	3	1e	21	5a
4	Anode F	15	Anode A	4	Anode G	18	Anode B	4	Anode F	22	Anode D
5	Anode E	16	2e	5	2b	19	3e	5	2b	23	4e
6	2b	17	2c	6	2d	20	3b	6	2d	24	4c
7	2d	18	2a	7	Anode D	21	3a	7	2e	25	N/C
8	Anode C	19	Anode D	8	Anode E	22	2e	8	Anode E	26	Anode C
9	3a	20	1e	9	3c	23	2c	9	3c	27	3d
10	3c	21	1b	10	3d	24	2a	10	3e	28	3b
11	3e	22	1a	11	Anode F	25	Anode A	11	Anode G	29	3a
				12	4b	26	1d	12	4a	30	Anode B
				13	4d	27	1b	13	4b	31	2c
				14	4e	28	1a	14	4d	32	2a
								15	N/C	33	Anode A
								16	5b	34	1d
								17	5d	35	1b
								18	N/C	36	1a

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

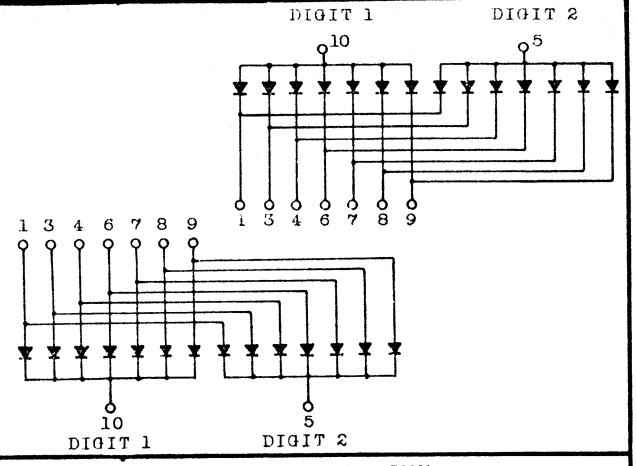
EA160

EA160

PIN No.		
1	G	ANODE
2	NO PIN	
3	A	ANODE
4	F	ANODE
5	DIGIT 2	COMMON CATHODE
6	D	ANODE
7	E	ANODE
8	C	ANODE
9	B	ANODE
10	DIGIT 1	COMMON CATHODE

EA160a

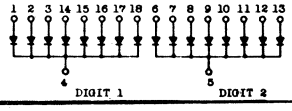
PIN No.		
1	G	CATHODE
2	NO PIN	
3	A	CATHODE
4	F	CATHODE
5	DIGIT 2	COMMON ANODE
6	D	CATHODE
7	E	CATHODE
8	C	CATHODE
9	B	CATHODE
10	DIGIT 1	COMMON ANODE



EA161

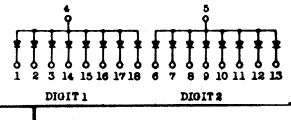
EA161

PIN No.	
1.	DIGIT 1 C ANODE
2.	DIGIT 1 E ANODE
3.	DIGIT 1 D ANODE
4.	DIGIT 1 COMMON CATHODE
5.	DIGIT 2 COMMON CATHODE
6.	DIGIT 2 D ANODE
7.	DIGIT 2 E ANODE
8.	DIGIT 2 C ANODE
9.	DIGIT 2 D_P ANODE
10.	DIGIT 2 G ANODE
11.	DIGIT 2 A ANODE
12.	DIGIT 2 F ANODE
13.	DIGIT 2 B ANODE
14.	DIGIT 1 B ANODE
15.	DIGIT 1 F ANODE
16.	DIGIT 1 A ANODE
17.	DIGIT 1 G ANODE
18.	DIGIT 1 D_P ANODE



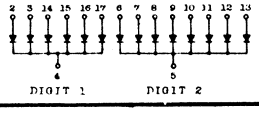
EA161a

PIN No.	
1.	DIGIT 1 C CATHODE
2.	DIGIT 1 E CATHODE
3.	DIGIT 1 D CATHODE
4.	DIGIT 1 COMMON ANODE
5.	DIGIT 2 COMMON ANODE
6.	DIGIT 2 D CATHODE
7.	DIGIT 2 E CATHODE
8.	DIGIT 2 C CATHODE
9.	DIGIT 2 D_P CATHODE
10.	DIGIT 2 G CATHODE
11.	DIGIT 2 A CATHODE
12.	DIGIT 2 F CATHODE
13.	DIGIT 2 B CATHODE
14.	DIGIT 1 B CATHODE
15.	DIGIT 1 F CATHODE
16.	DIGIT 1 A CATHODE
17.	DIGIT 1 G CATHODE
18.	DIGIT 1 D_P CATHODE



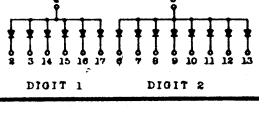
EA161b

PIN No.	
1.	NC
2.	DIGIT 1 D_P ANODE
3.	DIGIT 1 B ANODE
4.	DIGIT 1 COMMON CATHODE
5.	DIGIT 2 COMMON CATHODE
6.	DIGIT 2 D ANODE
7.	DIGIT 2 E ANODE
8.	DIGIT 2 C ANODE
9.	DIGIT 2 D_P ANODE
10.	DIGIT 2 G ANODE
11.	DIGIT 2 A ANODE
12.	DIGIT 2 F ANODE
13.	DIGIT 2 B ANODE
14.	DIGIT 1 A ANODE
15.	DIGIT 1 D_L ANODE
16.	DIGIT 1 C ANODE
17.	DIGIT 1 D_U ANODE
18.	NC



EA161c

PIN No.	
1.	NC
2.	DIGIT 1 D_P CATHODE
3.	DIGIT 1 B CATHODE
4.	DIGIT 1 COMMON ANODE
5.	DIGIT 2 COMMON ANODE
6.	DIGIT 2 D CATHODE
7.	DIGIT 2 E CATHODE
8.	DIGIT 2 C CATHODE
9.	DIGIT 2 D_P CATHODE
10.	DIGIT 2 G CATHODE
11.	DIGIT 2 A CATHODE
12.	DIGIT 2 F CATHODE
13.	DIGIT 2 B CATHODE
14.	DIGIT 1 A CATHODE
15.	DIGIT 1 D_L CATHODE
16.	DIGIT 1 C CATHODE
17.	DIGIT 1 D_U CATHODE
18.	NC



EA163

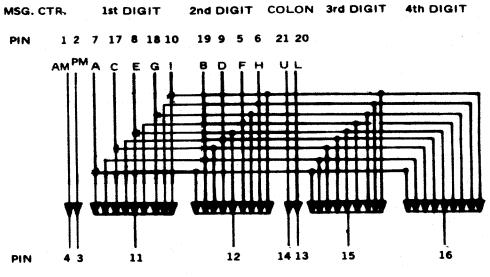
EA163

PIN	FUNCTION	PIN	FUNCTION
1	Input 1	5	Input 4
2	V_{DP}	6	Ground
3	V_{LED}	7	V_{CC}
4	Input 8	8	Input 2

EA163a

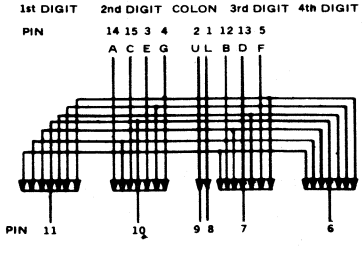
PIN	FUNCTION	PIN	FUNCTION
1	NC	5	NC
2	NC	6	Ground
3	Plus	7	Minus/Plus
4	NC	8	NC

EA164



PIN NO	ELECTRICAL CONNECTIONS
1	AM ANODE (UP MSG. CTR.)
2	PM ANODE (LOWER MSG. CTR.)
3	PM CATHODE
4	AM CATHODE
5	F ANODE
6	H ANODE
7	A ANODE
8	E ANODE
9	D ANODE
10	I ANODE
11	1st DIGIT CATHODE
12	2nd DIGIT CATHODE
13	LOWER COLON CATHODE
14	UP COLON CATHODE
15	3rd DIGIT CATHODE
16	4th DIGIT CATHODE
17	C ANODE
18	G ANODE
19	B ANODE
20	LOWER COLON ANODE
21	UP COLON ANODE

EA165



PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	COLON ANODE-LOWER	9	COLON CATHODE-UPPER
2	COLON ANODE-UPPER	10	DIGIT DRIVE 2
3	E CATHODE	11	DIGIT DRIVE 1
4	G CATHODE	12	B CATHODE
5	F CATHODE	13	D CATHODE
6	DIGIT DRIVE 4	14	A CATHODE
7	DIGIT DRIVE 3	15	C CATHODE
8	COLON CATHODE-LOWER		

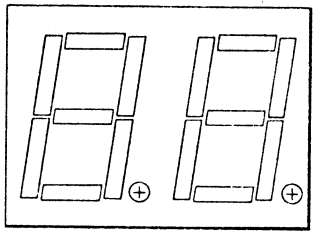
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EA166

EA166		EA166a		EA166b	
PIN 1	CATHODE E	PIN 1	ANODE E	PIN 1	CATHODE MINUS SIGN
PIN 2	CATHODE D	PIN 2	ANODE D	PIN 2	NO INTERNAL CONNECTION
PIN 3	ANODE: DIGIT & DECIMAL	PIN 3	CATHODE: DIGIT & DECIMAL	PIN 3	ANODE: PLUS/MINUS ONE & DECIMAL
PIN 4	CATHODE C	PIN 4	ANODE C	PIN 4	CATHODE C
PIN 5	CATHODE DECIMAL	PIN 5	ANODE DECIMAL	PIN 5	CATHODE DECIMAL
PIN 6	CATHODE B	PIN 6	ANODE B	PIN 6	CATHODE B
PIN 7	CATHODE A	PIN 7	ANODE A	PIN 7	NO INTERNAL CONNECTION
PIN 8	ANODE: DIGIT & DECIMAL	PIN 8	CATHODE: DIGIT & DECIMAL	PIN 8	ANODE: PLUS/MINUS ONE & DECIMAL
PIN 9	CATHODE F	PIN 9	ANODE F	PIN 9	CATHODE PLUS SIGN
PIN 10	CATHODE G	PIN 10	ANODE G	PIN 10	NO INTERNAL CONNECTION

EA169



EA169

PIN	ASSIGNMENT		
1	E Cath. Digit 1	10	B Cath. Digit 2
2	D Cath. Digit 1	11	A Cath. Digit 2
3	C Cath. Digit 1	12	F Cath. Digit 2
4	DP Cath. Digit 1	13	Digit 2 Anode
5	E Cath. Digit 2	14	Digit 1 Anode
6	D Cath. Digit 2	15	B Cath. Digit 1
7	G Cath. Digit 2	16	A Cath. Digit 1
8	C Cath. Digit 2	17	G Cath. Digit 1
9	DP Cath. Digit 2	18	F Cath. Digit 1

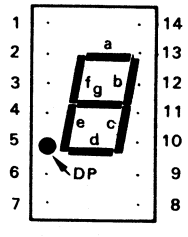
EA169a

PIN	ASSIGNMENT		
1	C Cath. Digit 1	10	B Cath. Digit 2
2	D Cath. Digit 1	11	A Cath. Digit 2
3	B Cath. Digit 1	12	F Cath. Digit 2
4	DP Cath. Digit 1	13	Digit 2 Anode
5	E Cath. Digit 2	14	Digit 1 Anode
6	D Cath. Digit 2	15	A Cath. Digit 1
7	G Cath. Digit 2	16	No Connection
8	C Cath. Digit 2	17	No Connection
9	DP Cath. Digit 2	18	No Connection

EA170

	FUNCTION	
Contact	EA170	EA170a
1	+5 V Logic Supply	NC
2	Decimal Point	Decimal Point
3	BDC Input A	Segment D
4	BCD Input B	Segment F
5	BCD Input C	Segment G
6	BCD Input D	Segment C
7	Ground	Segment E
8	Blanking Input/Ripple Blanking Output	Segment A
9	Ripple Blanking Input	Segment B
10	+15 V LED Supply	+15 LED Supply
PAD	Lamp Test	NC

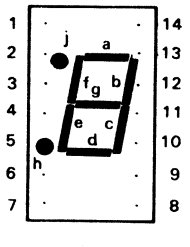
EA172



PIN NO.

1	Cathode a
2	Cathode f
3	NC
4	NC
5	NC
6	Cathode DP
7	Cathode e
8	Cathode d
9	NC
10	Cathode c
11	Cathode g
12	NC
13	Cathode b
14	Common Anode

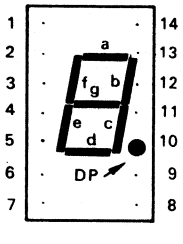
EA173



PIN NO.

1	Cathode a
2	Cathode f
3	Cathode j
4	NC
5	NC
6	Cathode h
7	Cathode e
8	Cathode d
9	NC
10	Cathode c
11	Cathode g
12	NC
13	Cathode b
14	Common Anode

EA174



PIN NO.

1	Cathode a
2	NC
3	Cathode f
4	Cathode g
5	NC
6	Cathode e
7	Common Anode
8	Cathode d
9	Cathode c
10	NC
11	NC
12	NC
13	Cathode DP
14	Cathode b

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

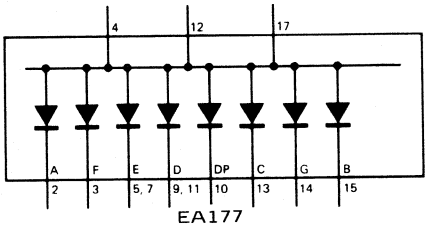
EA175

PIN NO.	ELECTRICAL CONNECTIONS				
	EA175	EA175a	EA175b	EA175c	EA175d
1	Cathode A	Cathode A	Anode C, D	Anode F	Anode C, D
2	Cathode F	Cathode F	No pin	Anode G	No Pin
3	Common anode	Common anode	Anode C, D	No pin	Anode C, D
4	No pin	No pin	No pin	Common cathode	No Pin
5	No pin	No pin	No pin	No pin	No Pin
6	N.C.	Cathode D.P.	No pin	Anode E	NC
7	Cathode E	Cathode E	Cathode D	Anode D	Cathode D
8	Cathode D	Cathode D	Cathode C	Anode C	Cathode C
9	Cathode D.P.	N.C.	N.C.	Anode D.P.	Cathode DP
10	Cathode C	Cathode C	Cathode B	No pin	Cathode B
11	Cathode G	Cathode G	Cathode A	No pin	Cathode A
12	No pin	No pin	No pin	Common cathode	No Pin
13	Cathode B	Cathode B	No pin	Anode B	No Pin
14	Common anode	Common anode	Anode A, B	Anode A	Anode A, B, & DP

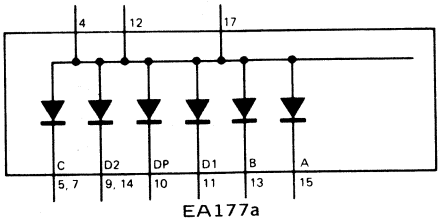
EA176

PIN NO.	EA176	EA176a
1	Cathode a	Anode a
2	Cathode f	Anode f
3	Common Anode	common Cathode
4	–	–
5	–	–
6	–	–
7	Cathode e	Anode e
8	Cathode d	Anode d
9	Cathode dp	Anode dp
10	Cathode c	Anode c
11	Cathode g	Anode g
12	–	–
13	Cathod b	Anode b
14	Common Anode	Common Cathode

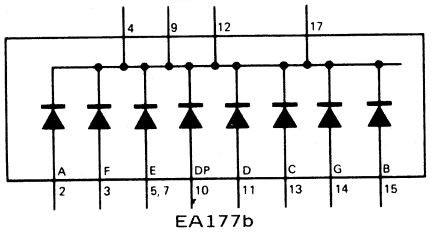
EA177



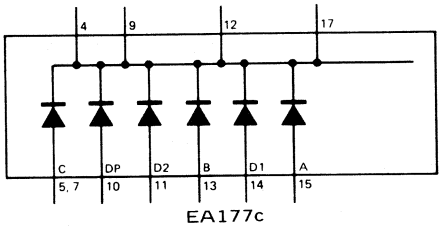
EA177



EA177a

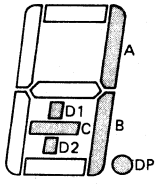


EA177b

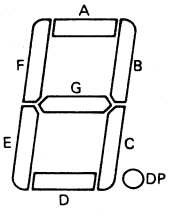


EA177c

EA177 AND EA177b



EA177a AND EA177c

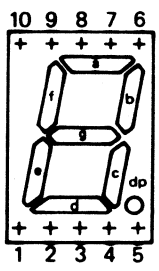


PIN #	EA177	EA177a	EA177b	EA177c
1	No Connection	No Connection	No Connection	No Connection
2	A Cathode	No Connection	A Anode	No Connection
3	F Cathode	No Connection	F Anode	No Connection
4	Common Anode	Common Anode	Common Cathode	Common Cathode
5	E Cathode	C Cathode	E Anode	C Anode
6	–	–	–	–
7	E Cathode	C Cathode	E Anode	C Anode
8	–	–	–	–
9	D Cathode	D2 Cathode	Common Cathode	Common Cathode
10	DP Cathode	DP Cathode	DP Anode	DP Anode
11	D Cathode	D1 Cathode	D Anode	D2 Anode
12	Common Anode	Common Anode	Common Cathode	Common Cathode
13	C Cathode	B Cathode	C Anode	B Anode
14	G Cathode	D2 Cathode	G Anode	D1 Anode
15	B Cathode	A Cathode	B Anode	A Anode
16	–	–	–	–
17	Common Anode	Common Anode	Common Cathode	Common Cathode
18	–	–	–	–

48. SCHEMATIC DRAWINGS

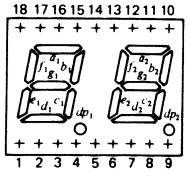
IN DRAWING NUMBER SEQUENCE

EA178



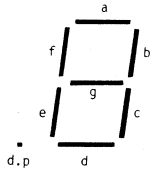
PIN NO.	EA178	EA178a
1	Cathode e	Anode e
2	Cathode d	Anode d
3	Common Anode	Common Cathode
4	Cathode c	Anode c
5	Cathode dp	Anode dp
6	Cathode b	Anode b
7	Cathode a	Anode a
8	Common Anode	Common Cathode
9	Cathode f	Anode f
10	Cathode g	Anode g

EA179



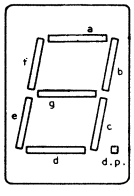
PIN NO	EA179	EA179a
1	Cathode e_1	Anode e_1
2	Cathode d_1	Anode d_1
3	Cathode c_1	Anode c_1
4	Cathode dp_1	Anode dp_1
5	Cathode e_2	Anode e_2
6	Cathode d_2	Anode d_2
7	Cathode g_2	Anode g_2
8	Cathode c_2	Anode c_2
9	Cathode dp_2	Anode dp_2
10	Cathode b_2	Anode b_2
11	Cathode a_2	Anode a_2
12	Cathode f_2	Anode f_2
13	Common Anode	Common Cathode
14	Common Anode	Common Cathode
15	Cathode b_1	Anode b_1
16	Cathode a_1	Anode a_1
17	Cathode g_1	Anode g_1
18	Cathode f_1	Anode f_1

EA180



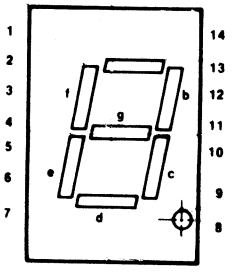
Pin	Connection	
1	Anode	e
2	Anode	d.p.
3	Cathode	Digit 1
4	N/C	
5	Cathode	Digit 2
6	Cathode	Digit 3
7	N/C	
8	Cathode	Digit 4
9	Anode	c & ½ digit lower bar
10	Anode	d & ± vertical bar
11	Anode	a
12	Anode	f
13	Cathode	Digit 4
14	Cathode	½ digit
15	Cathode	Digit 3
16	Cathode	Digit 2
17	Cathode	±
18	Cathode	Digit 1
19	Anode	g & ± horizontal bar
20	Anode	b & ½ digit upper bar

EA181



PIN	CONNECTIONS
1	Cathode a
2	Cathode f
3	Common anode
4	Cathode d.p.
5	No connection
6	No connection
7	Cathode e
8	Cathode d
9	Common anode
10	Cathode c
11	Cathode g
12	No connection
13	Cathode b
14	Common anode

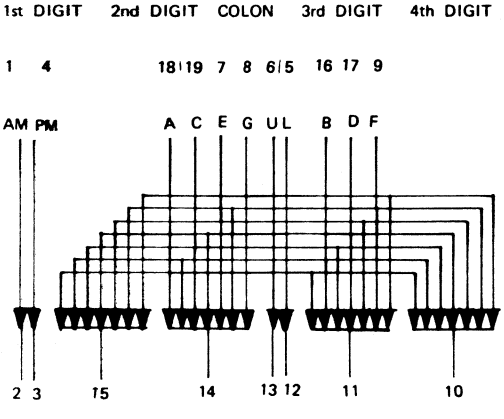
EA182



PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
1	Anode a	4	N.C.	7	Anode e	11	Anode g
2	Anode f	5	N.C.	8	Anode d	12	N.C.
3	Cathode	6	N.C.	9	Anode d.p.	13	Anode b
				10	Anode c	14	Cathode

EA183

PIN	ASSIGNMENT	PIN	ASSIGNMENT
1	AM ANODE	11	3rd DIGIT CATHODE
2	AM CATHODE	12	COLON CATHODE-LOWER
3	PM CATHODE	13	COLON CATHODE-UPPER
4	PM ANODE	14	2nd DIGIT CATHODE
5	COLON ANODE-LOWER	15	1st DIGIT CATHODE
6	COLON ANODE-UPPER	16	B ANODE
7	E ANODE	17	D ANODE
8	G ANODE	18	A ANODE
9	F ANODE	19	C ANODE
10	4th DIGIT CATHODE		



EA185

Pin	Function
1	Cathode D1
2	Anode E
3	Anode D
4	Cathode D2
5	Anode C
6	Anode DP
7	Cathode D3
8	Anode B
9	Anode G
10	Anode A
11	Anode F
12	No Pin

EA186

Pin	Function
1	Anode 1
2	DP Cathode 1
3	A Cathode
4	F Cathode
5	B Cathode
6	D Cathode
7	C Cathode
8	E Cathode
9	G Cathode
10	Anode 2
11	DP Cathode 2

EA187

EA187		EA187a	
Pin	Function	Pin	Function
1	Cathode 1	1	Anode 1
2	DP Anode 1	2	DP Cathode 1
3	A Anode	3	A Cathode
4	F Anode	4	F Cathode
5	B Anode	5	B Cathode
6	D Anode	6	D Cathode
7	Cathode 2	7	Anode 2
8	DP Anode 2	8	DP Cathode 2
9	C Anode	9	C Cathode
10	E Anode	10	E Cathode
11	G Anode	11	G Cathode
12	Cathode 3	12	Anode 3
13	DP Anode 3	13	DP Cathode 3

EA188

Pin	Function		
1	Anode 1	8	DP Cathode 2
2	DP Cathode 1	9	Anode 3
3	A Cathode	10	DP Cathode 3
4	F Cathode	11	C Cathode
5	B Cathode	12	E Cathode
6	D Cathode	13	G Cathode
7	Anode 2	14	Anode 4
		15	DP Cathode 4

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EA189

Pin	Function	Pin	Function
1	F Anode	9	Digit 4 Cathode
2	H Anode	10	Not Used
3	D Anode	11	A Anode
4	E Anode	12	G Anode
5	D.P. Anode	13	B Anode
6	Digit 1 Cathode	14	C Anode
7	Digit 2 Cathode	15	J Anode
8	Digit 3 Cathode		

EA190

TAB	FUNCTION
1	PM INDICATOR CATHODE
2	PM INDICATOR ANODE
3	D-SEGMENT ANODES
4	C-SEGMENT ANODES
5	B-SEGMENT ANODES
6	A-SEGMENT ANODES
7	E-SEGMENT ANODES
8	F-SEGMENT ANODES
9	G-SEGMENT ANODES
10	DIGIT 1 & ALARM INDICATOR CATHODES
11	DIGIT 2 CATHODES
12	COLON SEGMENT H ANODE
13	COLON SEGMENT J ANODE
14	COLON SEGMENT N & DIGIT 4 CATHODE
15	ALARM INDICATOR ANODE
16	COLON SEGMENT J & DIGIT 3 CATHODE

EA191

PIN	FUNCTION
1	COMMON ANODE
2	CATHODE AM/PM INDICATOR
3	CATHODE DIGIT 4 SEG B
4	CATHODE DIGIT 4 SEG C
5	CATHODE DIGIT 3 SEG A
6	CATHODE DIGIT 3 SEG F
7	CATHODE DIGIT 3 SEG G
8	CATHODE DIGIT 3 SEG E
9	CATHODE DIGIT 3 SEG D
10	CATHODE DIGIT 3 SEG C
11	CATHODE DIGIT 3 SEG B
12	CATHODE ALARM INDICATOR
13	CATHODE COLON 1
14	CATHODE COLON 2

PIN	FUNCTION
15	CATHODE DIGIT 2 SEG F
16	CATHODE DIGIT 2 SEG E
17	CATHODE DIGIT 2 SEG D
18	CATHODE DIGIT 2 SEG C
19	CATHODE DIGIT 2 SEG G
20	CATHODE DIGIT 2 SEG B
21	CATHODE DIGIT 2 SEG A
22	CATHODE DIGIT 1 SEG F
23	CATHODE DIGIT 1 SEG E
24	CATHODE DIGIT 1 SEG D
25	CATHODE DIGIT 1 SEG C
26	CATHODE DIGIT 1 SEG G
27	CATHODE DIGIT 1 SEG B
28	CATHODE DIGIT 1 SEG A

EA192

Pin	Function	Pin	Function
1	Cathode 1 (left)	8	Cathode 4
2	Cathode 2	9	D Anode
3	Cathode 3	10	C Anode
4	A Anode	11	E Anode
5	F Anode	12	D.P. Anode
6	B Anode	13	Cathode 5
7	G Anode	14	Cathode 6 (right)

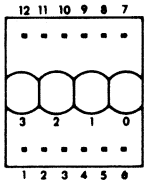
EA193

EA193		EA193a		EA193b	
Pin	Function	Pin	Function	Pin	Function
1	Cathode -a	1	Cathode -a	1	Anode -a
2	Cathode -f	2	Cathode -f	2	Anode -f
3	Anode	3	Anode	3	Cathode
4	No Pin	4	No Pin	4	No Pin
5	No Pin	5	No Pin	5	No Pin
6	Cathode -d.p.	6	No Conn.	6	No Conn.
7	Cathode -e	7	Cathode -e	7	Anode -e
8	Cathode -d	8	Cathode -d	8	Anode -d
9	No Conn.	9	Cathode -d.p.	9	Anode -d.p.
10	Cathode -c	10	Cathode -c	10	Anode -c
11	Cathode -g	11	Cathode -g	11	Anode -g
12	No Pin	12	No Pin	12	No Pin
13	Cathode -b	13	Cathode -b	13	Anode -b
14	Anode	14	Anode	14	Cathode

EA194

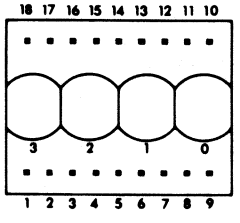
Pin	Function	Pin	Function
1	Cathode -d	8	Anode -d.p.
2	Anode -d	9	Cathode -d.p.
3	No Pin	10	Cathode -b
4	Cathode -c	11	Cathode -a
5	Cathode -e	12	No Pin
6	Anode -e	13	Anode -a
7	Anode -c	14	Anode -b

EA195



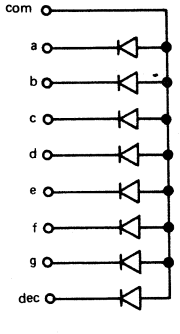
Pin	Function	Pin	Function
1	Gnd	7	D5 Data Input
2	DØ Data Input	8	D4 Data Input
3	D1 Data Input	9	$\overline{WR}$ Write
4	D2 Data Input	10	A1 Digit Select
5	D3 Data Input	11	AØ Digit Select
6	D6 Data Input	12	V_{CC}

EA196

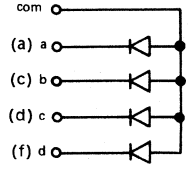


Pin	Function	Pin	Function
1	$\overline{CE2}$ Chip Enable	10	Gnd
2	$\overline{CE3}$ Chip Enable	11	DØ Data Input
3	$\overline{CLR}$ Clear	12	D1 Data Input
4	CUE Cursor Enable	13	D2 Data Input
5	$\overline{CU}$ Cursor Select	14	D3 Data Input
6	$\overline{WR}$ Write	15	D6 Data Input
7	A1 Digit Select	16	D5 Data Input
8	AØ Digit Select	17	D4 Data Input
9	V_{CC}	18	CE1 Chip Enable

EA197

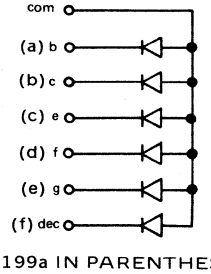


EA198



EA198a IN PARENTHESES

EA199

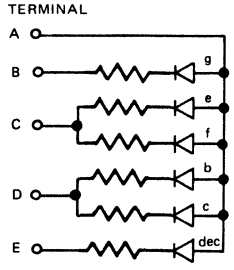


EA199a IN PARENTHESES

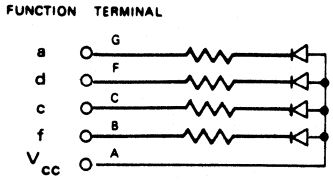
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

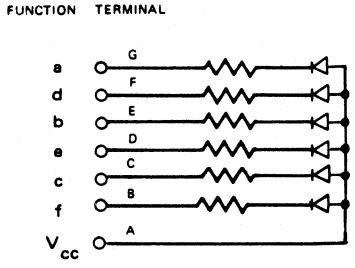
EA200



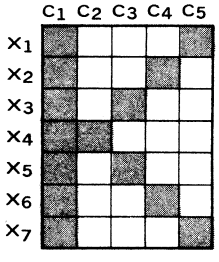
EA201

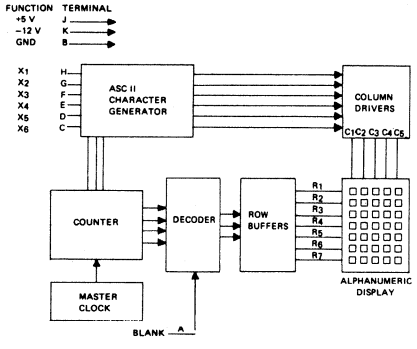


EA202

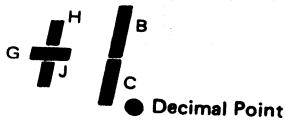


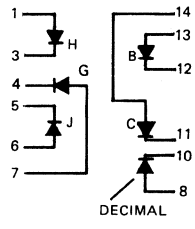
EA203





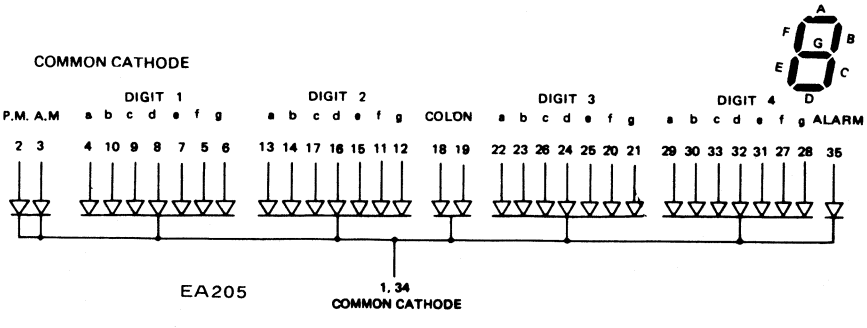
EA204

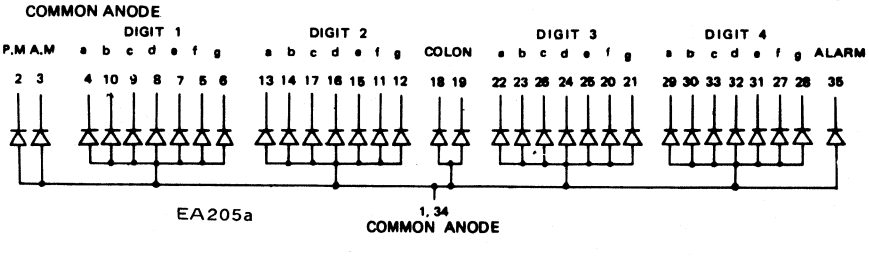




pin 1 — anode H
pin 2 — omitted
pin 3 — cathode H
pin 4 — cathode G
pin 5 — cathode J
pin 6 — anode J
pin 7 — anode G
pin 8 — anode Decimal
pin 9 — omitted
pin 10 — cathode Decimal
pin 11 — cathode C
pin 12 — cathode B
pin 13 — anode B
pin 14 — anode C

EA205

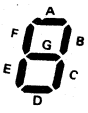


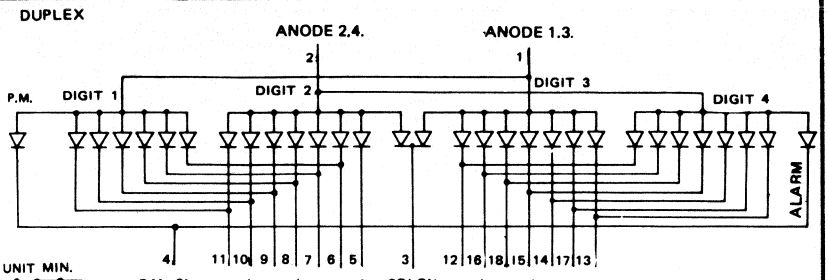


48. SCHEMATIC DRAWINGS

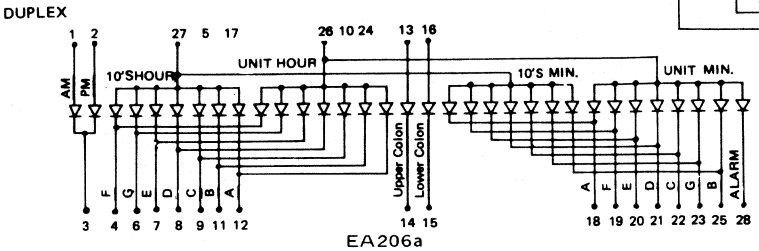
IN DRAWING NUMBER SEQUENCE

EA206



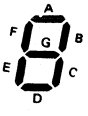


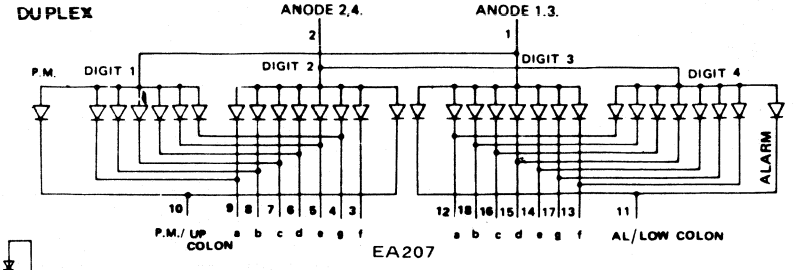
EA206



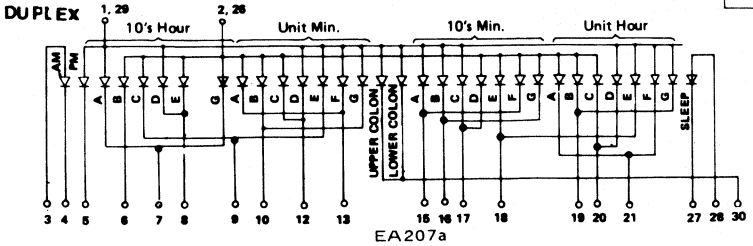
EA206a

EA207



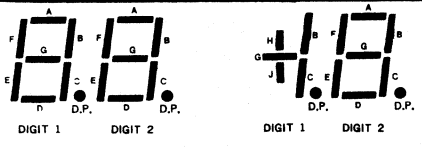


EA207



EA207a

EA208



EA208/EA208b

COMMON ANODE COMMON CATHODE *

Pin No.	Electrical Connection
1	Common Anode Digit 1 & 2
2	Cathode E Digit 1
3	D 1
4	C 1
5	D.P 1
6	E 2
7	D 2
8	C 2
9	Cathode D.P Digit 2
10	Common Anode Digits 1 & 2
11	Cathode B Digit 2
12	A 2
13	F 2
14	G 2
15	B 1
16	A 1
17	F 1
18	Cathode G Digit 1

EA208a/EA208c

COMMON ANODE COMMON CATHODE **

Pin No.	Electrical Connection
1	Common Anode Digit 1 & 2
2	Cathode J Digit 1
3	N.C.
4	Cathode C Digit 1
5	D.P. 1
6	E 2
7	D 2
8	C 2
9	Cathode D.P. Digit 2
10	Common Anode Digits 1 & 2
11	Cathode B Digit 2
12	A 2
13	F 2
14	G 2
15	Cathode B Digit 1
16	N.C.
17	Cathode H Digit 1
18	Cathode G Digit 1

* ANODE/CATHODE CONNECTIONS/INTERCHANGED: EA208b

** ANODE/CATHODE CONNECTIONS/INTERCHANGED: EA208c

EA212

EA212
COMMON ANODE

PIN NO.	FUNCTION
1	Common Anode, Digits 1 + 2
2	Cathode J, Digit 1
3	No Connection
4	Cathode C, Digit 1
5	Cathode D.P., Digit 1
6	Cathode E, Digit 2
7	Cathode D, Digit 2
8	Cathode C, Digit 2
9	Cathode D.P., Digit 2
10	Common Anode, Digits 1 + 2
11	Cathode B, Digit 2
12	Cathode A, Digit 2
13	Cathode F, Digit 2
14	Cathode G, Digit 2
15	Cathode B, Digit 1
16	No Connection
17	Cathode H, Digit 1
18	Cathode G, Digit 1

EA212a
COMMON CATHODE

PIN NO.	FUNCTION
1	Common Cathode, Digits 1-2
2	Anode E, Digit 1
3	Anode D, Digit 1
4	Anode C, Digit 1
5	Anode D.P., Digit 1
6	Anode E, Digit 2
7	Anode D, Digit 2
8	Anode C, Digit 2
9	Anode D.P., Digit 2
10	Common Cathode, Digit 1 - 2
11	Anode B, Digit 2
12	Anode A, Digit 2
13	Anode F, Digit 2
14	Anode G, Digit 2
15	Anode B, Digit 1
16	Anode A, Digit 1
17	Anode F, Digit 1
18	Anode G, Digit 1

EA212b
COMMON ANODE

PIN NO.	FUNCTION
1	Common Anode, Digits 1 + 2
2	Cathode E, Digit 1
3	Cathode D, Digit 1
4	Cathode C, Digit 1
5	Cathode D.P., Digit 1
6	Cathode E, Digit 2
7	Cathode D, Digit 2
8	Cathode C, Digit 2
9	Cathode D.P., Digit 2
10	Common Anode, Digits 1 + 2
11	Cathode B, Digit 2
12	Cathode A, Digit 2
13	Cathode F, Digit 2
14	Cathode G, Digit 2
15	Cathode B, Digit 1
16	Cathode A, Digit 1
17	Cathode F, Digit 1
18	Cathode G, Digit 1

EA212c
COMMON CATHODE

PIN NO.	FUNCTION
1	Common Cathode, Digits 1 + 2
2	Anode J, Digit 1
3	No Connection
4	Anode C, Digit 1
5	Anode D.P., Digit 1
6	Anode E, Digit 2
7	Anode D, Digit 2
8	Anode C, Digit 2
9	Anode D.P., Digit 2
10	Common Cathode, Digit 1 - 2
11	Anode B, Digit 2
12	Anode A, Digit 2
13	Anode F, Digit 2
14	Anode G, Digit 2
15	Anode B, Digit 1
16	No Connection
17	Anode H, Digit 1
18	Anode G, Digit 1

EA213

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Cathode A	14	Anode
2	Cathode F	13	Cathode B
3	Anode	12	Omitted
4	Omitted	11	Cathode G
5	Omitted	10	Cathode C
6	Anode	9	Cathode D.P.
7	Cathode E	8	Cathode D

Pins, 3, 6 & 14 internally connected

EA213

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Cathode H, J	14	Cathode G
2	Omitted	13	Cathode B
3	Omitted	12	Omitted
4	Omitted	11	Anode B, C
5	Omitted	10	Omitted
6	Omitted	9	Omitted
7	Anode G, H, J	8	Cathode C

EA213a

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Anode H, J	14	Anode G
2	Omitted	13	Anode B
3	Omitted	13	Omitted
4	Omitted	11	Cathode B, C
5	Omitted	10	Omitted
6	Omitted	9	Omitted
7	Cathode G, H, J	8	Anode C

EA213b

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Cathode H, J	14	Cathode G
2	Omitted	13	Cathode B
3	Omitted	12	Omitted
4	Omitted	11	Common Anode B, C
5	Omitted	10	Omitted
6	Omitted	9	Cathode R.H.D.P.
7	Anode G, H, J	8	Cathode C

EA213c

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Anode H, J	14	Anode G
2	Omitted	13	Anode B
3	Omitted	13	Omitted
4	Omitted	11	Common Anode B, C
5	Omitted	10	Omitted
6	Omitted	9	Anode R.H.D.P.
7	Cathode G, H, J	8	Anode C

EA213d

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Anode H, J	14	Anode G
2	Omitted	13	Anode A
3	Omitted	12	Omitted
4	Omitted	11	Cathode B, C
5	Omitted	10	Omitted
6	Omitted	9	Omitted
7	Cathode G, H, J	8	Anode C

EA213e

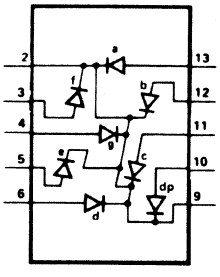
PIN NO.	FUNCTION	PIN NO.	RUNCTION
1	Omitted	14	Omitted
2	Cathode H, J	10	Cathode B
3	Omitted	12	Omitted
4	Cathode G	11	Omitted
5	Anode	10	Cathode C
6	Cathode H, J	9	Cathode R.H.D.P.
7	Omitted	8	Omitted

EA213f

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	Omitted	14	Omitted
2	Anode H, J	13	Anode B
3	Omitted	12	Omitted
4	Anode G	11	Omitted
5	Cathode	10	Anode C
6	Anode H, J	9	Anode R.H.D.P.
7	Omitted	8	Omitted

EA213g

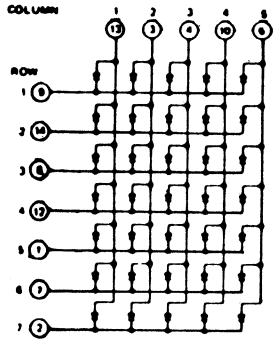
EA215



NO PIN
CATHODE[6]
ANODE-f
ANODE-g
ANODE-e
ANODE-d
NO PIN
NO PIN
CATHODE[6]
ANODE-dp
ANODE-c
ANODE-b
ANODE-a
NO PIN

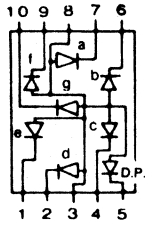
EA216

PIN 1	ROW 5
PIN 2	ROW 7
PIN 3	COLUMN 2
PIN 4	COLUMN 3
PIN 5	ROW 4
PIN 6	COLUMN 5
PIN 7	ROW 6
PIN 8	ROW 3
PIN 9	ROW 1
PIN 10	COLUMN 4
PIN 11	COLUMN 3
PIN 12	ROW 4
PIN 13	COLUMN 1
PIN 14	ROW 2



TOP VIEW ORIENTATION

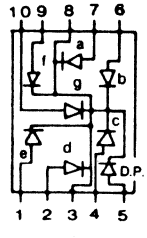
EA218



PIN NO.	FUNCTION
1	Cathode E
2	Cathode D
3	Anode *
4	Cathode C
5	Cathode D.P.
6	Cathode B
7	Cathode A
8	Anode *
9	Cathode F
10	Cathode G

*Pins 3 & 8 are internally connected

EA218



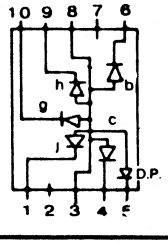
PIN NO.	FUNCTION
1	Anode E
2	Anode D
3	Cathode *
4	Anode C
5	Anode D.P.
6	Anode B
7	Anode A
8	Cathode *
9	Anode F
10	Anode G

*Pins 3 & 8 are internally connected

EA218a

EA219

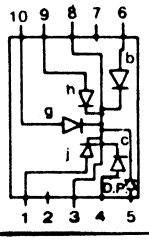
PIN NO.
1
2
3
4
5
6
7
8
9
10



EA219

FUNCTION	PIN NO.
Cathode J	1
No internal conn.	2
Anode *	3
Cathode C	4
Cathode D.P.	5
Cathode B	6
No internal conn.	7
Anode *	8
Cathode H	9
Cathode G	10

*Pins 3 & 8 are internally connected

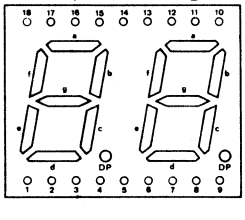


EA219a

FUNCTION
Anode J
No internal conn.
Cathode *
Anode C
Anode D.P.
Anode B
No internal conn.
Cathode *
Anode H
Anode G

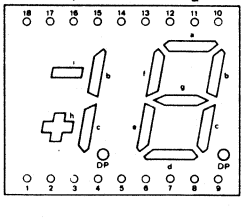
*Pins 3 & 8 are internally connected

EA220



Pin	Segment	Digit
1	i	1
2	h	1
3	c	1
4	DP	1
5	e	2
6	d	2
7	g	2
8	c	2
9	DP	2
10	b	2
11	a	2
12	f	2
13	Anode/Kathode	2
14	Anode/Kathode	1
15	b	1

EA220



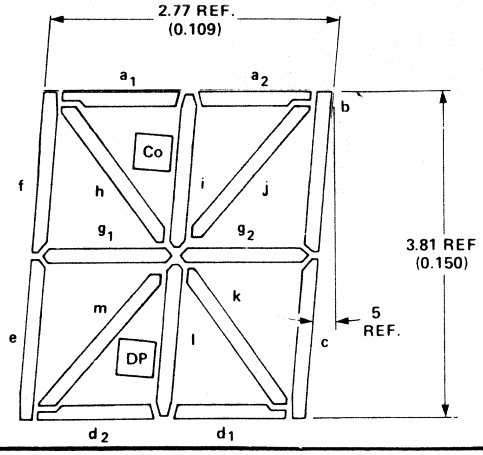
Pin	Segment	Digit
1	e	1
2	d	1
3	c	1
4	DP	1
5	e	2
6	d	2
7	g	2
8	c	2
9	DP	2
10	b	2
11	a	2
12	f	2
13	Anode/Kathode	2
14	Anode/Kathode	1
15	b	1
16	a	1
17	g	1
18	f	1

EA220a

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

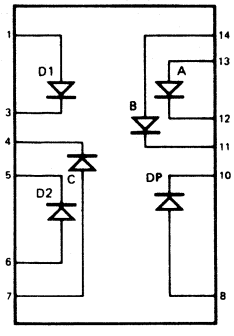
EA221



Pin No.	Function EA221		Function EA221a	
1	Anode	Segment g_1	Anode	Segment g_1
2	Anode	Segment DP	Anode	Segment DP
3	Cathode	Digit 1	Cathode	Digit 1
4	Anode	Segment d_2	Anode	Segment d_2
5	Anode	Segment l	Anode	Segment l
6	Cathode	Digit 3	Cathode	Digit 3
7	Anode	Segment e	Anode	Segment e
8	Anode	Segment m	Anode	Segment m
9	Anode	Segment k	Anode	Segment k
10	Cathode	Digit 4	Cathode	Digit 4
11	Anode	Segment d_1	Anode	Segment d_1
12	Anode	Segment j	Cathode	Digit 6
13	Anode	Segment C_O	Cathode	Digit 8
14	Anode	Segment g_2	Cathode	Digit 7
15	Anode	Segment a_2	Cathode	Digit 5
16	Anode	Segment i	Anode	Segment j
17	Cathode	Digit 2	Anode	Segment C_O
18	Anode	Segment b	Anode	Segment g_2
19	Anode	Segment a_1	Anode	Segment a_2
20	Anode	Segment c	Anode	Segment i
21	Anode	Segment h	Cathode	Digit 2
22	Anode	Segment f	Anode	Segment b
23			Anode	Segment a_1
24			Anode	Segment c
25			Anode	Segment h
26			Anode	Segment f

EA222

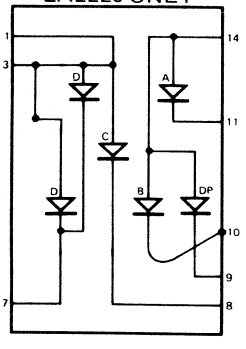
EA222 ONLY



PIN CONNECTIONS

PIN NO.	ELECTRICAL CONNECTIONS EA222	EA222a	EA222b	EA222c
1	Anode D1	Cathode A	Anode F	Anode C, D
2	No Pin	Cathode F	Anode G	No Pin
3	Cathode D1	Common Anode	No Pin	Anode C, D
4	Cathode C	No Pin	Common Cathode	No Pin
5	Cathode D2	No Pin	No Pin	No Pin
6	Anode D2	NC	Anode E	NC
7	Anode C	Cathode E	Anode D	Cathode D
8	Anode DP	Cathode D	Anode C	Cathode C
9	No Pin	Cathode DP	Anode DP	Cathode DP
10	Cathode DP	Cathode C	No Pin	Cathode B
11	Cathode B	Cathode G	NC	Cathode A
12	Cathode A	No Pin	Common Cathode	No Pin
13	Anode A	Cathode B	Anode B	No Pin
14	Anode B	Common Anode	Anode A	Anode A, B, & DP

EA222c ONLY



EA223

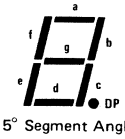
EA223

PIN	CONNECTION
1	No Connection
2	Segment c Anode
3	Digit 1 Cathode
4	Segment DP Anode
5	Digit 2 Cathode
6	Segment a Anode
7	Digit 3 Cathode
8	Segment e Anode
9	Digit 4 Cathode
10	Segment d Anode
11	Digit 5 Cathode
12	Segment g Anode
13	Digit 6 Cathode
14	Segment b Anode
15	Digit 7 Cathode
16	Segment f Anode
17	Digit 8 Cathode

EA223a

PIN	CONNECTION
1	No Connection
2	Segment c Anode
3	No Connection
4	Segment DP Anode
5	No Connection
6	Segment a Anode
7	Digit 1 Cathode
8	Segment e Anode
9	Digit 2 Cathode
10	Segment d Anode
11	Digit 3 Cathode
12	Segment g Anode
13	Digit 4 Cathode
14	Segment b Anode
15	No Connection
16	Segment f Anode
17	No Connection

Segment Designation



5° Segment Angle

EA224

EA224

PIN NO.	ELECTRICAL CONNECTION
1	Digit No. 1 Segment G Anode
2	Digit No. 1 Segment G Cathode
3	Digit No. 1 Segment H Anode *
4	Digit No. 1 Segment J Cathode *
5	Digit No. 1 Segment DP Anode
6	Digit No. 2 Segment DP Anode
7	Digit No. 3 Segment DP Anode
8	Digit No. 4 Segment DP Anode
9	Segment D Anode
10	Segment C Anode
11	Segment B Anode
12	Segment A Anode
13	Segment E Anode
14	Segment F Anode
15	Segment G Anode
16	Digit No. 1 Cathode
17	Digit No. 2 Cathode
18	NC
19	Digit No. 3 Cathode
20	Digit No. 4 Cathode

*Segments H and J internally connected in series

EA224a

PIN NO.	ELECTRICAL CONNECTION
1	Digit 1 Cathode
2	Digit 2 Cathode
3	Digit 3 Cathode
4	Segment C Anode
5	Digit 4 Cathode
6	Segment DP Anode
7	Digit 5 Cathode
8	Segment A Anode
9	Digit 6 Cathode
10	Segment E Anode
11	Digit 7 Cathode
12	Segment D Anode
13	Digit 8 Cathode
14	Segment G Anode
15	Digit 9 Cathode
16	Segment B Anode
17	Digit 10 Cathode
18	Segment F Anode
19	Digit 11 Cathode
20	Digit 12 Cathode

EA224b

PIN NO.	ELECTRICAL CONNECTION
1	Digit 1 Cathode
2	Digit 2 Cathode
3	Digit 3 Cathode
4	Segment A Anode
5	Segment F Anode
6	Segment B Anode
7	Segment G Anode
8	Digit 4 Cathode
9	Segment D Anode
10	Segment C Anode
11	Segment E Anode
12	Segment D.P. Anode
13	Digit 5 Cathode
14	Digit 6 Cathode

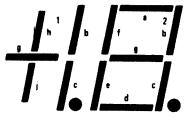
EA224c

PIN NO.	ELECTRICAL CONNECTION
1	Anode G
2	Anode F (Digit 1 Only, H)
3	Anode E (Digit 1 Only, J)
4	Anode D
5	Anode A
6	Anode C
7	Anode B
8	NC
9	Anode DP
10	NC
11	NC
12	Cathode 1
13	Cathode 2
14	Cathode 4
15	Cathode 5
16	Cathode 3

EA224d

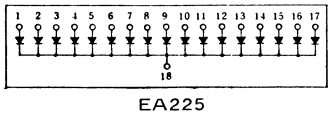
PIN NO.	ELECTRICAL CONNECTION
1	Digit No. 1 Segment G Anode
2	Digit No. 1 Segment G Cathode
3	Digit No. 1 Segment H Anode *
4	Digit No. 1 Segment J Cathode *
5	Digit No. 2 Segment DP Anode
6	Digit No. 3 Segment DP Anode
7	Digit No. 4 Segment DP Anode
8	Digit No. 5 Segment DP Anode
9	Segment D Anode
10	Segment C Anode
11	Segment B Anode
12	Segment A Anode
13	Segment E Anode
14	Segment F Anode
15	Segment G Anode
16	Digit No. 2 Cathode
17	Digit No. 3 Cathode
18	NC
19	Digit No. 4 Cathode
20	Digit No. 5 Cathode

*Segments H and J internally connected in series



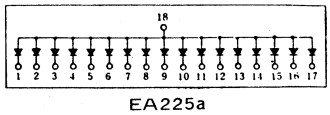
EA225

Pin No.	Segment
1.	B/Anode
2.	A/Anode
3.	M/Anode
4.	K/Anode
5.	H/Anode
6.	G/Anode
7.	T/Anode
8.	F/Anode
9.	E/Anode
10.	Dp/Anode
11.	S/Anode
12.	R/Anode
13.	D/Anode
14.	U/Anode
15.	P/Anode
16.	C/Anode
17.	N/Anode
18.	C/Cathode



EA225

Pin No.	Segment
1.	B/Cathode
2.	A/Cathode
3.	M/Cathode
4.	K/Cathode
5.	H/Cathode
6.	G/Cathode
7.	T/Cathode
8.	F/Cathode
9.	E/Cathode
10.	Dp/Cathode
11.	S/Cathode
12.	R/Cathode
13.	D/Cathode
14.	U/Cathode
15.	P/Cathode
16.	C/Cathode
17.	N/Cathode
18.	C/Anode

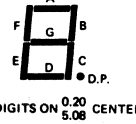


EA225a

EA226

PIN CONNECTIONS	Function	ANODE OR CATHODE
1	NC	No Connection
2	Digit 1	Cathode
3	Segment C	Anode
4	Digit 2	Cathode
5	D.P.	Anode
6	Digit 3	Cathode
7	Segment A	Anode
8	Digit 4	Cathode
9	Segment E	Anode
10	Digit 5	Cathode
11	Segment D	Anode
12	Digit 6	Cathode
13	Segment G	Anode
14	Digit 7	Cathode
15	Segment B	Anode
16	Digit 8	Cathode
17	Segment F	Anode
18	Digit 9	Cathode

Segment Designation



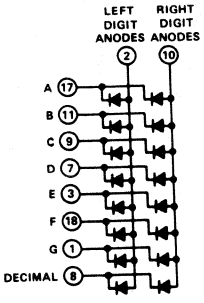
ALL DIGITS ON 0.20 / 5.08 CENTER

48. SCHEMATIC DRAWINGS

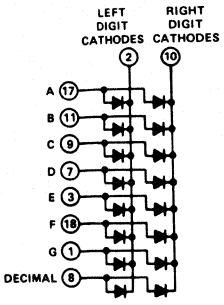
IN DRAWING NUMBER SEQUENCE

EA227

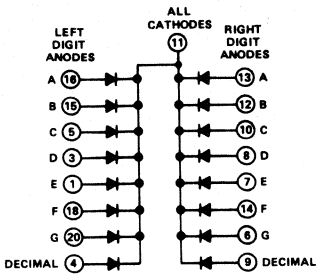
EA227



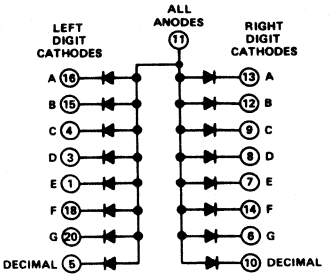
EA227a



EA227b

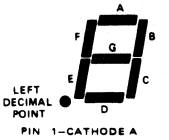


EA227c



EA228

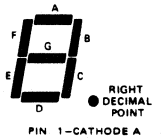
EA228



PIN 1–CATHODE A
PIN 2–CATHODE F
PIN 3–ANODE: DIGIT & DECIMAL
PIN 4–OMITTED
PIN 5–OMITTED
PIN 6–CATHODE LEFT DECIMAL
PIN 7–CATHODE E
PIN 8–CATHODE D
PIN 9–OMITTED
PIN 10–CATHODE C
PIN 11–CATHODE G
PIN 12–OMITTED
PIN 13–CATHODE B
PIN 14–ANODE: DIGIT & DECIMAL

PIN 3 IS INTERNALLY CONNECTED TO PIN 14

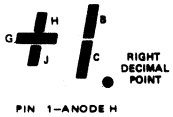
EA228a



PIN 1–CATHODE A
PIN 2–CATHODE F
PIN 3–ANODE: DIGIT & DECIMAL
PIN 4–OMITTED
PIN 5–OMITTED
PIN 6–OMITTED
PIN 7–CATHODE E
PIN 8–CATHODE D
PIN 9–CATHODE RIGHT DECIMAL
PIN 10–CATHODE C
PIN 11–CATHODE G
PIN 12–OMITTED
PIN 13–CATHODE B
PIN 14–ANODE: DIGIT & DECIMAL

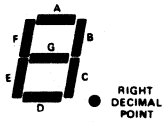
PIN 3 IS INTERNALLY CONNECTED TO PIN 14

EA228b



PIN 1–ANODE H
PIN 2–OMITTED
PIN 3–CATHODE H
PIN 4–CATHODE G
PIN 5–CATHODE J
PIN 6–ANODE J
PIN 7–ANODE G
PIN 8–ANODE DECIMAL
PIN 9–OMITTED
PIN 10–CATHODE DECIMAL
PIN 11–CATHODE C
PIN 12–CATHODE B
PIN 13–ANODE B
PIN 14–ANODE C

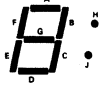
EA228c

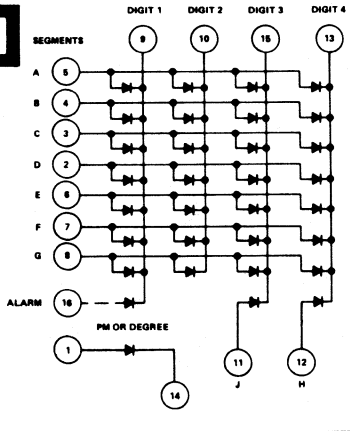


PIN 1–CATHODE: DIGIT & DECIMAL
PIN 2–ANODE F
PIN 3–ANODE G
PIN 4–ANODE E
PIN 5–ANODE D
PIN 6–CATHODE: DIGIT & DECIMAL
PIN 7–ANODE DECIMAL
PIN 8–ANODE C
PIN 9–ANODE B
PIN 10–ANODE A

PIN 1 IS INTERNALLY CONNECTED TO PIN 6

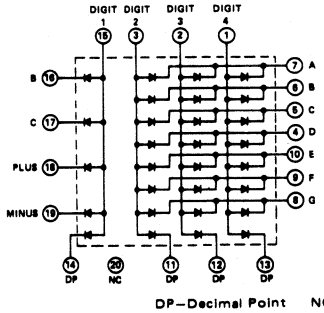
EA229



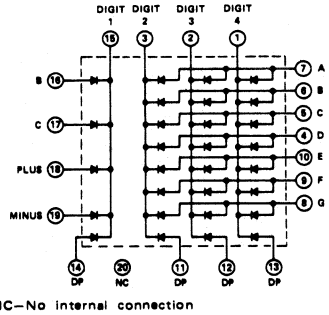


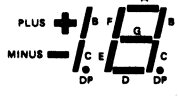
EA230

EA230



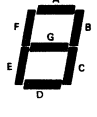
EA230a

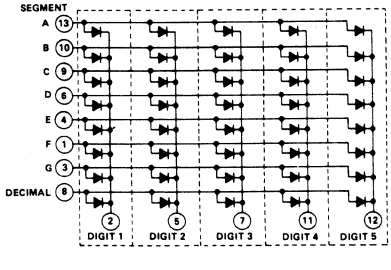




DP–Decimal Point NC–No internal connection

EA231





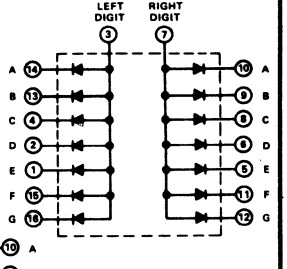
PAD CONNECTIONS

TAB FUNCTION	TAB FUNCTION
1. SEGMENT F ANODE	8. DECIMAL ANODE
2. DIGIT 1 CATHODE	9. SEGMENT C ANODE
3. SEGMENT G ANODE	10. SEGMENT B ANODE
4. SEGMENT E ANODE	11. DIGIT 4 CATHODE
5. DIGIT 2 CATHODE	12. DIGIT 5 CATHODE
6. SEGMENT D ANODE	13. SEGMENT A ANODE
7. DIGIT 3 CATHODE	

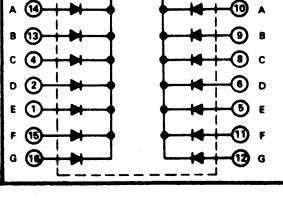
NOTE: DECIMAL INPUT NOT INCLUDED FOR EA231a

EA232

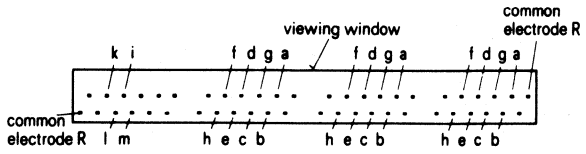
EA232

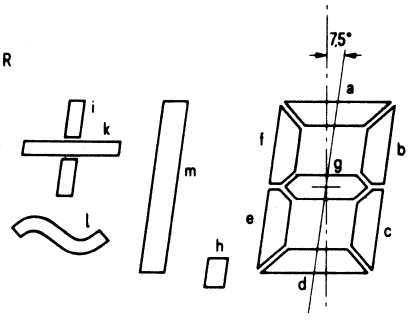


EA232a

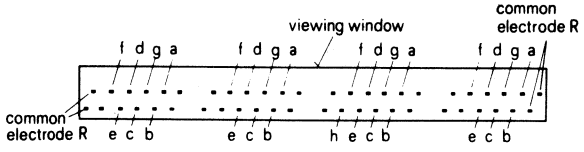


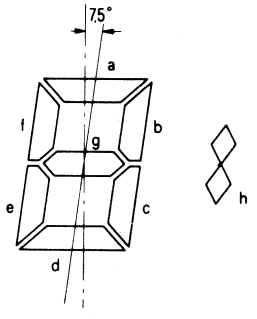
EB5



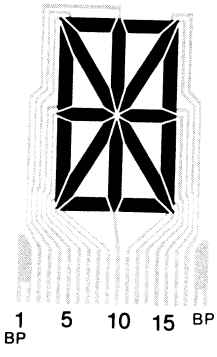


EB9





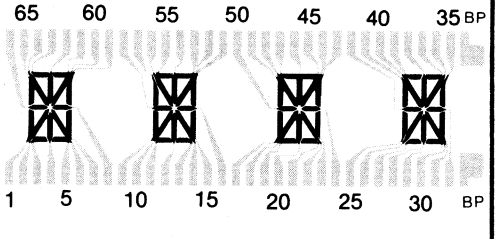
EB13



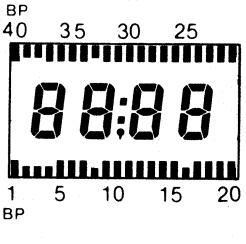
EB12

	EB12	EB12a	EB12b	EB12c	EB12d	EB12e	EB12f	EB12g	EB12h	EB12J
1	A1	A1	A1	B1	B1	B1	B1	B1	B1	B1
2	B1	B1	B1	C1	C1	C1	C1	C1	C1	C1
3	C1	C1	C1	D1	D1	D1	D1	D1	D1	D1
4	D1	D1	D1	E1	E1	E1	E1	E1	E1	E1
5	E1	E1	E1		DP.	DP.	DP.		DP.	DP.
6	G1	G1	G1	C2	C2	C2	C2	C2	C2	C2
7	F1	F1	F1	D2	D2	D2	D2	D2	D2	D2
8	A2	A2	A2	E2	E2	E2	E2	E2	E2	E2
9	B2	B2	B2		DP.	DP.	DP.		DP.	DP.
10	C2	C2	C2	C3	C3	C3	C3	C3	C3	C3
11	D2	D2	D2	D3	D3	D3	D3	D3	D3	D3
12	E2	E2	E2	E3	E3	E3	E3	E3	E3	E3
13	G2	G2	G2		DP.	DP.	DP.		G4	
14	F2	F2	F2			C4	C4		D4	C4
15	L	L	L			D4	D4		E4	D4
16	A3	A3	A3			E4	E4		C5	E4
17	B3	B3	B3	C4			DP.	K	D5	
18	C3	C3	C3	ADG	K		K	PM	E5	
19	D3	D3	D3	E4	Y		Y		G5	
20	E3	E3	E3	BP.	BP.	BP.	BP.	BP.	BP.	BP.
21	G3	G3	G3	A1	A1	A1	A1	A1	A1	A1
22	F3	F3	F3	F1	F1	F1	F1	F1	F1	F1
23	C4	K	C4	G1	G1	G1	G1	G1	G1	G1
24	E4		E4	B2	B2	B2	B2	B2	B2	B2
25	ADG	PM	ADG	A2	A2	A2	A2	A2	A2	A2
26	B4	AM	B1	F2	F2	F2	F2	F2	F2	F2
27	BP.	BP.	BP.	G2	G2	G2	G2	G2	G2	G2
28				L	L	L	L1	L	B3	L
29				B3	B3	B3	B3	B3	A3	B3
30				A3	A3	A3	A3	A3	F3	A3
31				F3	F3	F3	F3	F3	G3	F3
32				G3	G3	G3	G3	G3	L	G3
33							L2		B4	
34						B4	B4		A4	B4
35						A4	A4		F4	A4
36						F4	F4		G4	F4
37						G4	G4		L	G4
38					Z		Z		B5	
39				B4	X		X	AM	A5	
40									F5	

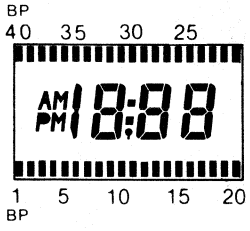
EB14



EB15

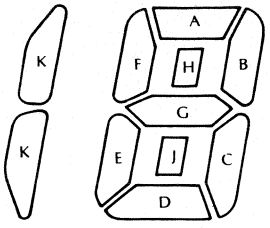


EB16



EB17

Segment Designation



Pad Assignments

SEGMENT	PAD FOR DIGIT NO. 1	2	3	SEGMENT	PAD
A	22	18	14	K(1)	2
B	21	17	13	Common	1
C	5	9	12	Colon	6
D	4	8	11		
E	3	7	10		
F	23	19	15		
G	24	20	16		

EB17

Pad Assignments

SEGMENT	PAD FOR DIGIT NO. 0	1	2	3	4	5	SEGMENT	PAD
A	2	41	9	34	29	26	Common	23
B	44	40	37	33	28	25	Colon	7
C	3	6	10	13	17	21	Alarm (•)	24
D	2	5	9	12	16	19		
E	1	4	8	11	14	18		
F	45	42	38	35	31	27		
G	46	43	39	36	32	22		
H					30			
J					15	20		

EB17a

Pad Assignments

SEGMENT	PAD FOR DIGIT NO. 0	1	2	3	SEGMENT	PAD
A	34	30	24	20	Common	1
B	33	29	23	19	Colon	12
C	6	10	15	18	A (AM)	28
D	5	9	14	17	P (PM)*	27
E	3	7	13	16	Date*	11
F	36	31	25	21	Dash	11
G	2	32	26	22	D (Date)†	
H	35					
J	4	8				

EB17b

*713 Only
†712 Only

Pad Assignments

SEGMENT	PAD FOR DIGIT NO. 1	2	3	4	SEGMENT	PAD
A	34	29	24	20	Colons	27
B	33	28	23	19	Common	1 & 18
C	4	8	12	16	DP 1	5
D	3	7	11	15	DP 2	9
E	2	6	10	14	DP 3	13
F	35	30	25	21		
G	36	31	26	24		

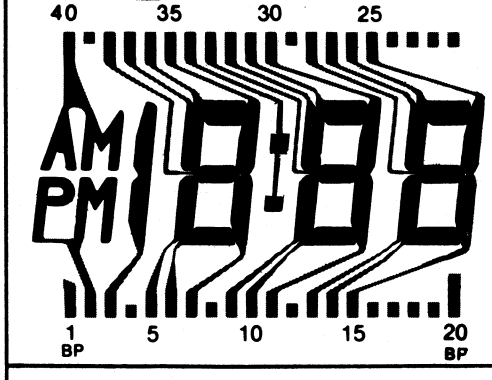
EB17c

Pad Assignments

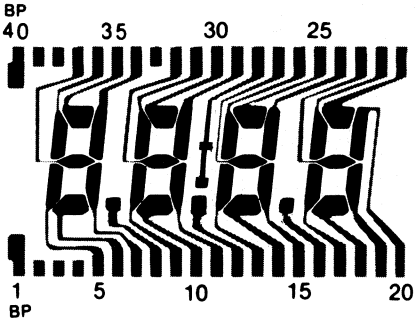
SEGMENT	PAD FOR DIGIT NO. 1	2	3	SEGMENT	PAD
A	29	24	20	Colons	27
B	28	23	19	Common	1 & 18
C	8	12	16	DP 1	5
D	7	11	15	DP 2	9
E	6	10	14	DP 3	13
F	30	25	21	1 ←	35
G	31	26	24	2 ←	2
K(1)	4			Minus −	3
				Plus :	36

EB17d

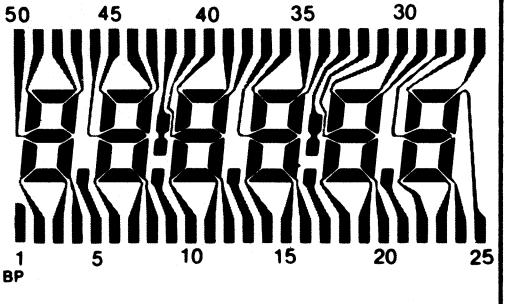
EB18



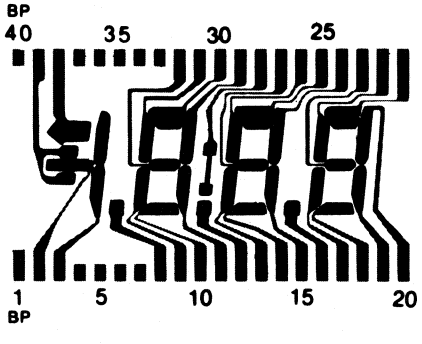
EB19



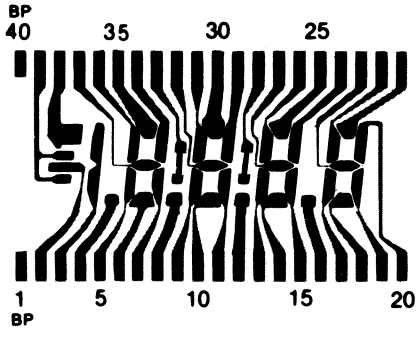
EB20



EB21



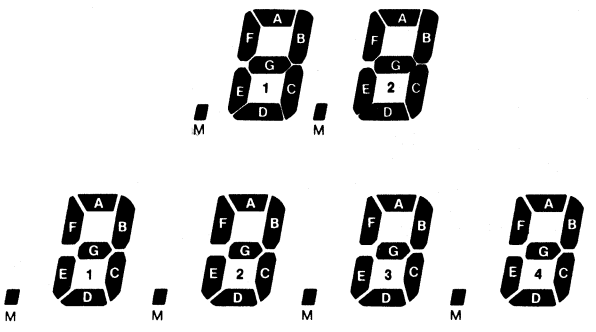
EB22



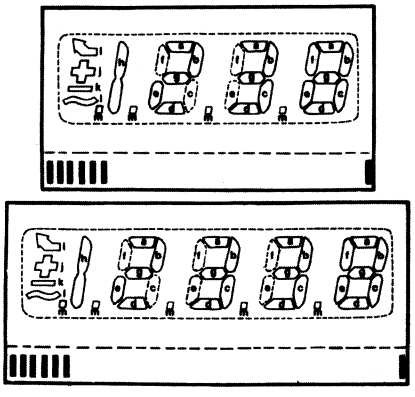
EB23

TERMINAL PAD IDENTIFICATION

DIGIT	SEGMENT	EB23	EB23a	EB23b	EB23c	EB23d	EB23e	EB23f	EB23g
	BP	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
1	M	4	4	3	4	3	3	3	4
	F	5	5	5	5	4	4	4	5
	G	6	6	6	6	5	5	5	6
	E	7	7	7	7	6	6	6	7
	D	8	8	8	8	7	7	7	8
	C	10	11	12	13	9	10	11	13
	B	11	12	13	14	10	11	12	14
	A	12	13	14	15	11	12	13	15
2	M	13	14	15	16	13	13	14	16
	F	14	15	17	17	14	14	15	17
	G	15	16	18	18	15	15	16	18
	E	16	17	19	19	16	16	17	19
	D	17	18	20	20	17	17	18	20
	C	20	20	24	25	18	20	22	25
	B	21	21	25	26	19	21	23	26
	A	22	22	26	27	20	22	24	27
3	M					21	23	25	28
	F					22	24	26	29
	G					23	25	27	30
	E					24	26	28	31
	D					25	27	29	32
	C					26	30	33	37
	B					27	31	34	38
	A					28	32	35	39
4	M					30	33	36	40
	F					31	34	37	41
	G					32	35	38	42
	E					33	36	39	43
	D					34	37	40	44
	C					36	40	44	49
	B					37	41	45	50
	A					38	42	46	51
	BP	24,25	24,25	29,30	29,30	39,40	44,45	49,50	54,55



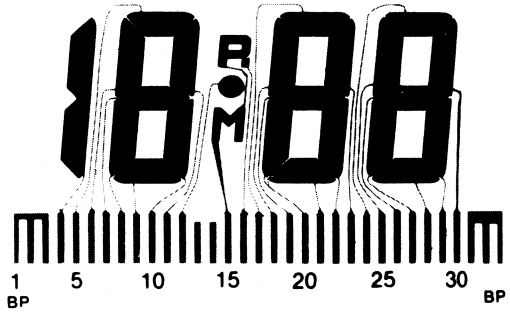
EB24



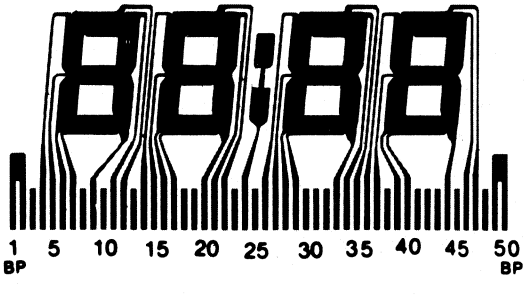
TERMINAL PAD IDENTIFICATION

DIGIT	SEGMENT	EB24	EB24a	EB24b	EB24c	EB24d	EB24e
	BP	1/2	1/2	1/2	1/2	1/2	1/2
1	i	3	3	4	3	3	4
	j	4	4	5	4	4	5
	k	5	5	6	5	5	6
	l	6	6	7	6	6	7
	m	9	9	9	9	8	9
	h	10	10	12	10	9	12
	m	11	12	15	11	11	15
	f	12	13	17	12	14	16
	g	13	14	18	13	15	17
	e	14	15	19	14	16	18
	d	15	16	20	15	17	19
	c	17	20	25	17	19	23
	b	18	21	26	18	20	24
	a	19	22	27	19	21	25
2	m	20	24	29	20	23	27
	f	21	25	31	21	25	28
	g	22	26	32	22	26	29
	e	23	27	33	23	27	30
	d	24	28	34	24	28	31
	c	26	32	39	26	30	34
	b	27	33	40	27	31	35
	a	28	34	41	28	32	36
3	m	29	36	43	29	34	38
	f	30	37	45	30	36	40
	g	31	38	46	31	37	41
	e	32	39	47	32	38	42
	d	33	40	48	33	39	43
	c	35	44	54	35	42	46
	b	36	45	56	36	43	47
	a	37	46	57	37	44	48
4	m				38	46	50
	f				39	48	52
	g				40	49	53
	e				41	50	54
	d				42	51	55
	c				44	55	59
	b				45	56	61
	a				46	57	62
	BP	39/40	49/50	59/60	49/50	59/60	64/65

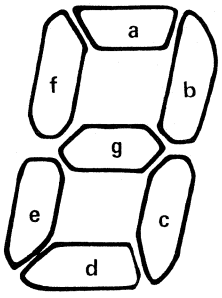
EB25



EB26



EB27



PIN CONNECTIONS

Pin No.	Segment	Pin No.	Segment
1	Backplane	26	Third Digit, Segment g
2	Backplane	27	Third Digit, Segment e
3	Arrow	28	Third Digit, Segment d
4	Plus Bars	29	NC
5	Minus	30	NC
6	About	31	NC
7	NC	32	Third Digit, Segment c
8	NC	33	Third Digit, Segment b
9	Leading Decimal Point 2	34	Third Digit, Segment a
10	Leading Digit 1	35	NC
11	NC	36	Fourth Decimal Point
12	Second Decimal Point	37	Fourth Digit, Segment f
13	Second Digit, Segment f	38	Fourth Digit, Segment g
14	Second Digit, Segment g	39	Fourth Digit, Segment e
15	Second Digit, Segment e	40	Fourth Digit, Segment d
16	Second Digit, Segment d	41	NC
17	NC	42	NC
18	NC	43	NC
19	NC	44	Fourth Digit, Segment c
20	Second Digit, Segment c	45	Fourth Digit, Segment b
21	Second Digit, Segment b	46	Fourth Digit, Segment a
22	Second Digit, Segment a	47	NC
23	NC	48	NC
24	Third Decimal Point	49	Backplane
25	Third Digit, Segment f	50	Backplane

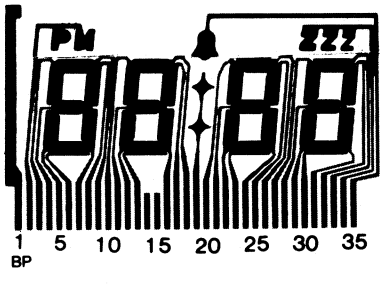
EB28

Pad	Digit Segment	Pad	Digit Segment	Pad	Digit Segment	Pad	Digit Segment
1	NC	11	F2	21	F3	31	D4
2	COM	12	G2	22	G3	32	C4
3	PM	13	E2	23	E3	33	B4
4	F1	14	D2	24	D3	34	A4
5	G1	15	NC	25	C3	35	FLAG
6	E1	16	NC	26	B3	36	BELL
7	D1	17	C2	27	A3		
8	C1	18	B2	28	F4		
9	B1	19	A2	29	G4		
10	A1	20	COL	30	E4		

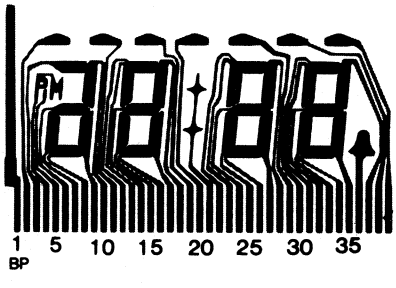
EB29

Pad	Digit Segment	Pad	Digit Segment	Pad	Digit Segment	Pad	Digit Segment
1	COM	11	C2	21	A4	31	F2
2	NC	12	DP2	22	F4	32	G2
3	NC	13	E3	23	G4	33	NC
4	NC	14	D3	24	B3	34	B1
5	E1	15	C3	25	A3	35	A1
6	D1	16	DP3	26	F3	36	F1
7	C1	17	E4	27	G3	37	G1
8	DP1	18	D4	28	COL	38	NC
9	E2	19	C4	29	B2	39	NC
10	D2	20	B4	30	A2	40	COM

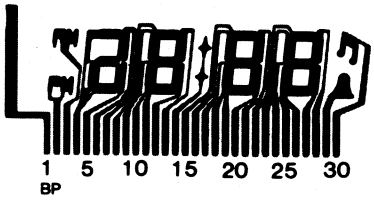
EB30



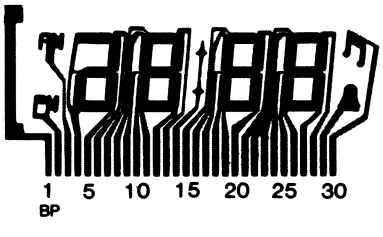
EB31



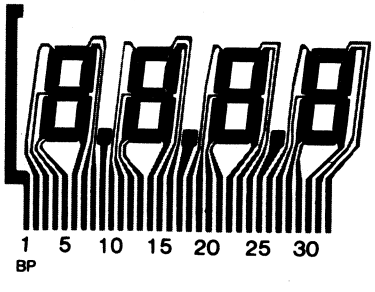
EB32



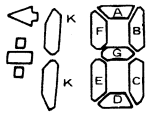
EB33



EB34



EB35



EB35

SEGMENT	DIGIT 1	DIGIT 2	DIGIT 3	SEGMENT	PIN
A	28	23	19	COMMON	1
B	27	22	18	COMMON	36
C	9	13	17	:	35
D	8	12	16	–	2
E	7	11	15	←	35
F	29	24	20	DP 1	6
G	30	25	21	DP 2	10
				DP 3	14
				COLON	26
				K	3

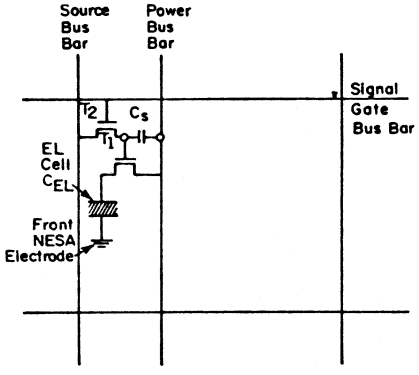
EB35a

SEGMENT	DIGIT 1	DIGIT 2	DIGIT 3	DIGIT 4	SEGMENT	PIN
A	32	28	23	19	COMMON	1
B	31	27	22	18	COMMON	35
C	5	9	13	17	DP 1	6
D	4	8	12	16	DP 2	10
E	3	7	11	15	DP 3	14
F	33	29	24	20	COLON	26
G	34	30	25	21		

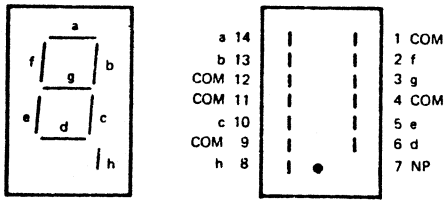
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EC2

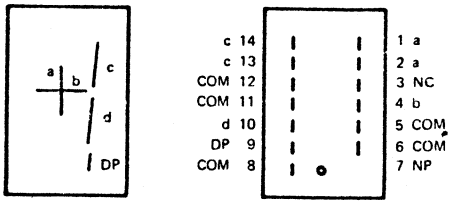


EC4



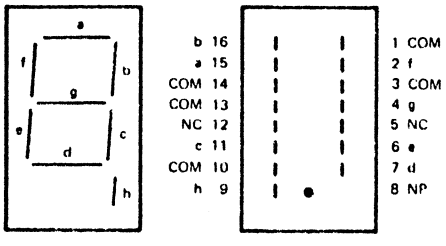
NOTE: ALL COMMON PINS MUST BE INTERCONNECTED.

EC5



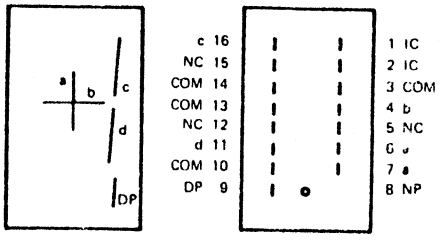
NOTE: ALL COMMON PINS MUST BE INTERCONNECTED.

EC6



NOTE: ALL COMMON PINS MUST BE INTERCONNECTED.

EC7

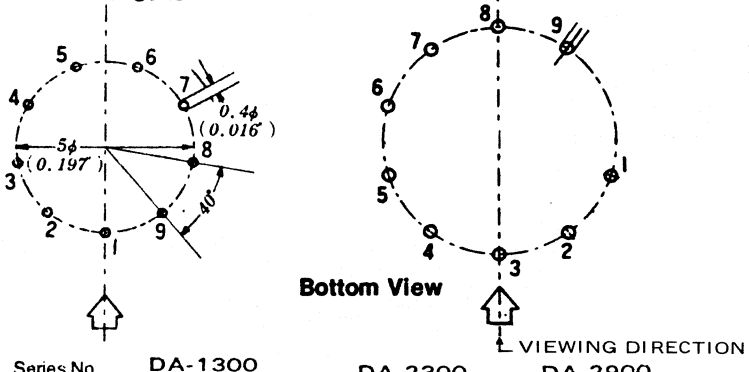


NOTE: ALL COMMON PINS MUST BE INTERCONNECTED.

EC8

BASE DIAGRAM, LEAD & PIN CIRCLE DIMENSIONS & DESIGNATION

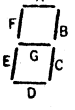
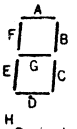
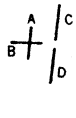
DA-1000 Series



Series No.	DA-1300 DA-1600	DA-2300	DA-2900
A	7.1 (0.281)	5.9 (0.230)	11.887 (0.468)
B	0.4 (0.016)	0.5 (0.020)	1.0 (0.040)

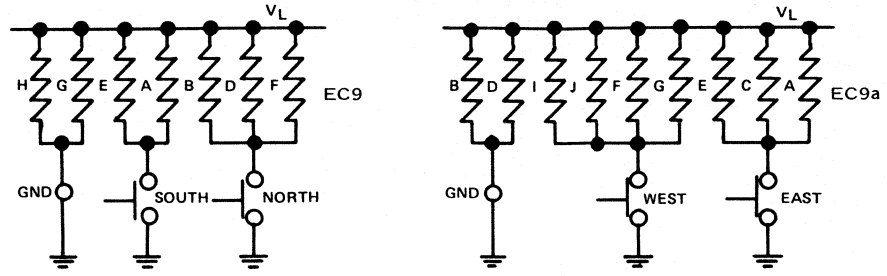
Dimensions in Millimeters and (Inches)

SEGMENT ASSIGNMENT

Display	Type No. \ Pin No.	1	2	3	4	5	6	7	8	9
	DA-1000	G	D	B	C	A	F	E	NC	COM
	DA-1300									
	DA-1600									
	DA-2300	NC	COM	E	D	C	G	A	B	F
	DA-2900									
	DA-1010	G	D	B	C	A	F	E	H	COM
	DA-1310									
	DA-1610									
	DA-2310	H	COM	E	D	C	G	A	B	F
H Decimal Point	DA-2910									
	DA-1020	A	NC	C	D	B	NC	NC	NC	COM
	DA-1320									
	DA-1620									
	DA-2320	NC	COM	NC	NC	NC	D	B	C	A
	DA-2920									

	1	2	3	4	5	6	7	8	9
EC8	NC	COM	E	D	C	G	A	B	F
EC8a	H	COM	E	D	C	G	A	B	F
EC8b	NC	COM	NC	NC	NC	D	B	C	A

EC9



EC10

PIN	CONNECTIONS	PIN	CONNECTIONS
1	NUMERAL 1	8	NUMERAL 7
2	NUMERAL 2	9	NUMERAL 8
3	NUMERAL 3	10	ANODE
4	NUMERAL 4	11	NUMERAL 9
5	NUMERAL 5	12	NUMERAL 0
6	NUMERAL 6	13	RT DEC PT
7	ANODE	14	LFT DEC PT

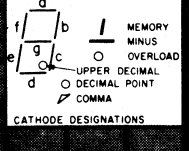
EC11

Pin Connection Table

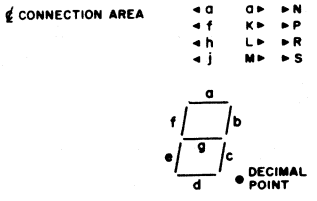
Pin No.	EC11	EC11a	EC11b	EC11c	EC11d	EC11e	EC11f	EC11g	EC11h	EC11j	EC11k	EC11m	EC11n	EC11p
1	a	a	a	a	a	a	a	a	a	a	a	a	NC	NC
2	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	A1	a	a
3	b	b	b	f	b	b	f	b	b	b	f	b	A1	A1
4	A2	A2	A2	NC	A2	A2	A2	A2	A2	NC	NC	NC	f	b
5	*g	*g	c	Mm	c	c	Mm	c	c	c	Mm	c	A2	A2
6	A3	A3	A3	A2	NC	A3	A3	A3	M	A2	A2	A2	Mm	c
7	c	c	NC	M	NC	NC	M	Udp	M	dp	M	dp	NC	NC
8	A4	A4	A4	A4	A3	A4	A4	A4	NC	A3	A3	A3	M	Udp
9	dp	dp	dp	dp	dp	dp	O	Ldp	d	C	O	C	A3	A3
10	A5	A5	A5	A5	A4	A5	A5	A5	A3	NC	NC	NC	O	Ldp
11	NC	NC	NC	C	C	C	c	C	dp	NC	c	NC	A4	A4
12	A6	A6	A6	A6	A5	A6	A6	A6	A4	A4	A4	A4	c	C
13	d	NC	d	NC	NC	NC	dp	NC	NC	NC	dp	NC	NC	NC
14	A7	A7	A7	A7	NC	NC	A7	A7	A5	A5	A5	A5	dp	NC
15	e	d	e	NC	NC	NC	C	NC	NC	NC	C	NC	A5	A5
16	A8	A8	A8	A8	A6	A7	A8	A8	A6	NC	NC	NC	C	NC
17	**g	e	g	NC	NC	NC	NC	NC	NC	NC	NC	NC	A6	A6
18	A9	A9	A9	A9	A7	A8	A9	A9	A7	A6	A6	A6	NC	NC
19	f	***g	f	d	d	d	NC	NC	NC	NC	NC	NC	NC	NC
20		A10		A10	A8	A9	A10	A10	A8	A7	A7	A7	NC	NC
21		f		e	e	e	d	NC	NC	d	d	NC	A7	A7
22				A11	NC	A10	A11	A11	A9	NC	NC	NC	NC	NC
23				g	g	g	e	NC	NC	e	e	NC	A8	A8
24				A12	A9	A11	A12	A12	A10	A8	A8	A8	NC	NC
25				f	f	f	g	NC	NC	g	g	NC	NC	NC
26							A13	A13	A11	A9	A9	A9	NC	NC
27							b	d	e	f	b	d	A9	A9
28								A14	A12			NC	NC	NC
29								e	g			e	A10	A10
30								A15	dp			A10	NC	NC
31								g	f			g	NC	NC
32								A16	MT			A11	d	NC
33								f	MT			f	A11	A11
34													e	NC
35													A12	A12
36													g	NC
37													NC	NC
38													b	NC
39													A13	A13
40														NC
41														A14
42														d
43														NC
44														e
45														A15
46														g
47														A16
48														f
49														NC

LEGEND

C	Comma
Udp	Upper decimal pt.
Ldp	Lower decimal pt.
O	Overload
M	Minus
Mm	Memory
MT	Mantissa
A	Anode
NC	No Connection
dp	Decimal Point
*	Digits 1-2
**	Digits 3-9
***	Digits 3-10



EC12



CATHODE DESIGNATIONS

Table 1. PIN CONNECTIONS

PAD	DESIG.	PAD	DESIG.	PAD	DESIG.
1	A1	13	A4	25	NC
2	S	14	c	26	A10
3	R	15	A5	27	e
4	P	16	dp	28	A11
5	N	17	A6	29	f
6	A2	18	d	30	A12
7	M	19	A7	31	h
8	L	20	dp	32	A13
9	K	21	A8	33	j
10	A3	22	NC	34	a
11	b	23	A9	35	A14
12	g	24	NC		

LEGEND

A	Anode
dp	Decimal Point
NC	No Connection

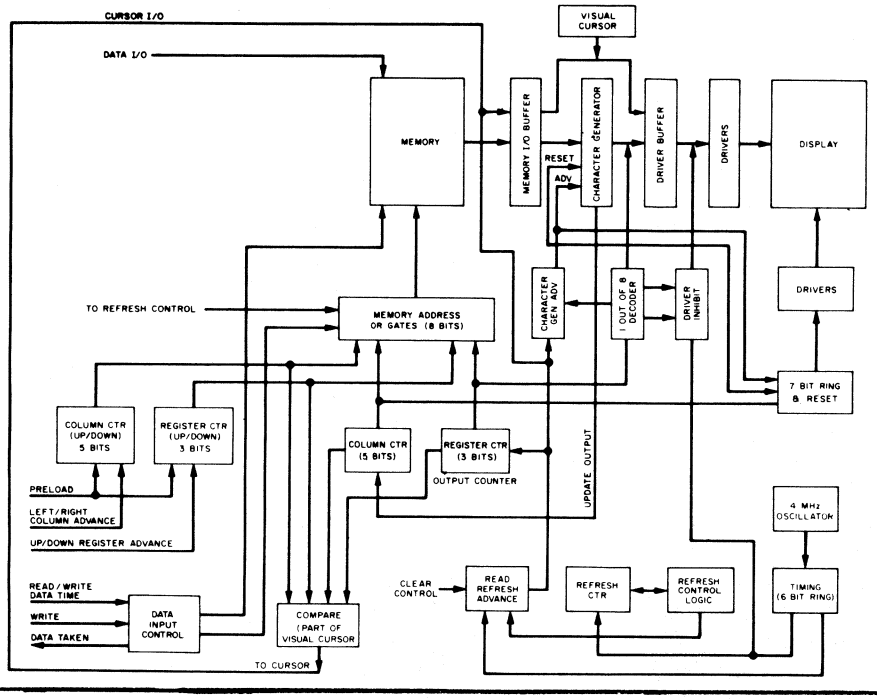
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

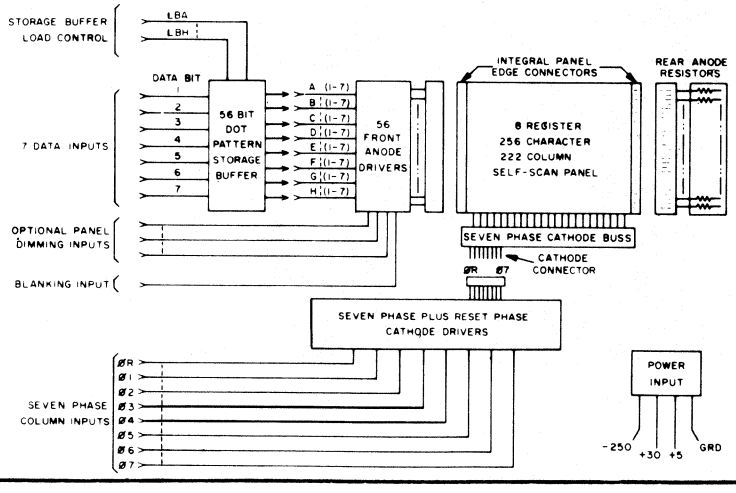
EC15

Terminal Connection	EC15	EC15a	EC15b	EC15c	EC15d	EC15e	EC15f	EC15g	EC15h	EC15j	EC15k	EC15m	Terminal Connection
1	Binary 16	Binary 32	Binary 32	Binary 32	Binary 16	Binary 32	Binary 32	Binary 32	+250v @ 60 ma	+250v @ 60 ma	Data Present	Data Present	1
2	Binary 4	Binary 8	Binary 8	Binary 8	Binary 4	Binary 8	Binary 8	Binary 8	Not Used	Not Used	+5v	+5v	2
3	Binary 1	Binary 2	Binary 2	Binary 2	Binary 1	Binary 2	Binary 2	Binary 2	Binary 8	Binary 8	Back Space	Back Space	3
4	No.1 Aux. Data	-12v@ - 150ma	-12v@ - 150ma	-12v@ - 150ma	No. 1 Aux. Data	-12v@ - 150ma	-12v@ - 150ma	-12v@ - 150ma	Binary 1	Binary 1	Binary 2	Binary 2	4
5	No.3 Aux. Data	Clear	Clear	Clear	No. 3 Aux. Data	Clear	Clear	Clear	Binary 16	Binary 16	Binary 16	Binary 16	5
6	No. 5 Aux. Data	Not Used	Not Used	Binary 64	No. 5 Aux. Data	Not Used	Not Used	Binary 64	Clear	Clear	Binary 4	Binary 4	6
7	No. 6 Aux. Data	Write Cycle	Write Cycle	Write Cycle	No. 6 Aux. Data	Write Cycle	Write Cycle	Write Cycle	Not Used	Not Used	Binary 32	Binary 32	7
8	Not Used	Blank Disable	Blank Disable	Blank Disable	Not Used	Blank Disable	Blank Disable	Blank Disable	+5v	+5v	Binary 8	Binary 8	8
9	Count Control	Not Used	Not Used	Not Used	Count Control	Not Used	Not Used	Not Used	Not Used	Not Used	Binary 1	Binary 1	9
10	Blank Disable	+250v @ 30ma	+250v @ 30ma	+250v @ 30ma	Blank Disable	+250v @ 30ma	+250v @ 30ma	+250v @ 30ma	Write Cycle	Write Cycle	Blank Disable	Blank Disable	10
11	Not Used	No Pin Termination for This Model			Not Used	No Pin Termination for This Model	No Pin Termination for This Model						11
12	+250v @ 30ma	No Pin Termination for This Model			+250v @ 30ma		No Pin Termination for This Model						12
A	Binary 32	Binary 16	Binary 16	Binary 16	Binary 32	Binary 16	Binary 16	Binary 16	Binary 4	Binary 4	+250v @ 60 ma	+250v @ 60 ma	A
B	Binary 8	Binary 4	Binary 4	Binary 4	Binary 8	Binary 4	Binary 4	Binary 4	Ground	Ground	Data Taken	Data Taken	B
C	Binary 2	Binary 1	Binary 1	Binary 1	Binary 2	Binary 1	Binary 1	Binary 1	Binary 2	Binary 2	Clear	Clear	C
D	-12v @ -50ma	Data Present	Data Present	Data Present	-12v @ -50ma	Data Present	Data Present	Data Present	Not Used	Binary 64	Not Used	Binary 64	D
E	No. 2 Aux. Data	Not Used	Back Space	Back Space	No. 2 Aux. Data	Not Used	Back Space	Back Space	Not Used	Not Used	Write Cycle	Write Cycle	E
F	No. 4 Aux. Data	Data Taken	Data Taken	Data Taken	No. 4 Aux. Data	Data Taken	Data Taken	Data Taken	Binary 32	Binary 32	Not Used	Not Used	F
H	No. 7 Aux. Data	Not Used	Not Used	Not Used	No. 7 Aux. Data	Not Used	Not Used	Not Used	Data Present	Data Present	Ground	Ground	H
J	Count Update	+5v @ 850ma	+5v @ 900ma	+5v @ 900ma	Count Update	+5v @ 850ma	+5v @ 900ma	+5v = 900ma	Data Taken	Data Taken	Ground	Ground	J
K	Clock	Not Used	Not Used	Not Used	Clock	Not Used	Not Used	Not Used	Blank Disable	Blank Disable	-12v	-12v	K
L	+5v @ 160ma	Ground	Ground	Ground	+5v @ 160ma	Ground	Ground	Ground	-12v	-12v	Not Used	Not Used	L
M	Reset	No Pin Terminations for This Model			Reset	No Pin Termination for This Model	No Pin Termination for This Model						M
N	Ground	No Pin Termination for This Model			Ground		No Pin Termination for This Model						N

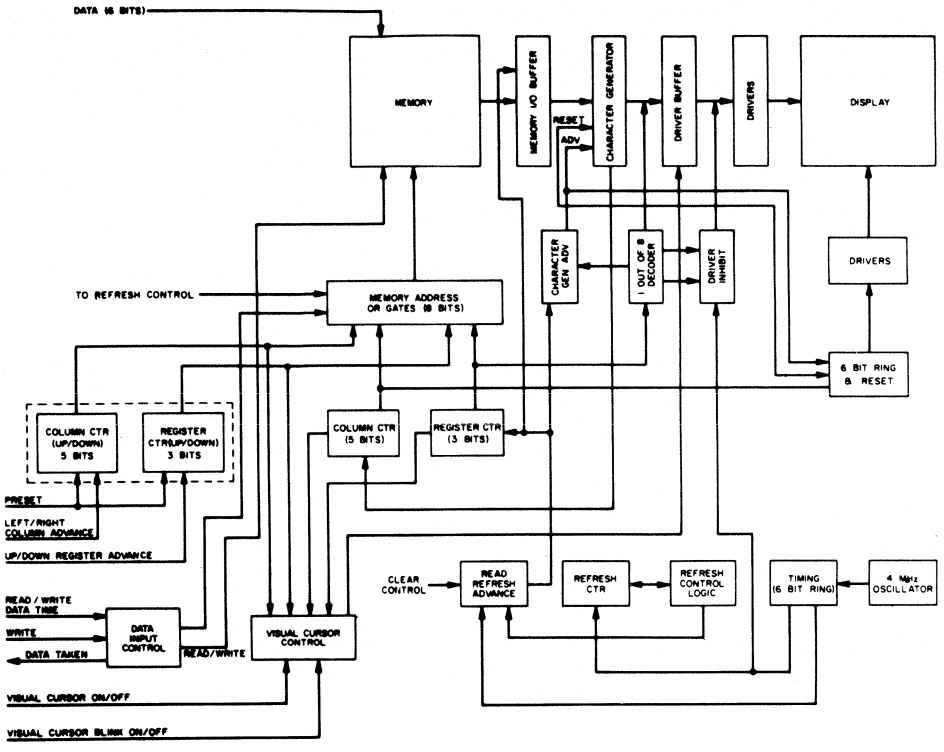
EC17



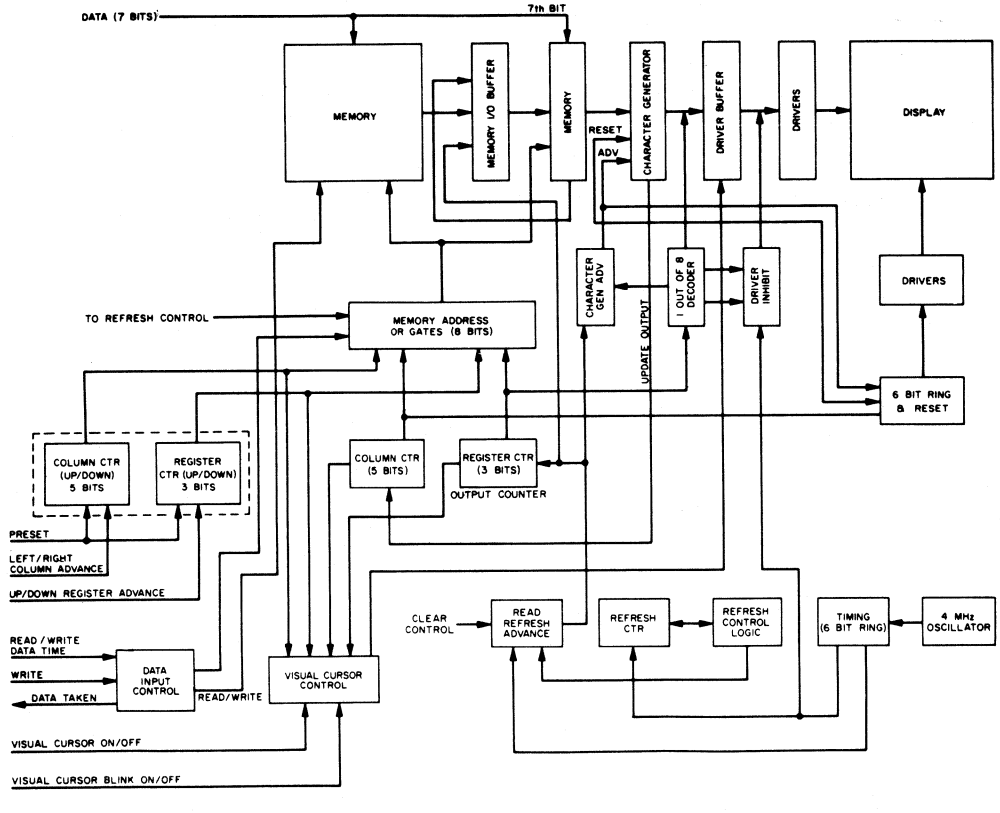
EC18



EC19


DATA 16 BITS)
MEMORY
MEMORY I/O BUFFER
CHARACTER GENERATOR
DRIVER BUFFER
DRIVERS
DISPLAY
RESET
ADV
CHARACTER GEN ADV
1 OUT OF 8 DECODER
DRIVER INHIBIT
DRIVERS
TO REFRESH CONTROL
MEMORY ADDRESS OR GATES (8 BITS)
6 BIT RING & RESET
COLUMN CTR (UP/DOWN) 5 BITS
REGISTER CTR(UP/DOWN) 3 BITS
COLUMN CTR (5 BITS)
REGISTER CTR (3 BITS)
PRESET
LEFT/RIGHT COLUMN ADVANCE
UP/DOWN REGISTER ADVANCE
CLEAR CONTROL
READ REFRESH ADVANCE
REFRESH CTR
REFRESH CONTROL LOGIC
TIMING (6 BIT RING)
4 MHz OSCILLATOR
READ / WRITE DATA TIME
WRITE
DATA TAKEN
DATA INPUT CONTROL
READ/WRITE
VISUAL CURSOR CONTROL
VISUAL CURSOR ON/OFF
VISUAL CURSOR BLINK ON/OFF

EC20

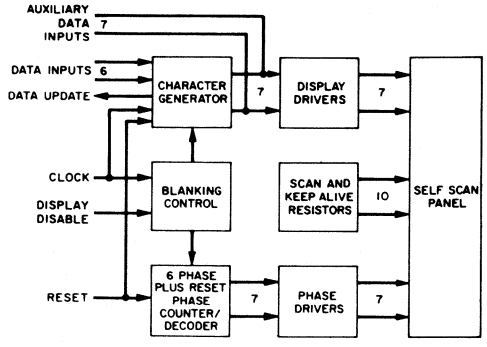

DATA (7 BITS)
7th BIT
MEMORY
MEMORY I/O BUFFER
MEMORY
RESET
ADV
CHARACTER GENERATOR
DRIVER BUFFER
DRIVERS
DISPLAY
CHARACTER GEN ADV
1 OUT OF 8 DECODER
DRIVER INHIBIT
DRIVERS
UPDATE OUTPUT
TO REFRESH CONTROL
MEMORY ADDRESS OR GATES (8 BITS)
6 BIT RING & RESET
COLUMN CTR (UP/DOWN) 5 BITS
REGISTER CTR (UP/DOWN) 3 BITS
COLUMN CTR (5 BITS)
REGISTER CTR (3 BITS)
OUTPUT COUNTER
PRESET
LEFT/RIGHT COLUMN ADVANCE
UP/DOWN REGISTER ADVANCE
CLEAR CONTROL
READ REFRESH ADVANCE
REFRESH CTR
REFRESH CONTROL LOGIC
TIMING (6 BIT RING)
4 MHz OSCILLATOR
READ / WRITE DATA TIME
WRITE
DATA TAKEN
DATA INPUT CONTROL
READ/WRITE
VISUAL CURSOR CONTROL
VISUAL CURSOR ON/OFF
VISUAL CURSOR BLINK ON/OFF

48. SCHEMATIC DRAWINGS

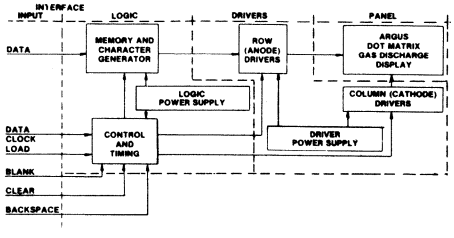
IN DRAWING NUMBER SEQUENCE

EC21

EC21				EC21a			
1	Display Disable In	14	Aux. Data 6 In	1	Not Used	14	Aux. Data 6 In
2	Data Update Out	15	Binary 2 In	2	Not Used	15	Not Used
3	Clock In	16	Aux. Data 7 In	3	Clock In	16	Aux. Data 7 In
4	Not Used	17	Binary 4 In	4	Not Used	17	Not Used
5	Not Used	18	Aux. Data 5 In	5	Not Used	18	Aux. Data 5 In
6	Negative 250V	19	Binary 8 In	6	Negative 250V	19	Not Used
7	Reset In	20	Aux. Data 3 In	7	Reset In	20	Aux. Data 3 In
8	Not Used	21	Not Used	8	Not Used	21	Not Used
9	Ground	22	Aux. Data 1 In	9	Ground	22	Aux. Data 1 In
10	Aux. Data 2 In	23	Binary 16 In	10	Aux. Data 2 In	23	Not Used
11	Not Used (Leave Open)	24	−12V	11	Not Used (Leave Open)	24	Not Used
12	Aux. Data 4 In	25	Binary 32 In	12	Aux. Data 4 In	25	Not Used
13	Binary 1 In	26	+5V	13	Not Used	26	+5V



EC22



EC23

EC23	
Pin No.	Segment
1	F
2	A
3	Common
4	G
5	D
6	E
7	C
8	Common
9	Common
10	Common
11	Common
12	B

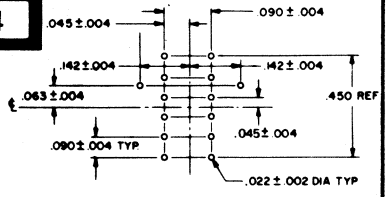
EC23a

1	A
2	G
3	D
4	B
5	Common
6	C
7	F
8	E

EC23b

1	F
2	Common
3	D
4	E
5	C
6	G
7	A
8	B

EC24



PIN LAYOUT

PIN NO.	ELEMENTS	PIN NO.	ELEMENTS
1	K (−)	8	IC
2	IC	9	IC
3	IC	*10	IC
4	IC	11	IC
5	IC	12	IC
6	K (+)	13	DEC PT
7	ANODE	14	IC

* Lead cut at base of tube.

EC25

PAD CONNECTIONS

PAD NO.	CONNECTION	PAD NO.	CONNECTION
1	a	21	d
2	f	22	Anode 5
3	h	23	Decimal Point
4	i	24	No Conn.
5	g	25	No Conn.
6	Anode 1	26	No Conn.
7	b	27	Anode 6
8	M	28	SKA
9	J	29	N
10	Anode 2	30	Anode 7
11	c	31	K
12	SKA	32	L
13	Decimal Point	33	Anode 8
14	Anode 3	34	Annun. 4
15	d	35	Annun. 3
16	SKA	36	Annun. 2
17	Decimal Point	37	Anode 9
18	Anode 4	38	D.C. K.A.
19	d	39	Annun. 1
20	e		

EC26

PIN CONNECTIONS

PAD NO.	CONNECTION	PAD NO.	CONNECTION	PAD NO.	CONNECTION	PAD NO.	CONNECTION
1	SKA (Top)	23	NC	45	NC	67	NC
2	a	24	NC	46	NC	68	NC
3	h	25	Anode 5	47	Anode 9	69	Anode 13
4	b	26	NC	48	NC	70	NC
5	Anode 1	27	Anode 5	49	Anode 9	71	Anode 13
6	i	28	NC	50	NC	72	NC
7	Anode 1	29	NC	51	NC	73	NC
8	g	30	NC	52	NC	74	NC
9	f	31	Anode 6	53	Anode 10	75	Anode 14
10	j	32	NC	54	NC	76	NC
11	Anode 2	33	Anode 6	55	Anode 10	77	Anode 14
12	c	34	NC	56	NC	78	NC
13	Anode 2	35	NC	57	Anode 11	79	Anode 15
14	SKA (Bottom)	36	NC	58	NC	80	Comma
15	Anode 3	37	Anode 7	59	NC	81	Anode 15
16	Decimal Point	38	NC	60	NC	82	n
17	Anode 3	39	Anode 7	61	Anode 11	83	l
18	d	40	NC	62	NC	84	è
19	Anode 4	41	Anode 8	63	Anode 12	85	Anode 16
20	Decimal Point	42	NC	64	NC	86	k
21	Anode 4	43	Anode 8	65	Anode 12	87	Anode 16
22	SKA (Bottom)	44	NC	66	NC	88	m
						89	Keep Alive

EC27

PIN CONNECTIONS

PIN	DESIG.	PIN	DESIG.	PIN	DESIG.
1	A1	13	A4	25	NC
2	S	14	c	26	A10
3	R	15	A5	27	e
4	P	16	dp	28	A11
5	N	17	A6	29	f
6	A2	18	d	30	A12
7	M	19	A7	31	h
8	L	20	dp	32	A13
9	K	21	A8	33	j
10	A3	22	NC	34	a
11	b	23	A9	35	A14
12	g	24	NC		

LEGEND

A	Anode
dp	Decimal Point
NC	No Connection

EC28

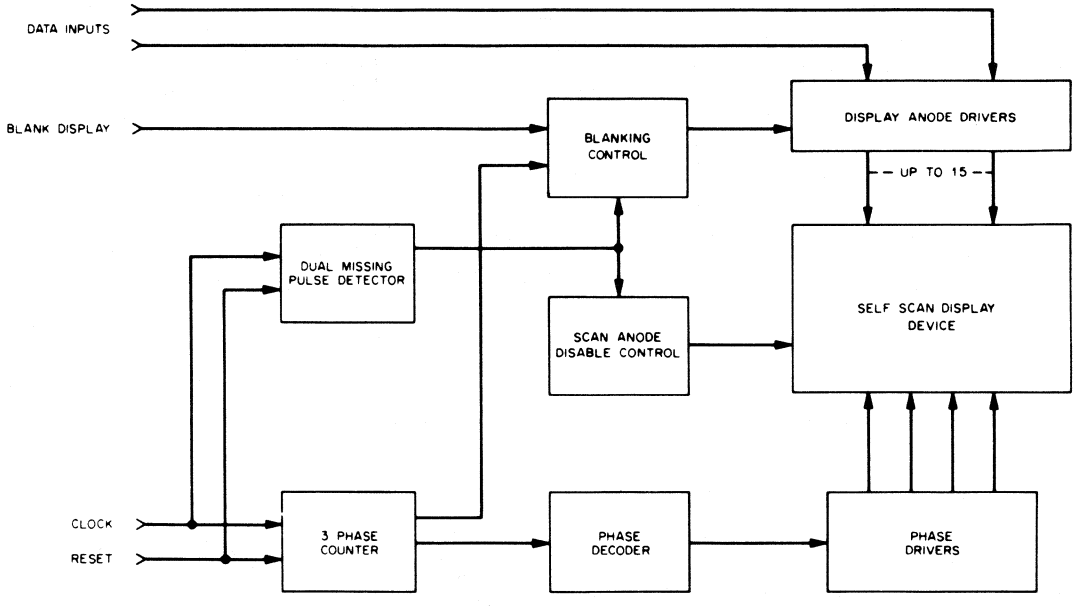
PIN CONNECTIONS

PIN	DESIG.	PIN	DESIG.	PIN	DESIG.
1	NC	15	A3	29	A6
2	a	16	NC	30	NC
3	A1	17	A4	31	A6
4	b	18	NC	32	dp
5	A1	19	A4	33	A7
6	c	20	NC	34	d
7	A2	21	NC	35	A7
8	NC	22	NC	36	e
9	A2	23	A5	37	A8
10	NC	24	NC	38	g
11	NC	25	A5	39	A8
12	Cm	26	NC	40	f
13	A3	27	A6	41	NC
14	NC	28	NC		

LEGEND

A	Anode
dp	Decimal Point
NC	No Connection
Cm	Comma

EC29



DISPLAY SYSTEM BLOCK DIAGRAM

PIN CONNECTIONS

EC29

Pin No.	Description	Pin No.	Description
1	−250V	14	Data in Row 2
2	Data in Row 15	15	Data in Row 11
3	Spare	16	Data in Row 1
4	Data in Row 7	17	Ground
5	Not Used	18	+5V
6	Data in Row 6	19	Blank Disable
7	Not Used	20	+5V
8	Data in Row 5	21	Ground
9	Not Used	22	Clock
10	Data in Row 4	23	Reset
11	Data in Row 16	24	Data in Row 13
12	Data in Row 3	25	Data in Row 14
13	Data in Row 12	26	Data in Row 17

EC29a

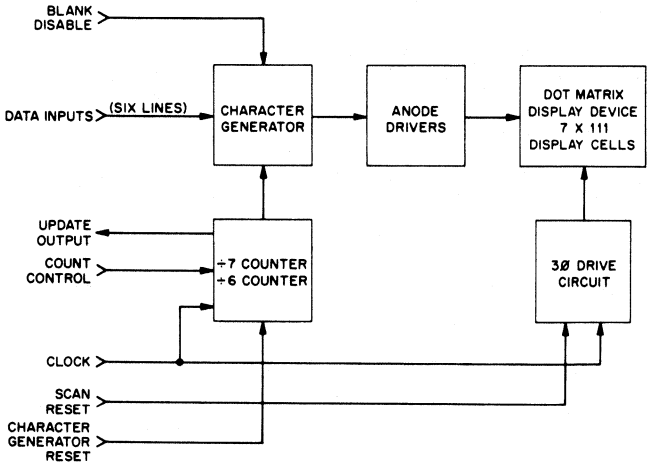
Pin No.	Description	Pin No.	Description
1	−250V	14	Data in Row 2
2	Data in Row 15	15	Data in Row 11
3	Spare	16	Data in Row 1
4	Data in Row 7	17	Ground
5	Data in Row 8	18	+5V
6	Not Used	19	Blank Disable
7	Data in Row 9	20	+5V
8	Data in Row 5	21	Ground
9	Data in Row 10	22	Clock
10	Data in Row 4	23	Reset
11	Data in Row 16	24	Data in Row 13
12	Data in Row 3	25	Data in Row 14
13	Not Used	26	Data in Row 17

EC29b

Pin No.	Description	Pin No.	Description
1	−250V	14	Not Used
2	Not Used	15	Data in Row 11
3	Spare	16	Not Used
4	Data in Row 7	17	Ground
5	Data in Row 8	18	+5V
6	Data in Row 6	19	Blank Disable
7	Data in Row 9	20	+5V
8	Data in Row 5	21	Ground
9	Data in Row 10	22	Clock
10	Data in Row 4	23	Reset
11	Not Used	24	Data in Row 13
12	Data in Row 3	25	Data in Row 14
13	Data in Row 12	26	Not Used

NOTE: Each of the three models has 17 rows, although not all of the 17 rows are active. Each model has a different number of active rows. Active rows are called out in the Pin Connection tables above.

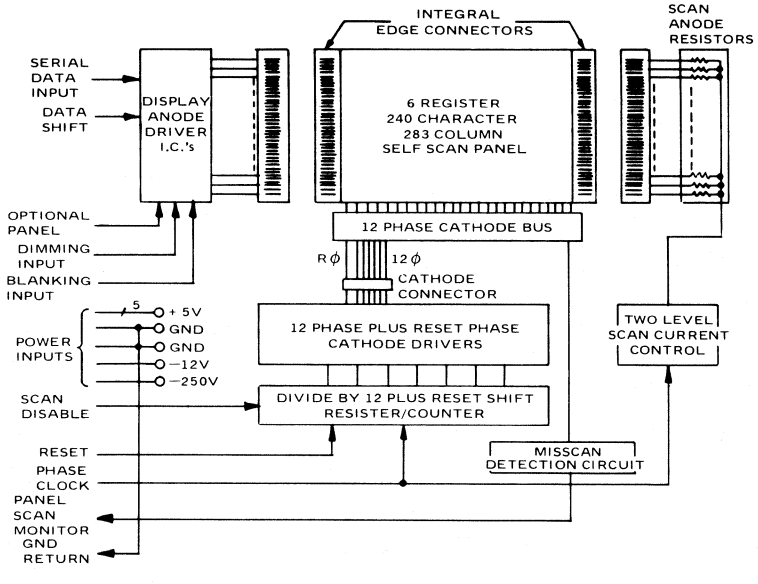
EC30



TERMINAL CONNECTIONS

PIN	DESIGNATION	PIN	DESIGNATION
1	Not Used	A	Not Used
2	Not Used	B	Not Used
3	Not Used	C	Not Used
4	Clock Reset	D	Data Update
5	Not Used	E	Binary 32
6	Not Used	F	Binary 16
7	−12V	H	Binary 8
8	Count Control	J	Binary 4
9	Blank Disable	K	Binary 1
10	Reset	L	Binary 2
11	Clock	M	+5V
12	+250V	N	GND

EC31



PIN CONNECTIONS

PIN	DESIGNATION
1	−250V
2	Spare
3	Spare
4	No Connection
5	Reset
6	Blanking
7	No Connection
8	No Connection
9	No Connection
10	+5V
11	+5V
12	+5V
13	+5V
14	Phase Clock
15	+5V
16	Scan Disable
17	No Connection
18	Data Shift Clock
19	No Connection
20	Panel Scan Monitor
21	−12V
22	Ground (Common)
23	Ground (Common)
24	Ground Return
25	Serial Data Input
26	Spare

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

EC32

PIN	DESIGNATION	PIN	DESIGNATION
1	Not Used	A	Not Used
2	Not Used	B	Not Used
3	Not Used	C	Not Used
4	No. 1 Aux. Data	D	−12V
5	No. 3 Aux. Data	E	No. 2 Aux. Data
6	No. 5 Aux. Data	F	No. 4 Aux. Data
7	No. 6 Aux. Data	H	No. 7 Aux. Data
8	Not Used	J	Not Used
9	Not Used	K	Clock
10	Not Used	L	+5V
11	Not Used	M	Reset
12	+250V	N	Ground

KEYWAY LOCATED BETWEEN PINS 7 AND 8

EC33

Pin	Connection	Pin	Connection
1	Binary 32	A	Binary 16
2	Binary 8	B	Binary 4
3	Binary 2	C	Binary 1
4	−12V	D	Data Present
5	Clear	E	Back Space
6	Binary 64	F	Data Taken
7	Write Cycle	H	Not Used
8	Blank Disable	J	+5V
9	Not Used	K	Not Used
10	+250V	L	Ground

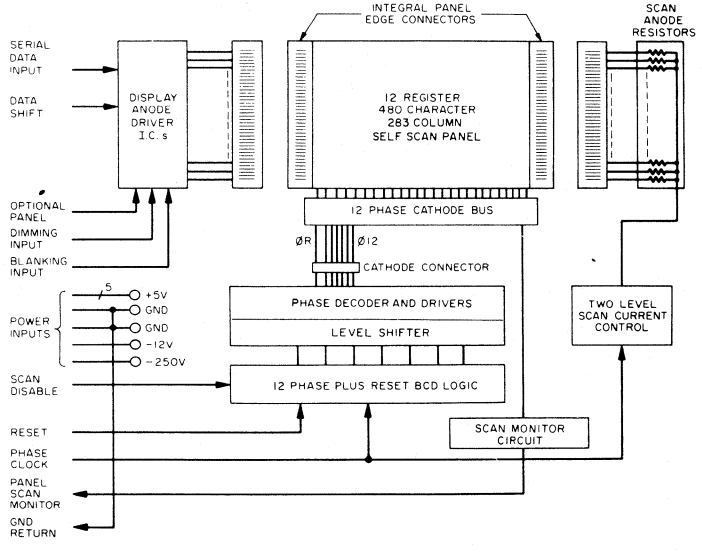
PIN CONNECTIONS

EC34

PIN	DESIGNATION	PIN	DESIGNATION
1	Not Used	A	Not Used
2	Not Used	B	Not Used
3	Not Used	C	Not Used
4	No. 1 Aux. Data	D	Not Used
5	No. 3 Aux. Data	E	No. 2 Aux. Data
6	No. 5 Aux. Data	F	No. 4 Aux. Data
7	No. 6 Aux. Data	H	No. 7 Aux. Data
8	Not Used	J	Not Used
9	Not Used	K	Clock
10	Not Used	L	+5V
11	Not Used	M	Reset
12	+250V	N	Ground

KEYWAY LOCATED BETWEEN PINS 7 AND 8

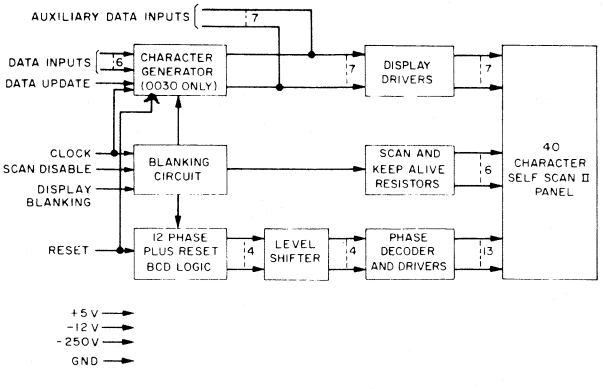
EC35



EC36

PIN	EC36 DESIGNATION
1	Not Used
2	Data Input 4 (Binary 8)
3	Data Input 5 (Binary 16)
4	Data Input 3 (Binary 4)
5	Data Input 6 (Binary 32)
6	Data Input 1 (Binary 1)
7	V_{GG}(−12V)
8	Data Input 2 (Binary 2)
9	Clock Input
10	Auxiliary Data 1
11	Scan Disable
12	Auxiliary Data 6
13	Data Update
14	Auxiliary Data 5
15	Reset Input
16	Auxiliary Data 4
17	Not Used
18	Auxiltary Data 3
19	Display Blanking
20	Auxiliary Data 2
21	Ground
22	Auxiliary Data 1
23	V_{CC}(+5 V)
24	Pin removed to provide keying
25	Not Used
26	V_{B-}(−250V) (Interim)

PIN	EC36a DESIGNATION
1	Not Used
2	Not Used
3	Not Used
4	Not Used
5	Not Used
6	Not Used
7	Not Used
8	Not Used
9	Clock Input
10	Auxiliary Data 1
11	Scan Disable
12	Auxiliary Data 6
13	Not Used
14	Auxiliary Data 5
15	Reset Input
16	Auxiliary Data 4
17	Not Used
18	Auxiliary Data 3
19	Not Used
20	Auxiliary Data 2
21	Ground
22	Auxiliary Data 1
23	V_{CC} (+5 V)
24	Pin removed to provide keying
25	Not Used
26	V_{B-}(−250V) (Interim)

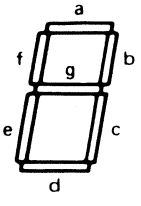


EC37

PIN INTERCONNECTION DESIGNATIONS

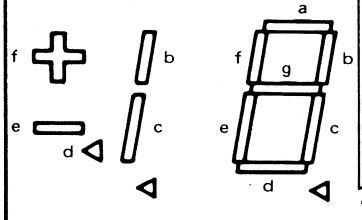
CONTACT NO.	FUNCTION	CONTACT NO.	FUNCTION
2	Anode-Keep Alive	29	3b
4	Cathode-Keep Alive	30	3c
5	1b	31	3d
6	1c	33	Anode 3
7	1d	35	3e
9	Anode 1	36	3g
11	1e	37	3f
12	1g	38	3a
13	1f	39	4b
14	1a	40	4c
15	2b	41	4d
16	2c	43	Anode 4 and AM
17	2d	45	4e
19	Anode 2	46	4g
21	2e	47	4f
22	2g	48	4a
23	2f	50	Cathode-PM
24	2a	51	Cathode-AM
26	Anode-Colon	53	Anode-PM
28	Cathode-Colons		

EC38



Segment	Pin Number
a	1
b	2
c	3
d	4
e	5
f	6
g	7
decimal	8
anode	9
keep alive cathode	10
A.P	11
M	12
colon (top)	13
colon (bottom)	14

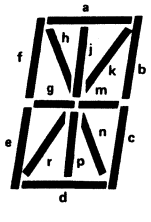
EC39



Segment/Symbol	Pin Number
a*	1
b/b	2
c/c	3
d/decimal	4
e/minus sign	5
f/plus sign	6
g*	7
decimal	8
anode	9

*Not used in half digit

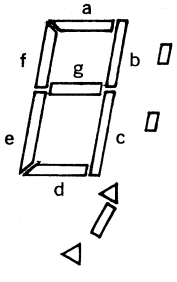
EC40



Pin	Segment
1	a
2	b
3	c
4	d
5	e
6	f
7	g
8	h
9	j

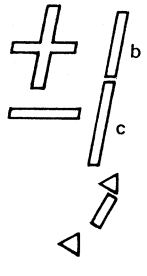
Pin	Segment
10	k
11	m
12	n
13	p
14	r
15	Dec. Point
16	Keep Alive
17	Anode

EC41



Segment/Symbol	Pin Number(s)
a	1a, 1b*
b	2a, 2b*
c	3a, 3b*
d	4a, 4b*
e	5a, 5b*
f	6a, 6b*
g	7a, 7b*
decimal	8
comma	8 and 15
colon	13 and 14
anode	9a and 9b*
Keep-alive cathode	10

EC42



Segment/Symbol	Pin Number(s)
b	2a, 2b*
c	3a, 3b*
decimal	8
comma	8 and 15
anode	9a and 9b*
Keep-alive cathode	10
+ plus	1a, 7a, 11
− minus	12

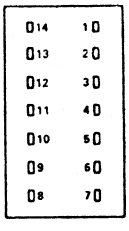
*Two pins are provided for "b" and "c" segments and for the anode. It is recommended that these pin pairs be electrically connected to ensure optimum performance. Pins should not be bent or cut off.

*Two pins are provided for each of the seven digit segments and for the anode. It is recommended that these pin pairs be electrically connected to ensure optimum performance. Pins should not be bent or cut off.

EC43

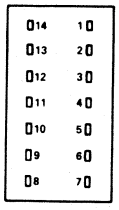
Term No.	Segment Function Characters 1 - 8	Term No.	Segment Function Characters 9 - 16
1	Anode/Keep Alive (Left)	28	Comma
2	Keep Alive (Left)	29	Anode/Char. 9
3	Anode/Char 1	30	n
4	n	31	m
5	h	32	Anode/Char. 10
6	Anode/Char. 2	33	a
7	m	34	k
8	Decimal	35	f
9	Anode/Char. 3	36	Anode/Char. 11
10	k	37	j
11	d	38	e
12	Anode/Char. 4	39	Anode/Char. 12
13	a	40	d
14	j	41	h
15	e	42	Anode/Char. 13
16	Anode/Char. 5	43	b
17	g	44	c
18	f	45	g
19	Anode/Char. 6	46	Anode/Char. 14
20	c	47	Decimal
21	r	48	r
22	Anode/Char. 7	49	Anode/Char. 15
23	b	50	p
24	p	51	Anode/Char. 16
25	Anode/Char. 8	52	Keep Alive (Right)
26	Comma	53	Anode/Keep Alive (Right)
27	Not Used		

EC44



ELECTRICAL SIGNAL	EC44	EC44a	EC44b	EC44c
Digit A BCD Input — 1	A4	A4	A2	A2
Digit A BCD Input — 2	A8	A8	A8	A8
Digit A BCD Input — 4	A9	A9	A10	A10
Digit A BCD Input — 8	A11	A11	A1	A1
Cp (store)	A5	A5	A9	A9
BI/RBO	A1	A1	A12	A12
RBI	A10	A10	A13	A13
Decimal Point — Digit A	A13	A13	A4	A4
Digit B BCD Input — 1		B3	B4	B4
Digit B BCD Input — 2		B4	B8	B8
Digit B BCD Input — 4		B9	B9	B9
Digit B BCD Input — 8		B11	B11	B11
Cp (store)	A2	A2	B5	B5
BI/RBO		B10	B1	B1
RBI		B1	B10	B10
Decimal Point — Digit B	B5	B5	B13	B13
Digit C BCD Input — 1			C3	
Digit C BCD Input — 2			C4	
Digit C BCD Input — 4			C9	
Digit C BCD Input — 8			C11	
Cp (store)			B2	B2
BI/RBO			C10	
RBI			C1	
Decimal Point — Digit C			C5	C5
+180 ±10 Vdc	B13	B13	C13	C13
+5 ±5% Vdc (1)	B2	B2	C2, A3	C2, A3
Ground (1)	B12	B12	A14, C12	A14, C12
Keep-Alive Cathode (2)	A14	A14	A5 or B14	A5 or B14
Digit "1"	B4			C4
Plus "+"	B3			C3
Minus "—"	B1			C1

EC45



ELECTRICAL SIGNAL	EC45	EC45a	EC45b	EC45c
Digit A Input A (Cp)	A12	A12	A11	A11
Digit A Reset $R_{0(1)}$	A6	A6	A6	A6
Digit A Reset $R_{0(2)}$	A7	A7	A7	A7
Digit A Reset $R_{9(1)}$	A2	A2	A1	A1
Digit A Reset $R_{9(2)}$	A3	A3	A2	A2
D Output	A8	A8	A8	A8
Cp (store)	A5	A5	A10	A10
BI/RBO	A1	A1	A12	A12
RBI	A11	A11	A13	A13
Decimal Point (Digit A)	A13	A13	A4	A4
Digit B Input A (Cp)	B9	B9	B12	B12
Digit B Reset $R_{0(1)}$	B14	B14	B6	B6
Digit B Reset $R_{0(2)}$	B3	B3	B7	B7
Digit B Reset $R_{9(1)}$	B6	B6	B2	B2
Digit B Reset $R_{9(2)}$	B7	B7	B3	B3
D Output		B8	B8	B8
Cp (store)	B11	B11	B5	B5
BI/RBO		B10	B1	B1
RBI		B1	B11	B11
Decimal Poinnt (Digit B)	B5	B5	B13	B13
Digit C Input A (Cp)			C9	C9
Digit C Reset $R_{0(1)}$			C14	C14
Digit C Reset $R_{0(2)}$			C3	C3
Digit C Reset $R_{9(1)}$			C6	C6
Digit C Reset $R_{9(2)}$			C7	C7
D Output			C8	
Cp (store)			C11	C11
BI/RBO			C10	
RBI			C1	
Decimal Point (Digit C)			C5	C5
+180 +10 VDC	B13	B13	C13	C13
+5 ±5% VDC (1)	B2	B2	A3, C2	A3, C2
Ground (1)	B12	B12	A14, C12	A14, C12
Keep-Alive Cathode (2)	A14	A14	A5 or B14	A5 or B14
Plus "+"	B8			C8
Minus "–"	B1			C1

EC47

PIN	OUT
1	A4
2	Ka
3	Kf
4	AKa
5	Kb
6	Kg
7	A3
8	KKa
9	Ke
10	Kc
11	Kd
12	A2
13	Kh
14	KB
15	KT
16	A1

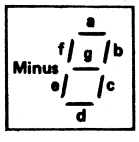
EC48

PIN	OUT
0	NC
1	A4
2	a
3	f
4	A3
5	b
6	g
7	e
8	c
9	d
10	nc
11	A2
12	bc
13	tc
14	A1
15	Ka
16	KAA

EC49

Legend
A = ANODE
dp = decimal point
ka = keep alive

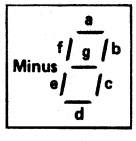
PIN	FUNCTION
1	dp1
2	NC
3	NC
4	NC
5	NC
6	NC
7	NC
8	NC
9	NC
10	dp2
11	A1
12	c
13	b
14	a
15	f
16	g
17	e
18	d
19	ka
20	kaA



EC50

Legend
A = ANODE
dp = decimal point
ka = keep alive

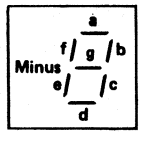
PIN	FUNCTION	PIN	FUNCTION
1	ka	16	NC
2	kaA	17	c
3	dp1	18	b
4	NC	19	a
5	NC	20	f
6	A1	21	g
7	NC	22	e
8	NC	23	d
9	dp2	24	c
10	NC	25	b
11	NC	26	a
12	A2	27	f
13	NC	28	g
14	NC	29	e
15	dp3	30	d



EC51

Legend
A = ANODE
dp = decimal point
ka = keep alive

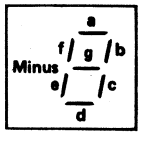
PIN	FUNCTION	PIN	FUNCTION
1	Ka	22	c
2	kaA	23	b
3	dp1	24	a
4	NC	25	f
5	NC	26	g
6	A1	27	e
7	NC	28	d
8	NC	29	c
9	dp2	30	b
10	NC	31	a
11	NC	32	f
12	A2	33	g
13	NC	34	e
14	NC	35	d
15	dp3	36	c
16	NC	37	b
17	NC	38	a
18	A3	39	f
19	NC	40	g
20	NC	41	e
21	dp4	42	d



EC52

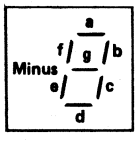
Legend
A = ANODE
dp = decimal point
ka = keep alive

PIN	FUNCTION	PIN	FUNCTION
1	ka Anode	26	dp
2		27	NC
3	ka	28	c
4	NC	29	NC
5	A1	30	b
6	NC	31	NC
7	NC	32	NC
8	NC	33	NC
9	NC	34	NC
10	NC	35	NC
11	A2	36	NC
12	NC	37	NC
13	NC	38	NC
14	NC	39	NC
15	NC	40	a
16	NC	41	NC
17	A3	42	f
18	NC	43	NC
19	NC	44	g
20	NC	45	NC
21	NC	46	minus
22	NC	47	e
23	A4	48	d
24	NC	49	NC
25	NC	50	NC



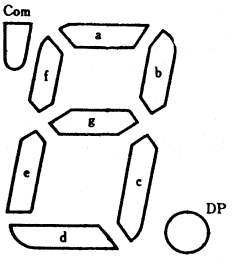
EC53

Legend
A = ANODE
dp = decimal point
ka = keep alive



PIN	FUNCTION	PIN	FUNCTION	PIN	FUNCTION
1	ka Anode	22	NC	43	NC
2		23	A4	44	NC
3	ka	24	NC	45	NC
4	NC	25	NC	46	NC
5	A1	26	NC	47	NC
6	NC	27	NC	48	NC
7	NC	28	NC	49	NC
8	NC	29	A5	50	NC
9	NC	30	NC	51	NC
10	NC	31	NC	52	a
11	A2	32	dp	53	NC
12	NC	33	NC	54	f
13	NC	34	c	55	NC
14	NC	35	NC	56	g
15	NC	36	b	57	NC
16	NC	37	NC	58	Minus
17	A3	38	NC	59	e
18	NC	39	NC	60	d
19	NC	40	NC	61	NC
20	NC	41	NC	62	NC
21	NC	42	NC		

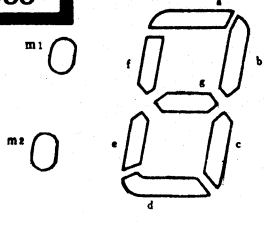
EC54



EC54a AND b HAVE NO "COM" CONNECTION

PIN NO.	EC54	EC54a	EC54b
1	F	F	F
2	13G	12G	P(f)
3	P(com)	11G	12G
4	12G	P(f)	P(g)
5	P(f)	10G	11G
6	11G	P(g)	P(e)
7	P(g)	9G	10G
8	10G	P(e)	9G
9	P(e)	8G	P(d)
10	9G	P(d)	8G
11	P(d)	7G	7G
12	8G	6G	6G
13	7G	P(DP)	5G
14	6G	5G	P(DP)
15	P(DP)	P(c)	4G
16	5G	4G	3G
17	P(c)	P(d)	P(c)
18	4G	3G	2G
19	P(b)	P(a)	P(b)
20	3G	2G	1G
21	P(a)	1G	P(a)
22	2G	F	F
23	1G		
24	F		

EC55

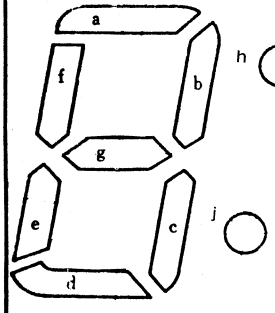


PIN NO.	
1	F(—)
2	P(m2)
3	P(e2)
4	P(d2)
5	P(c2)
6	G
7	P(g1)
8	P(e1)
9	P(d1)
10	P(c1)
11	F(+)
12	NC
13	P(b1)
14	P(a1)
15	P(f1)
16	P(b2)
17	G
18	P(a2)
19	P(f2)
20	P(g2)
21	P(m1)
22	NC

48. SCHEMATIC DRAWINGS

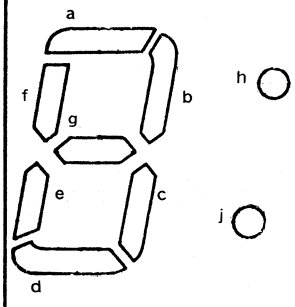
IN DRAWING NUMBER SEQUENCE

EC56



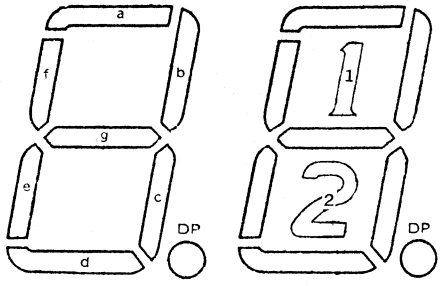
PIN NO.	
1	F(—)
2	G
3	P(e4)
4	P(d4,a4)
5	P(e4)
6	P(e3)
7	P(d3)
8	P(d3)
9	P(c3)
10	P(g2)
11	F
12	P(c2)
13	P(e1)
14	P(e1)
15	P(d1)
16	P(c1)
17	G
18	F(+)
19	NP
20	G
21	P(b1)
22	P(a1)
23	P(f1)
24	P(b2)
25	P(a2,d2)
26	P(f2)
27	P(hJ)
28	G
29	P(b3)
30	P(b3)
31	P(f3)
32	P(b4)
33	P(f4)
34	P(g4)
35	G
36	NP

EC57



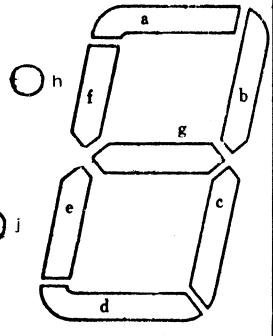
PIN NO.	
1	F(—)
2	P(g)
3	P(f)
4	4G
5	P(e)
6	P(d)
7	3G
8	P(c)
9	Gc
10	P(b)
11	2G
12	P(a)
13	P(i)
14	1G
15	P(h)
16	F(+)

EC58



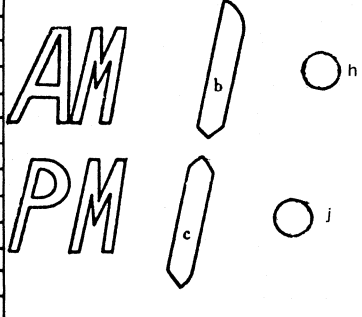
PIN NO.	
1	F
2	F
3	9G
4	P(g)
5	8G
6	P(f)
7	P(e)
8	7G
9	P(d)
10	6G
11	5G
12	4G
13	P(1,2)
14	P(DP)
15	3G
16	P(c)
17	P(b)
18	2G
19	P(a)
20	1G
21	F

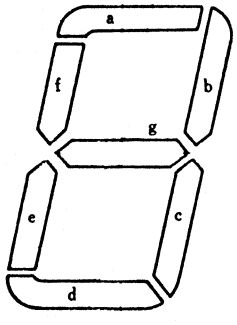
EC59



PIN NO.	
1	F
2	P(h)
3	P(j)
4	p(g4)
5	G
6	P(f4)
7	P(e4)
8	P(a4,d4)
9	P(b4)
10	P(c4)
11	P(f3)
12	P(g3)
13	P(a3)
14	P(b3)
15	P(d3)
16	P(c3)
17	P(e3)
18	G
19	P(f2)
20	P(g2)
21	P(a2,d2)
22	P(b2)
23	P(e2)
24	P(c2)
25	P(f1)
26	P(g1)
27	P(a1)
28	P(b1)
29	P(e1)
30	G
31	P(c1)
32	P(d1)
33	F

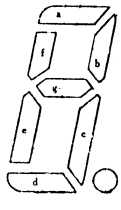
EC60





PIN NO	
1	F
2	P(h)
3	P(j)
4	P(PM)
5	G
6	P(AM)
7	NC
8	NC
9	P(AM)
10	P(b4,c4)
11	P(f3)
12	P(g3)
13	P(a3)
14	P(b3)
15	P(d3)
16	P(c3)
17	P(e3)
18	G
19	P(f2)
20	P(g2)
21	P(a2,d2)
22	P(b2)
23	P(e2)
24	P(c2)
25	p(f1)
26	P(g1)
27	P(a1)
28	P(b1)
29	P(e1)
30	G
31	P(c1)
32	P(d1)
33	F

EC61

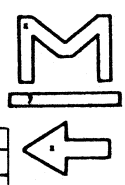


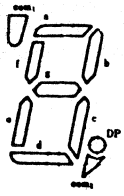
PIN NO.	EC61	EC61a	EC61b
1	F	F	F
2	P(DP)	P(d)	9G
3	8G	8G	P(f)
4	P(c)	P(e)	8G
5	7G	7G	P(g)
6	P(g)	P(g)	7G
7	6G	6G	P(e)
8	P(b)	P(f)	6G
9	5G	5G	P(d)
10	4G	4G	5G
11	P(a)	P(a)	P(DP)
12	3G	3G	4G
13	P(f)	P(b)	P(c)
14	2G	2(G)	3G
15	P(e)	P(c)	P(b)
16	1G	1G	2G
17	P(d)	P(DP)	P(a)
18	F	F	1G
19			F

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

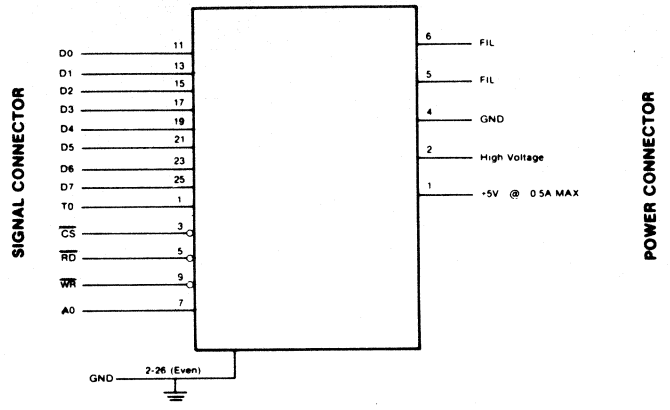
EC62





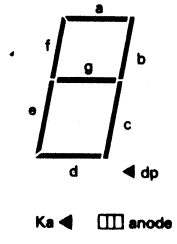
PIN NO.	
1	F
2	13G
3	P(x)
4	12G
5	P(y)
6	11G
7	P(z)
8	P(com 1)
9	10G
10	9G
11	P(f)
12	P(e)
13	8G
14	P(d)
15	7G
16	6G
17	P(com 2)
18	P(DP)
19	5G
20	4G
21	P(c)
22	P(g)
23	3G
24	P(b)
25	2G
26	P(a)
27	1G
28	F

EC63



EC64

Segment Designations



SEGMENT/SYMBOL	PIN NUMBER
a	1
b	2
c	3
d/decimal	4
e	5
f	6
g	7
decimal	8
anode	9
keep alive	10

EC65

Table of Connector/Segment Interconnections

TERM NO.	SEGMENT FUNCTION CHARACTERS 5-45	CURRENT RATIO
5	D.P. Digit 1	0.29
6	a Digit 1	1.04
7	b Digit 1	1.00
8	c Digit 1	1.23
9	d Digit 1	1.05
13	Anode Digit 1	----
14	Anode Digit 1	----
18	e Digit 1	1.15
19	g Digit 1	1.04
20	f Digit 1	0.94
23	Right Keep Alive Anode	----
24	Right Keep Alive	0.03
27	D.P. Digit 2	0.29
28	a Digit 2	1.04
29	b Digit 2	1.00
30	c Digit 2	1.23
31	d Digit 2	1.05
35	Anode Digit 2	----
36	Anode Digit 2	----
40	e Digit 2	1.15
41	g Digit 2	1.04
42	f Digit 2	0.94
44	Anode Colon	----
45	Colon	0.69

TERM NO.	SEGMENT FUNCTION CHARACTERS 50-87	CURRENT RATIO
50	D.P. Digit 3	0.29
51	a Digit 3	1.04
52	b Digit 3	1.00
53	c Digit 3	1.23
54	d Digit 3	1.05
58	Anode Digit 3	----
59	Anode Digit 3	----
63	e Digit 3	1.15
64	g Digit 3	1.04
65	f Digit 3	0.94
68	Left Keep Alive Anode	----
69	Left Keep Alive	0.03
71	Plus (top vert.)	0.48
73	D.P. Digit 4	0.29
74	a Digit 4	1.04
75	b Digit 4	1.00
76	c Digit 4	1.23
77	d Digit 4	1.05
80	Anode Digit 4	----
81	Anode Digit 4	----
84	Plus (bot. vert.)	0.48
85	e Digit 4	1.15
86	g Digit 4	1.04
87	f Digit 4	0.94

EC66

Connector/Segment Interconnections

Terminal No.	Segment/Function
1	a
2	Anode 1
3	b
4	Anode 1
5	c
6	K.A. Anode (right)
7	K.A. Cathode (right)
8	Anode 2
9	
10	Dec. Pt.
11	
12	Anode 2
13	Comma
14	Anode 3
15	
16	Anode 3
17	
18	
19	
20	

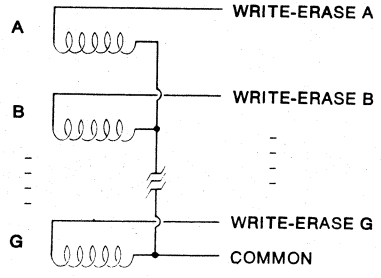
Terminal No.	Segment/Function
21	
22	
23	
24	Anode 4
25	
26	Anode 4
27	
28	
29	
30	Anode 5
31	K.A. Cathode (left)
32	Anode 5
33	d
34	K.A. Anode (left)
35	e
36	Anode 6
37	g
38	Anode 6
39	f

48. SCHEMATIC DRAWINGS

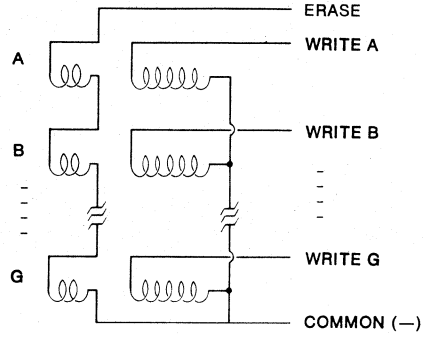
IN DRAWING NUMBER SEQUENCE

EC67

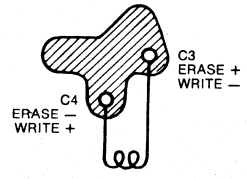
NOTE: The erase pin is not used on this type. Currents must be reversed for erasing.



EC68

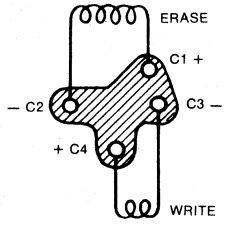


EC69



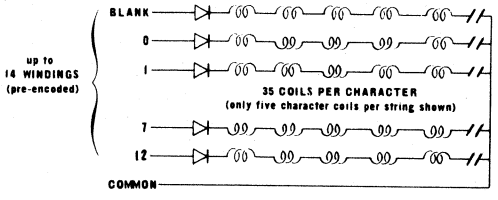
(TYPICAL 7 COILS)

EC70



(TYPICAL 7 COILS)

EC71



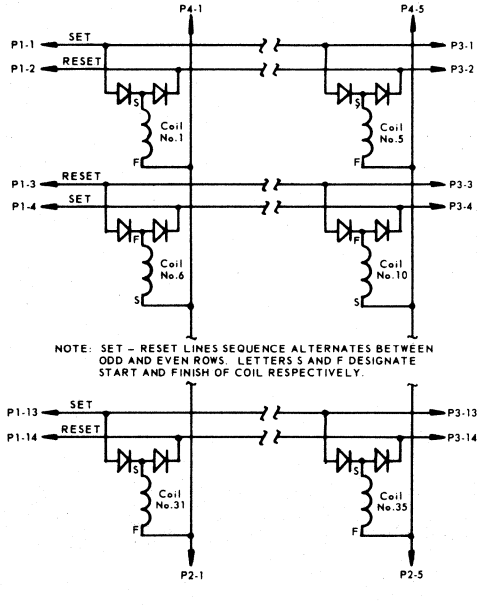
ELECTRICAL SCHEMATIC
(shown with diodes common negative)

COIL CONFIGURATIONS

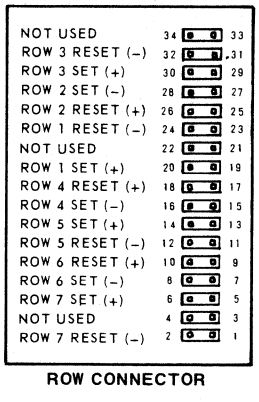
TYPE	DCP	DCN	NDP	NDN
COIL ELECTRICAL DIAGRAM	COMMON / SIGNAL	COMMON / SIGNAL	COMMON	COMMON
COIL ASSEMBLY TYPE	WITH DIODES COMMON POSITIVE	WITH DIODES COMMON NEGATIVE	WITHOUT DIODES COMMON POSITIVE	WITHOUT DIODES COMMON NEGATIVE

EC72

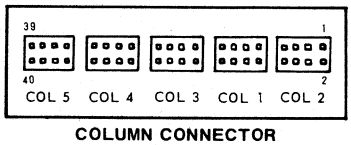
COIL CONFIGURATION TYPE SC



NOTE: SET – RESET LINES SEQUENCE ALTERNATES BETWEEN ODD AND EVEN ROWS. LETTERS S AND F DESIGNATE START AND FINISH OF COIL RESPECTIVELY.



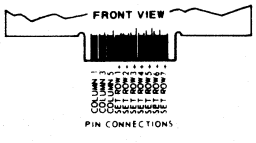
ROW CONNECTOR



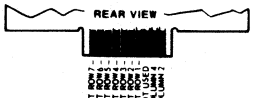
COLUMN CONNECTOR

FACING DISPLAY SIDE OF MODULE
COLUMN 1 IS ON EXTREME LEFT
COLUMN 5 IS ON EXTREME RIGHT

EC73

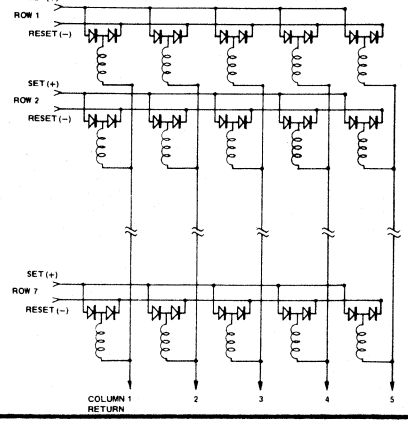


PIN CONNECTIONS

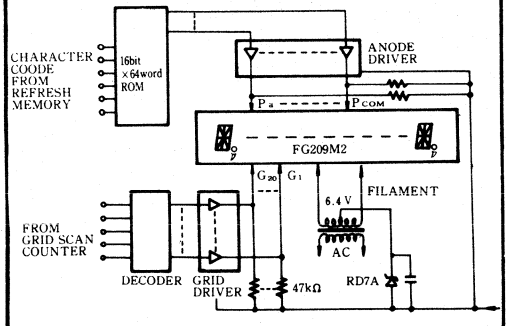


PIN CONNECTIONS

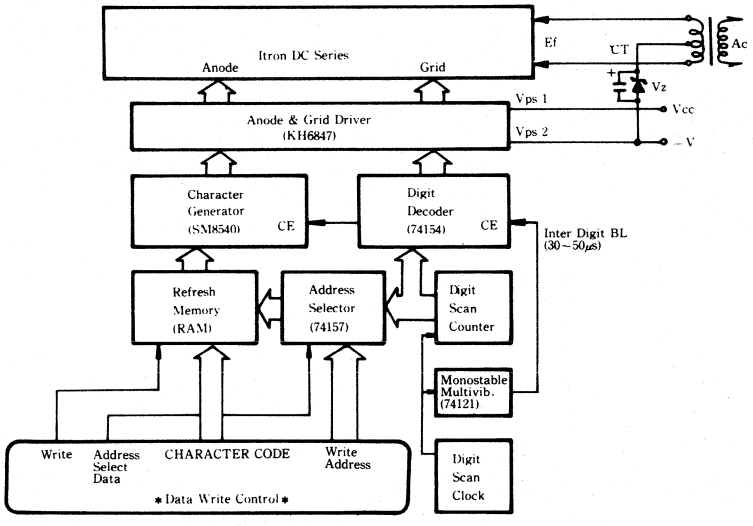
COIL CONFIGURATION TYPE SC



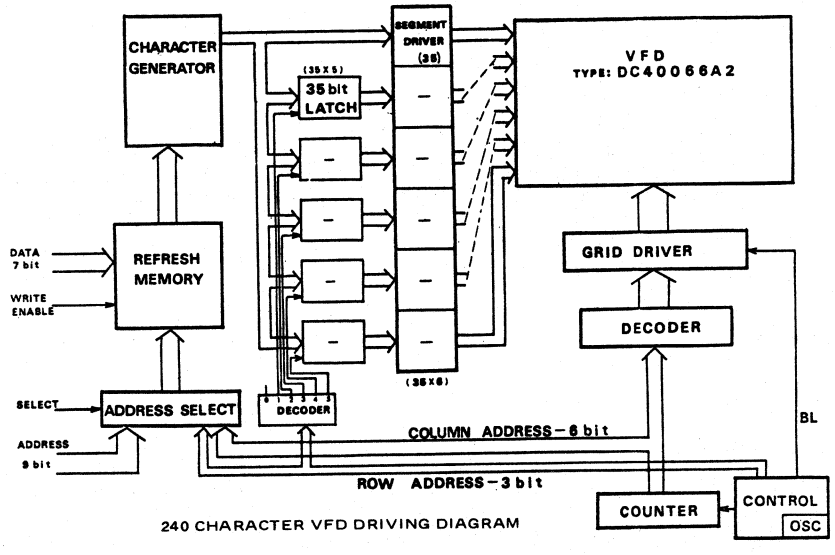
EC74



EC75

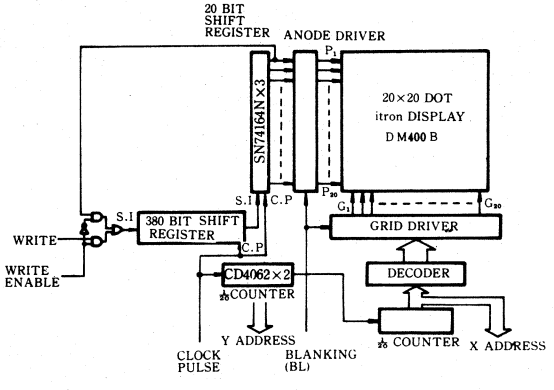


EC76

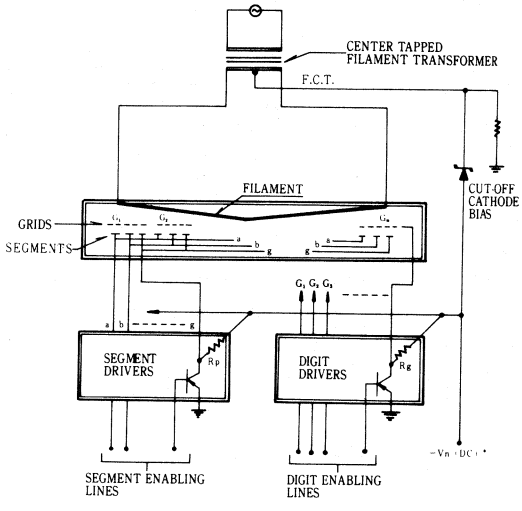


240 CHARACTER VFD DRIVING DIAGRAM

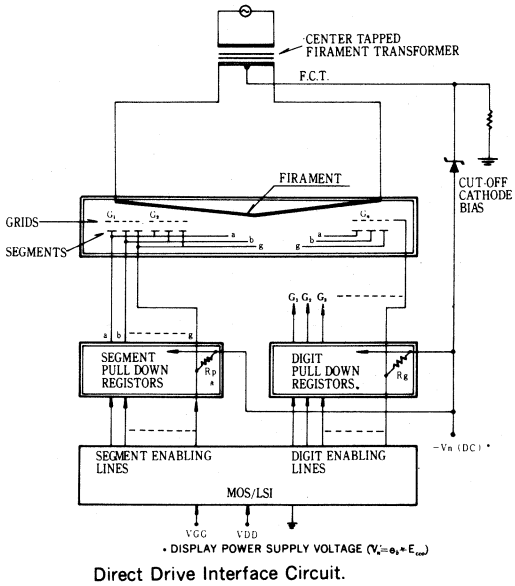
EC77



EC78

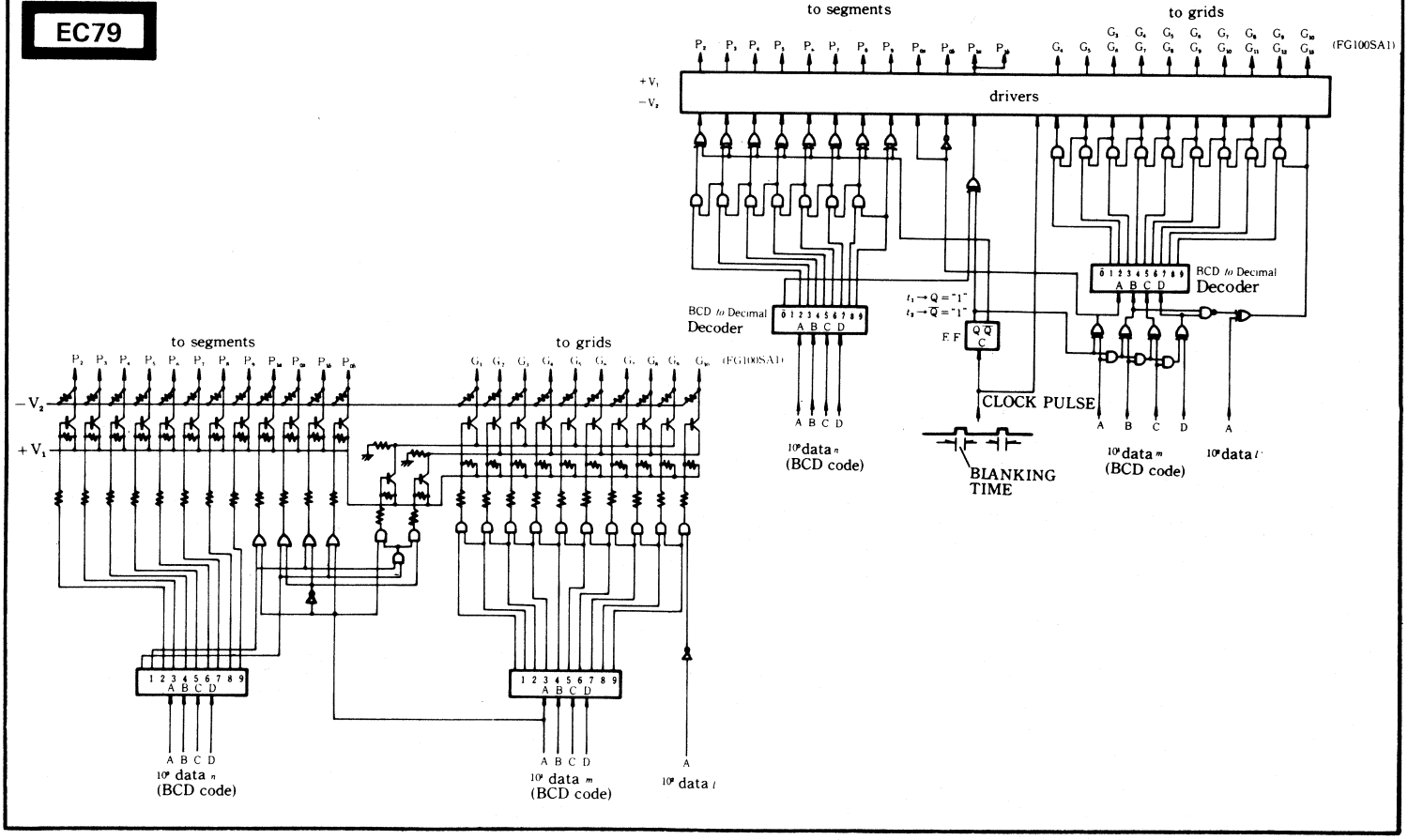


Transistor Drive Interface Circuit.



Direct Drive Interface Circuit.

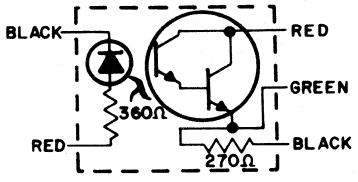
EC79



48. SCHEMATIC DRAWINGS

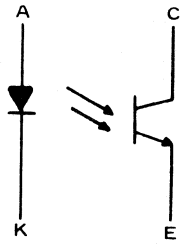
IN DRAWING NUMBER SEQUENCE

FA1

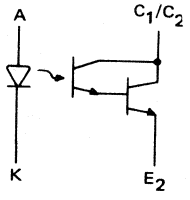


FA2

	A	K	C	E
FA2	1	2	4	3
FA2a	3	4	1	2
FA2b	Red	Black	Blue	Yellow
FA2c	Red	Black	White	Green

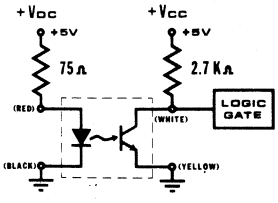


FA3

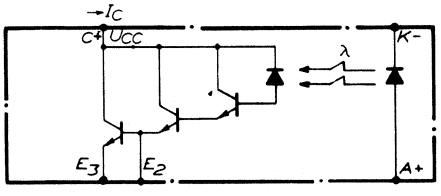


	A	K	C1/C2	E2
FA3	1	2	4	3
FA3a	2	1	4	3
FA3b	RED	Black	Blue	Yellow

FA4

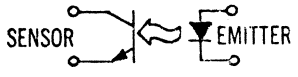


FA5

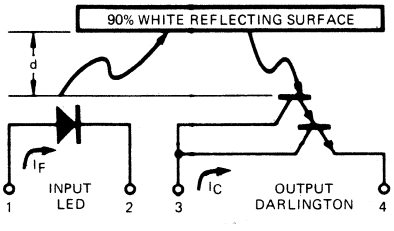


	PIN			
	A	B	C	D
FA15	1	4	2	3
FA15a	White	Green	Red	Black

FA6

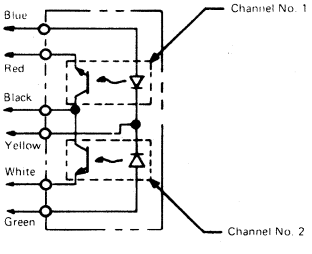


FA8

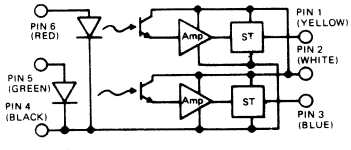


	A	B	C	D
FA8	1	2	3	4
FA8a	Red	Black	White	Green

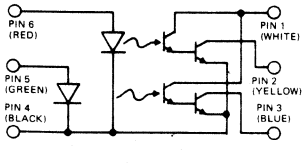
FA9



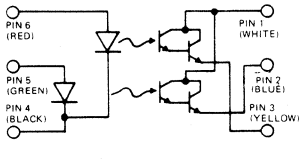
FA10



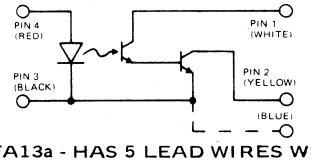
FA11



FA12



FA13

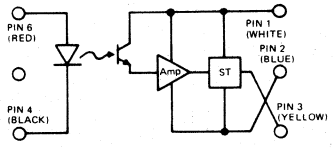


FA13a - HAS 5 LEAD WIRES WITH THE GROUNDS ISOLATED.

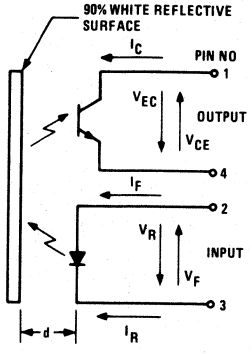
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

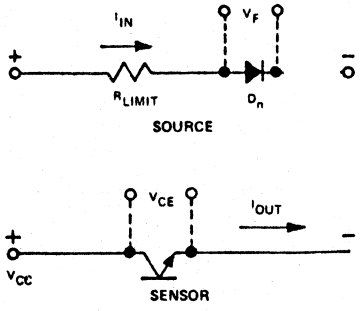
FA14



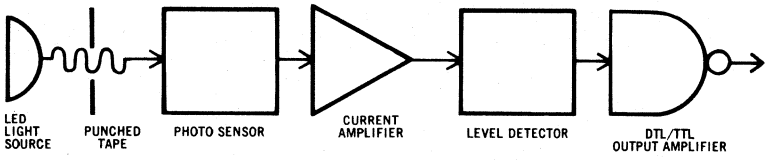
FA15



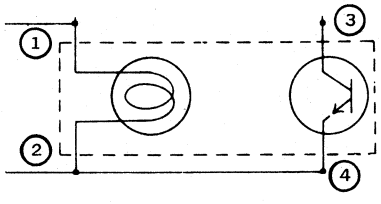
FA16



FA17

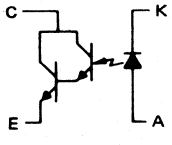


FA18



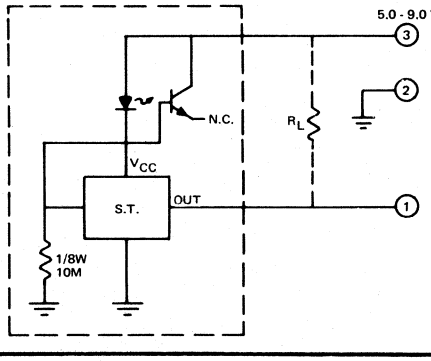
	PIN NO			
	1	2	3	4
FA18	White	White	Red	Black
FA18a	Green	White	Red	Black
FA18b	Blue	White	Red	Black

FA20

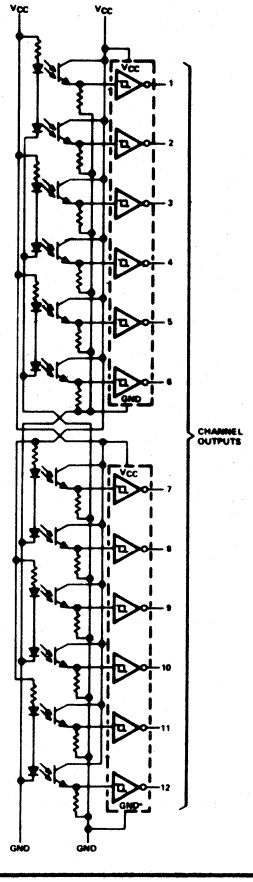


	E	C	A	K
FA20	2	1	3	4
FA20a	1	4	2	3
FA20b	4	3	1	2
FA20c	3	4	1	2

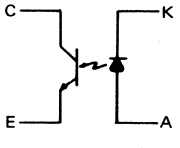
FA21



FA22

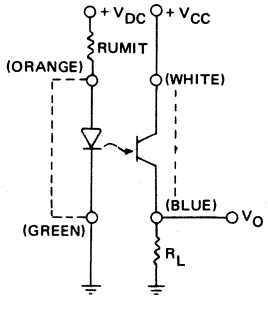


FA23



	A	K	E	C
FA23	3	4	2	1
FA23a	1	2	4	3

FA24



48. SCHEMATIC DRAWINGS

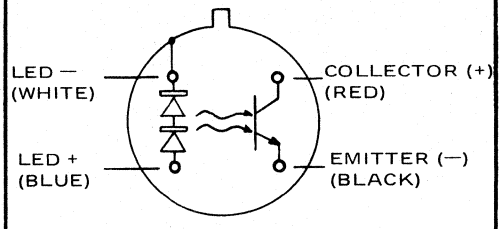
IN DRAWING NUMBER SEQUENCE

FA25

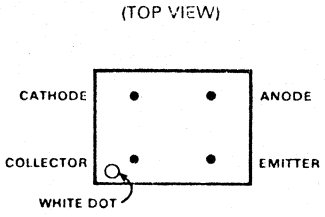
ELECTRICAL CONNECTIONS

Connection	Wire Color Code
LED (+5 VDC)	White/Orange
LED (Gnd)	White/Green
Sensor (+5 VDC)	Red/Gray
Sensor (Gnd)	Black
Channel 1 output	Brown
Channel 2 output	Red
Channel 3 output	Orange

FA28

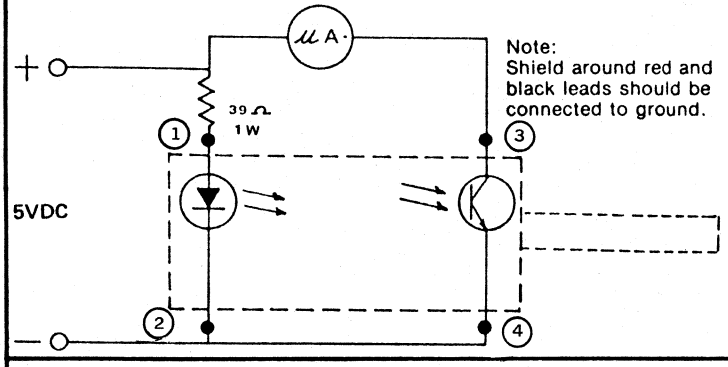


FA29

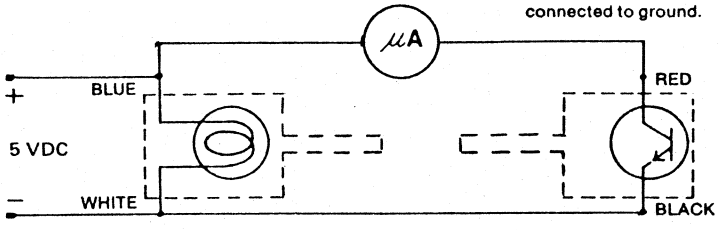


FA30

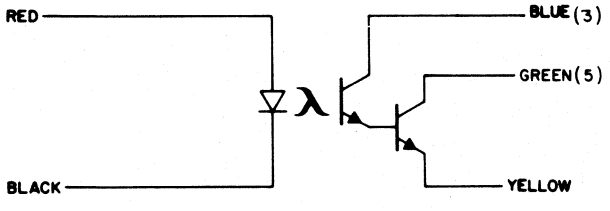
	PIN NO 1	2	3	4
FA30	Blue	White	Red	Black
FA30a	Green	White	Red	Black



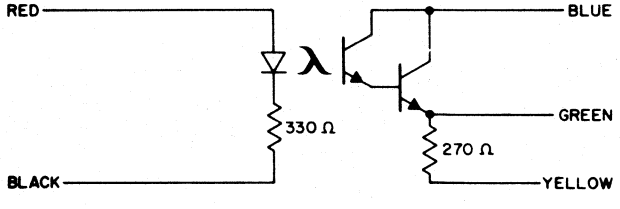
FA31



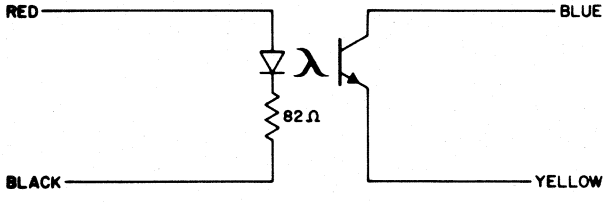
FA32



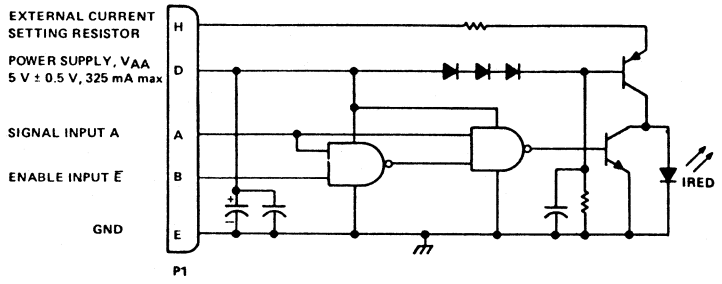
FA33



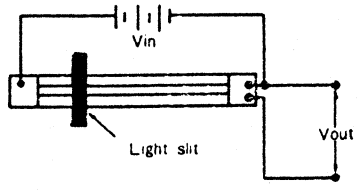
FA34



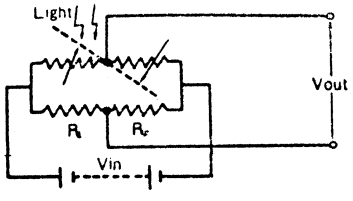
FB1



FB4



FB5



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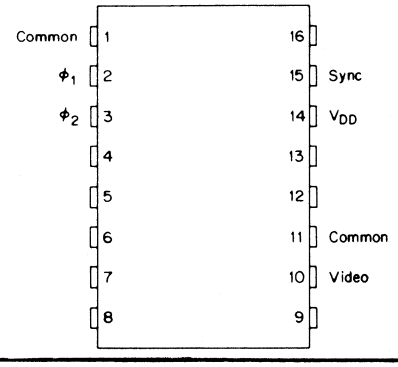
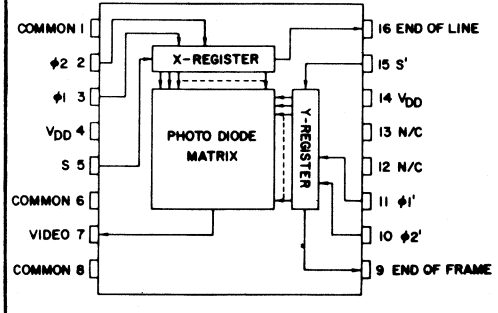


FB7



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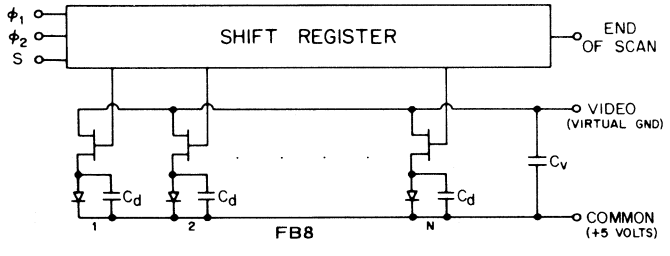
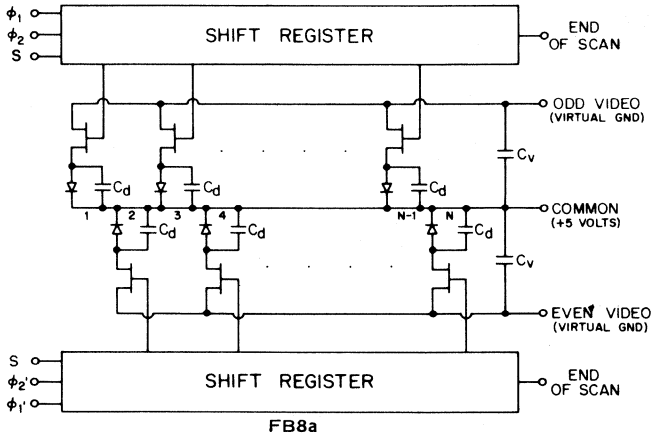
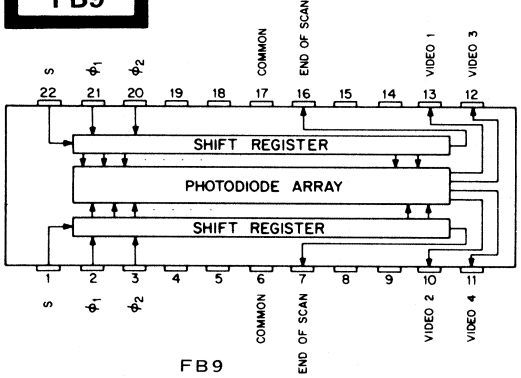


FB8

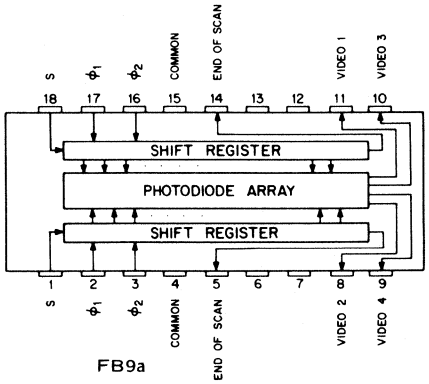


FB8a

FB9

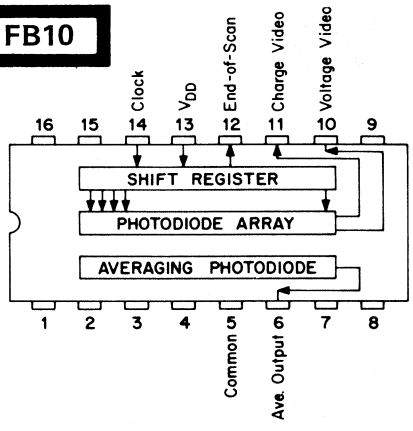


FB9



FB9a

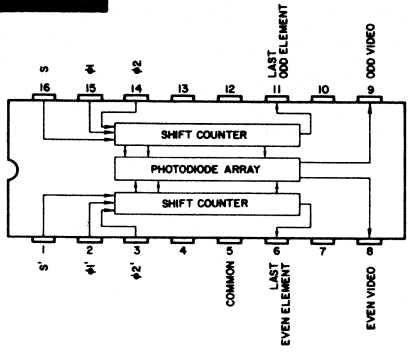
FB10



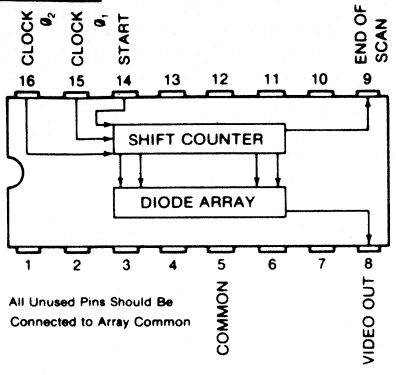
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

FB11

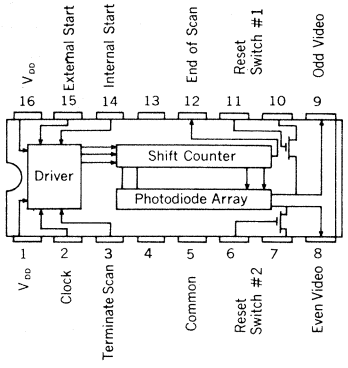


FB12

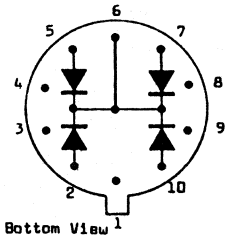


All Unused Pins Should Be Connected to Array Common

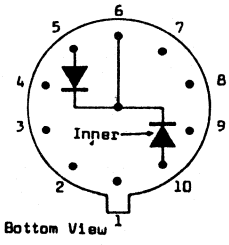
FB13



FB15



FB16



FB17

Pin no.	Function
1	N.C.
2	Video Z }
3	Video Y } See Below
4	Video X }
5 – 7	N.C.
8 – 9	Substrate + ve bias
10	Scan Start input
11	Ground (0V)
12	N.C.
13	Clock Pulse Ø2 Input
14	Clock Pulse Ø1 Input
15	Scan Output (normally connected to 0V)
16	Ground (0V)

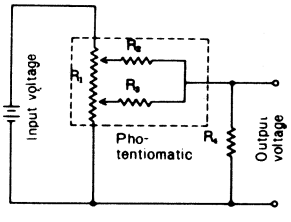
Video X Voltage Sampling Output
Video Y Voltage Sampling Current Output
Video Z Recharge Sampling Output

FB18

Pin no.	Function
1	N.C.
2	Video Z }
3	Video Y } See Below
4	Video X }
5 – 11	N.C.
12, 13	Substrate + ve bias
14	Scan Start Input
15	Clock Pulse Ø2 Input
16	N.C.
17	Ground (0V)
18, 19	N.C.
20	Ground (0V)
21	N.C.
22	Clock Pulse Ø1 Input
23	Scan Output (normally connected to 0V)
24	Ground (0V)

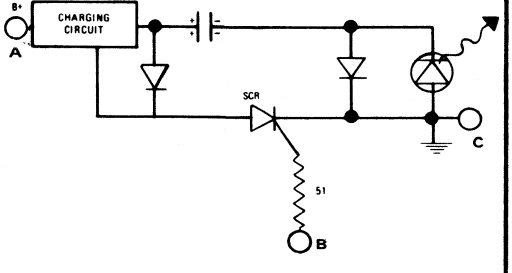
Video X Voltage Sampling Output
Video Y Voltage Sampling Current Output
Video Z Recharge Sampling Output

FB23

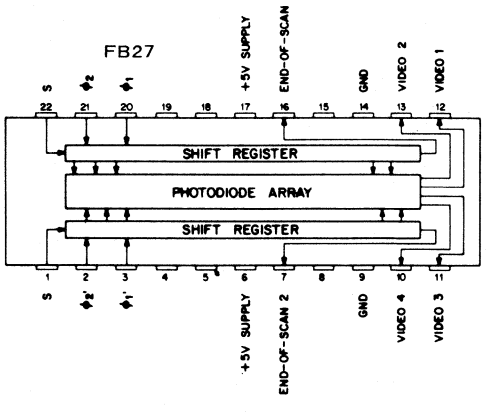


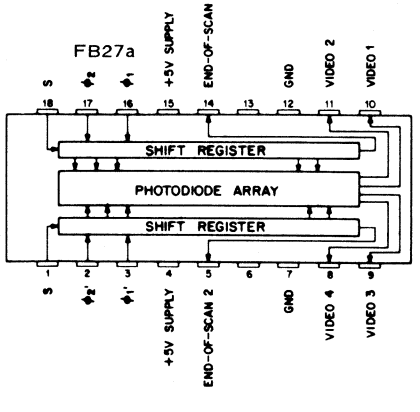
FB24

	A	B	C
FB24	PIN14	PIN8	PIN7
FB24a	PIN22	PIN16	PIN7
FB24b	PIN20	PIN14	PIN9

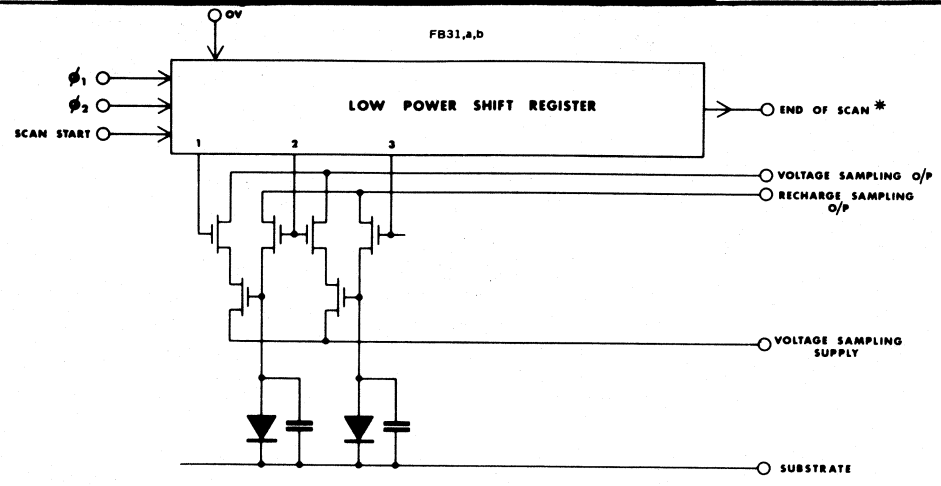


FB27





FB31



FB31,a

Pin No	Function
1	NC
2	Recharge Sampling o/p
3	Voltage sampling supply
4	Voltage sampling o/p
5-7	NC
8-9	Substrate +ve bias
10	Scan start I/p
11	Earth (0V)
12	NC
13	ϕ2 clock
14	ϕ1 clock
15	End of Scan
16	Earth (0V)

FB31b

Pin No	Function
1	NC
2	Recharge sampling o/p
3	Voltage sampling supply
4	Voltage sampling o/p
5-11	NC
12-13	Substrate +ve bias
14	Scan start I/p
15	ϕ 2 clock
16	NC
17	Earth (0V)
18-19	NC
20	Earth
21	NC
22	ϕ 1 clock
23	End of Scan
24	Earth (0V)

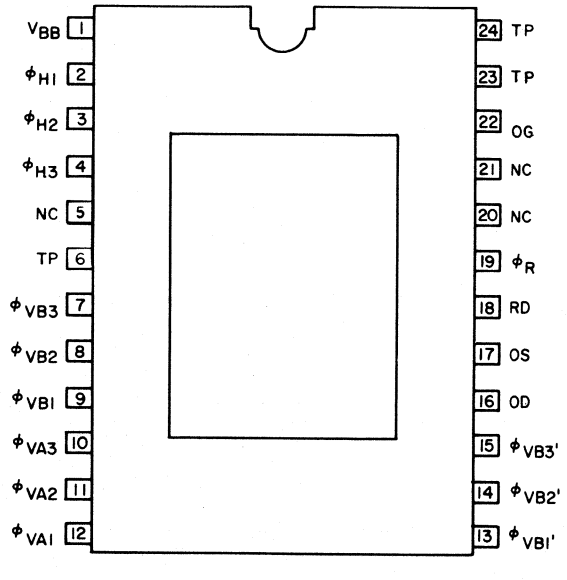
FB31c

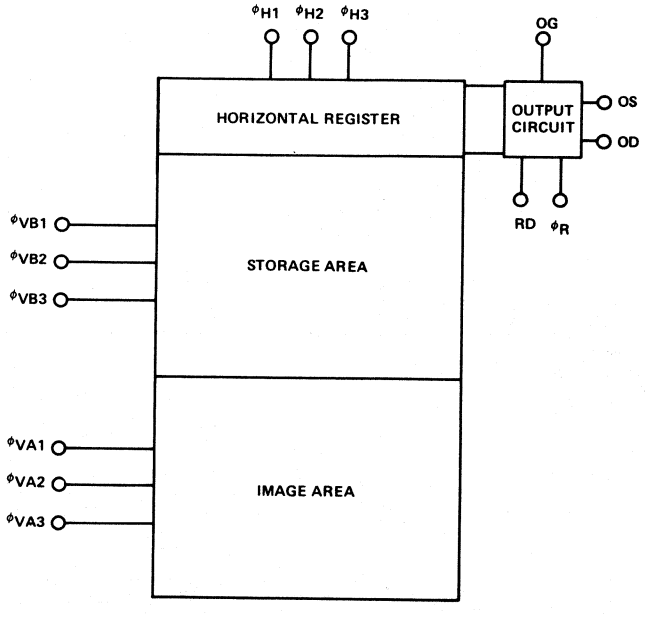
Pin No	Function
1 (Tag)	0 Volts
2	NC
3	Recharge Sampling o/p (-15V)
4	Voltage Sampling Supply (-15V)
5	Voltage Sampling o/p
6	Substrate (+ 5V)
7	Scan Start i/p
8	Ø1 Clock
9	Scan Out
10	Ø2 Clock

FB31d

Pin No	Function
1 (Tag)	Scan Start i/p
2	Ø1 Clock
3	Ø2 Clock
4	Scan Out
5	0 Volts
6	Substrate (+ 5V)
7	Recharge Sampling o/p (-15V)
8	Voltage Sampling Supply (-15V)
9	Voltage Sampling o/p
10	NC

FB32





FB33

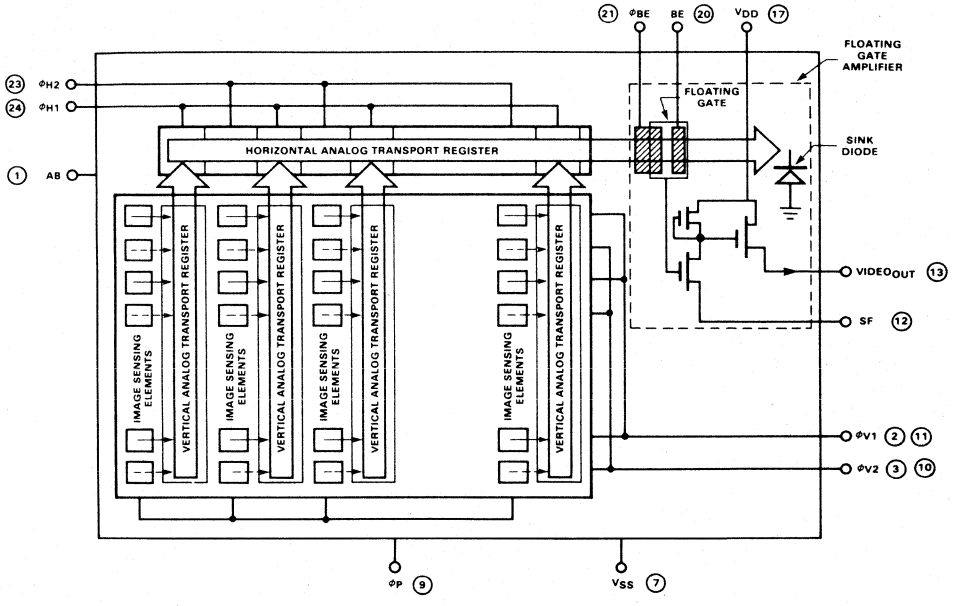
FB33

1. VIDEO
4. COMMON
8. END OF SCAN
9. ϕ 1
10. ϕ 2
15. V_{DD}
16. START PULSE

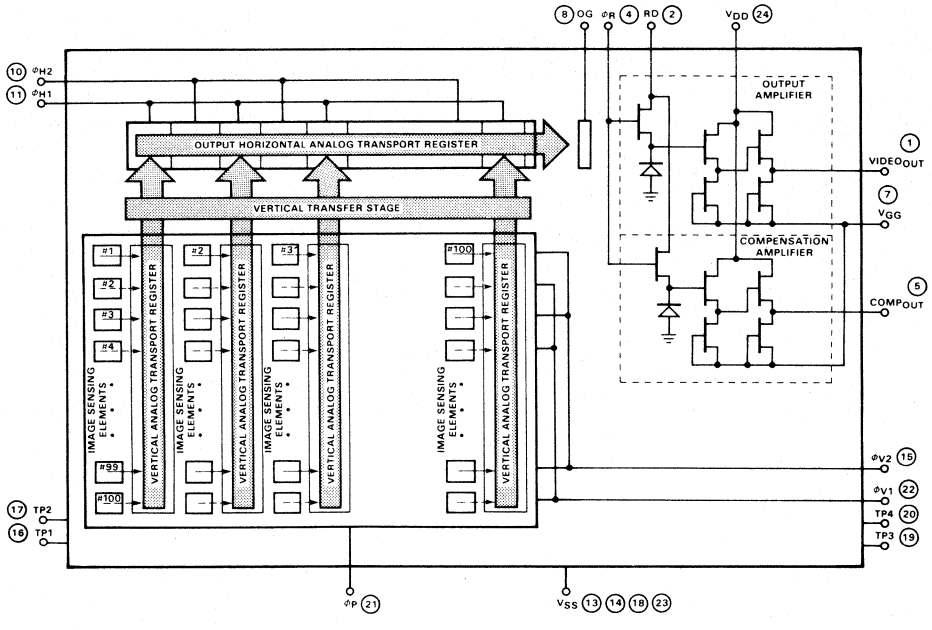
FB33a

9. VIDEO
11. END OF SCAN
12. COMMON
14. ϕ 1
15. ϕ 2
16. START PULSE

FB34



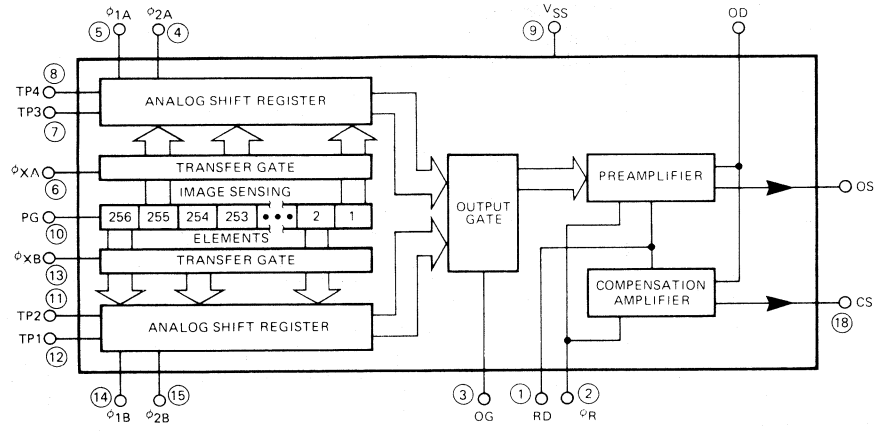
FB35



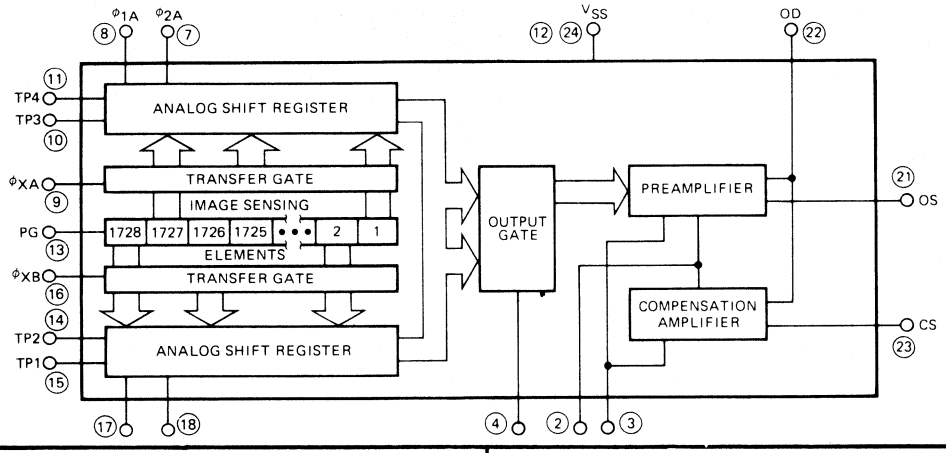
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

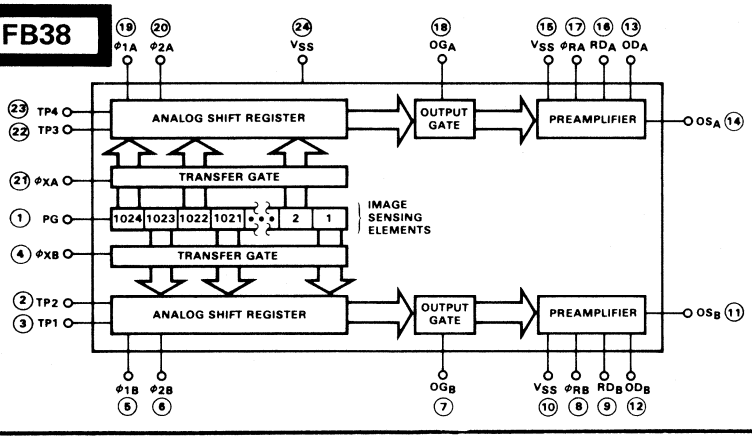
FB36



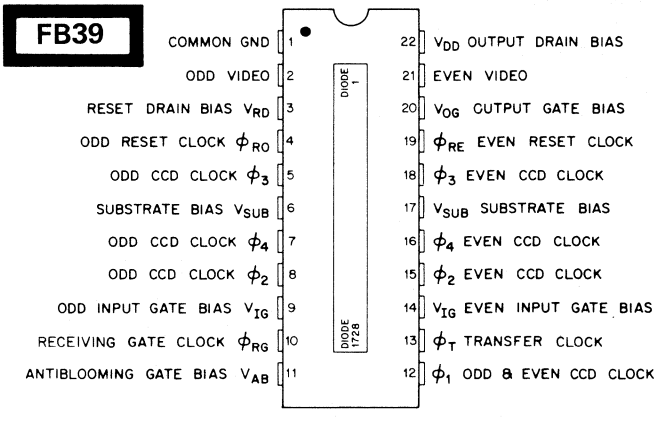
FB37



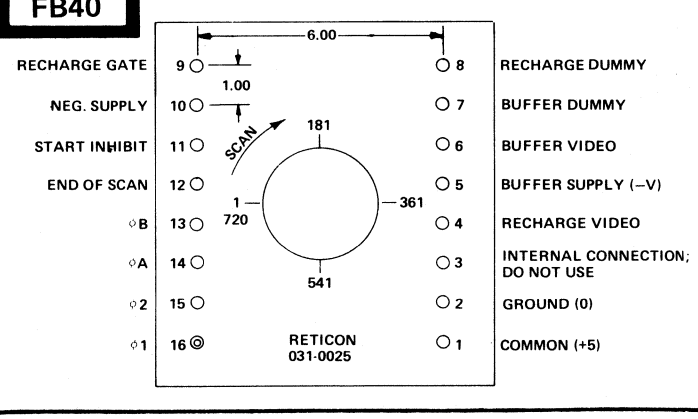
FB38

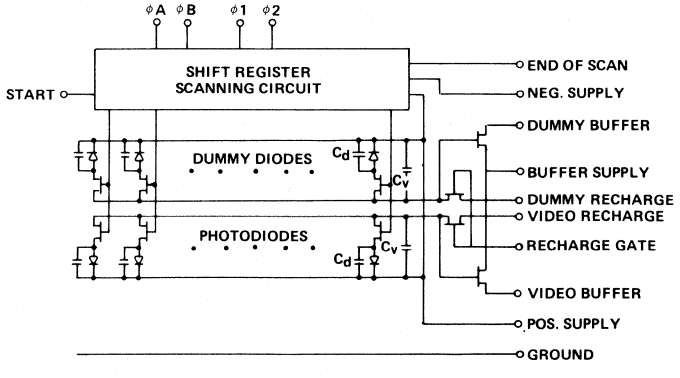


FB39



FB40

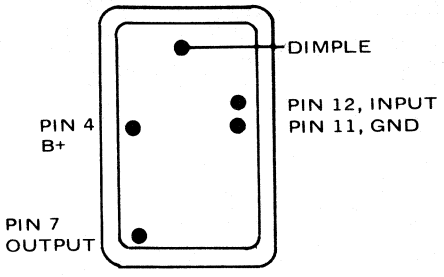




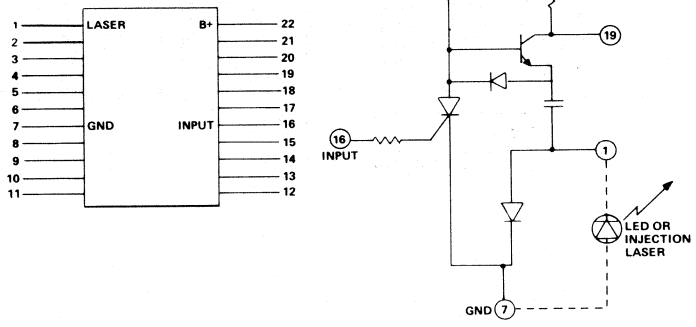
48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

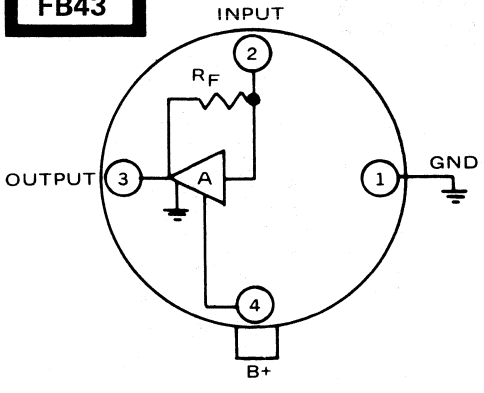
FB41



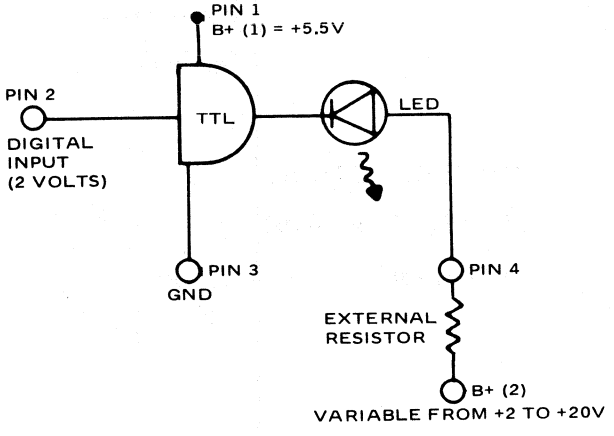
FB42



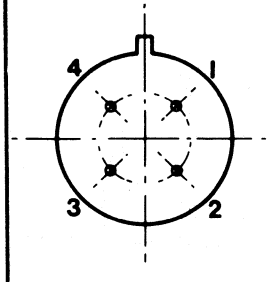
FB43



FB44

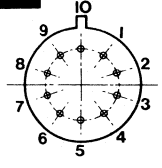


FB45



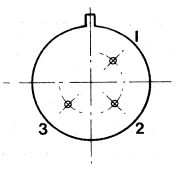
1. O/P
2. V^+
3. V^-
4. EARTH (+CAN)

FB46



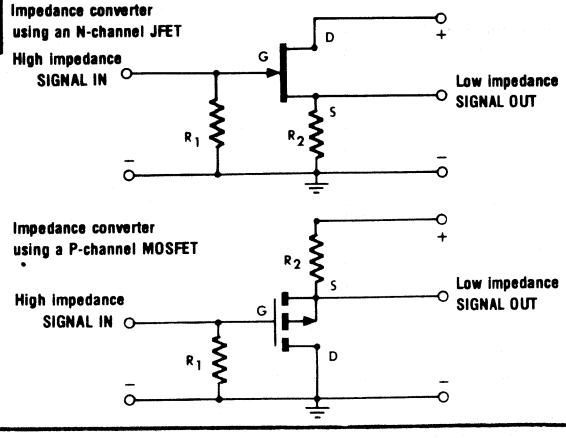
1. N.C.
2. EARTH
3. N.C.
4. CAN (ISOLATED)
5. V^-
6. O/P(a)
7. O/P(b)
8. V^+
9. DIODE BIAS (+ve)
10. DIODE DECOUPLING POINT

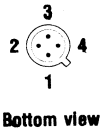
FB47



1. DIODE CATHODE
2. DIODE ANODE
3. CAN (ISOLATED)

FB48

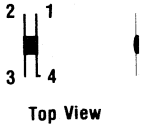




Bottom view

	N-ch. JFET	P-ch. MOSFET
1	S	D
2	D	G
3	G	+
4	–	S

FB48

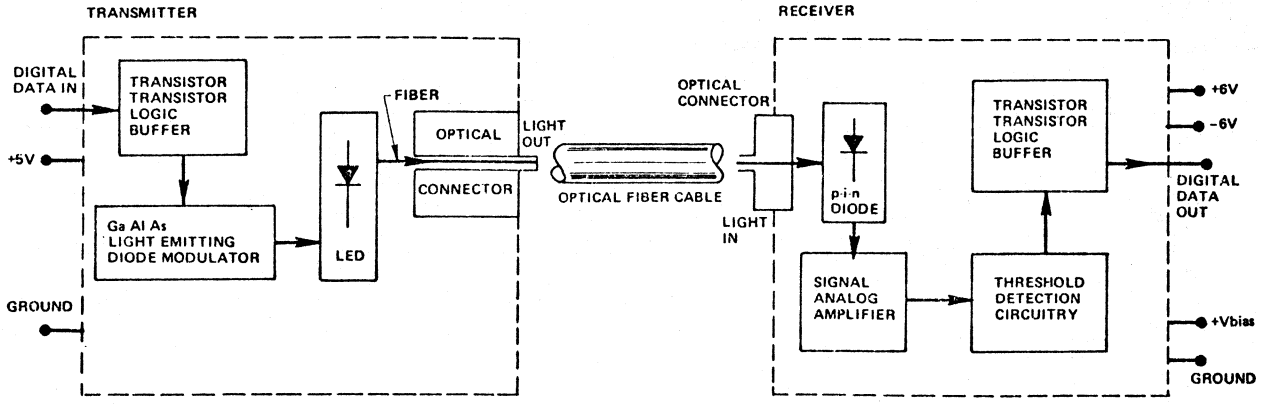


Top View

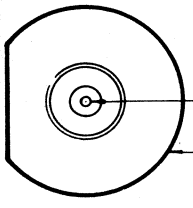
	N-ch. JFET	P-ch. MOSFET
1	–	D
2	D	+
3	S	S
4	G	G

FB48a

FB49

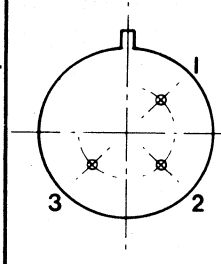


FB50



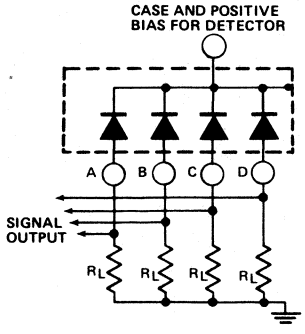
COAXIAL HEADER.
CENTRE PIN (-ve)
CASE (+ve)

FB51



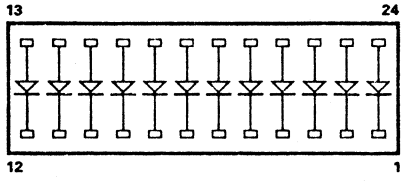
1. DIODE ANODE
2. DIODE CATHODE
3. CAN (ISOLATED)

FB52



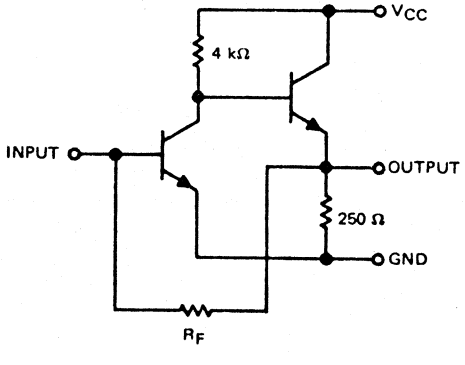
FB54

(BOTTOM VIEW)

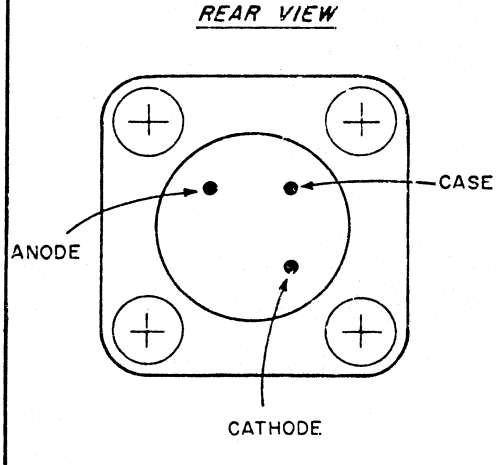


PIN		PIN	
1	CA 1	13	AN 12
2	CA 2	14	AN11
3	CA 3	15	AN 10
4	CA 4	16	AN 9
5	CA 5	17	AN 8
6	CA 6	18	AN 7
7	CA 7	19	AN 6
8	CA 8	20	AN 5
9	CA 9	21	AN 4
10	CA 10	22	AN 3
11	CA 11	23	AN 2
12	CA 12	24	AN 1

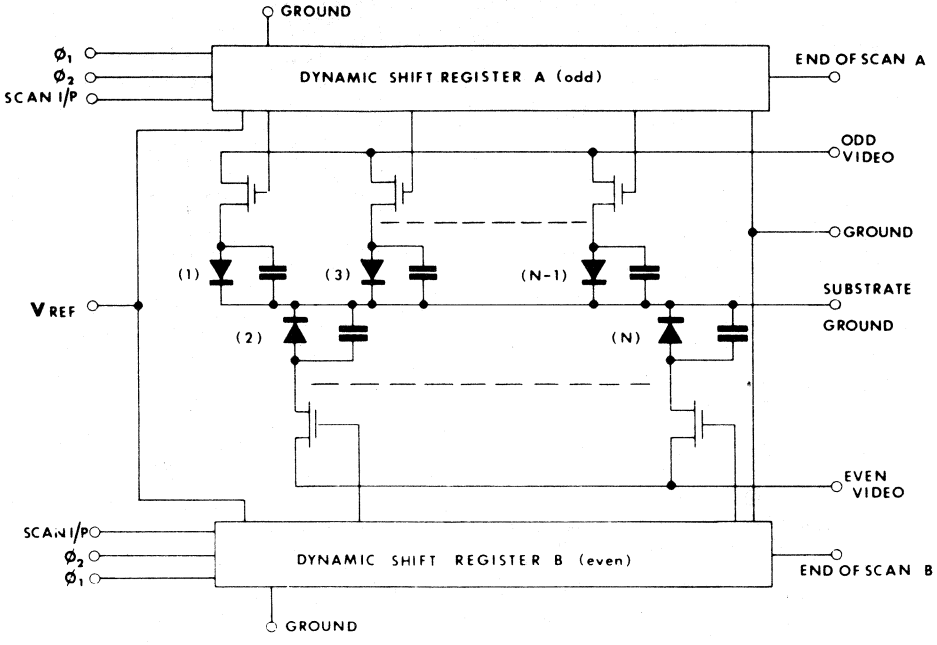
FB55



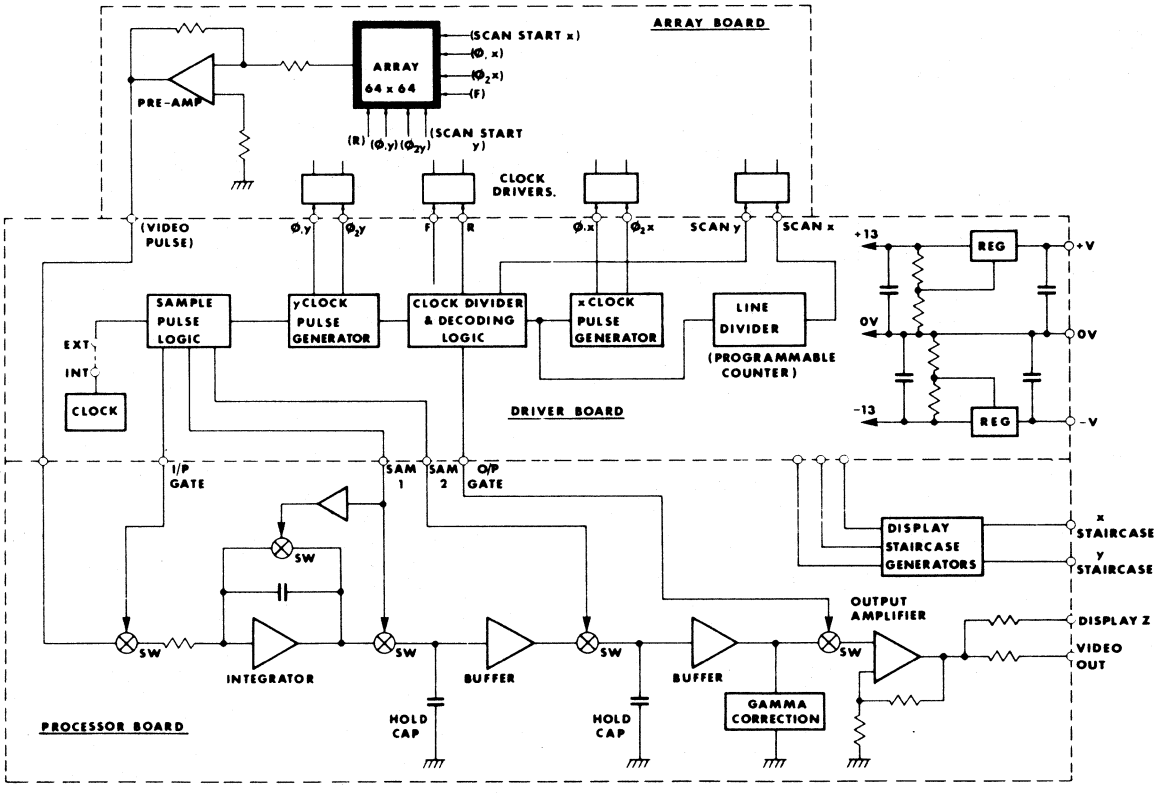
FB56



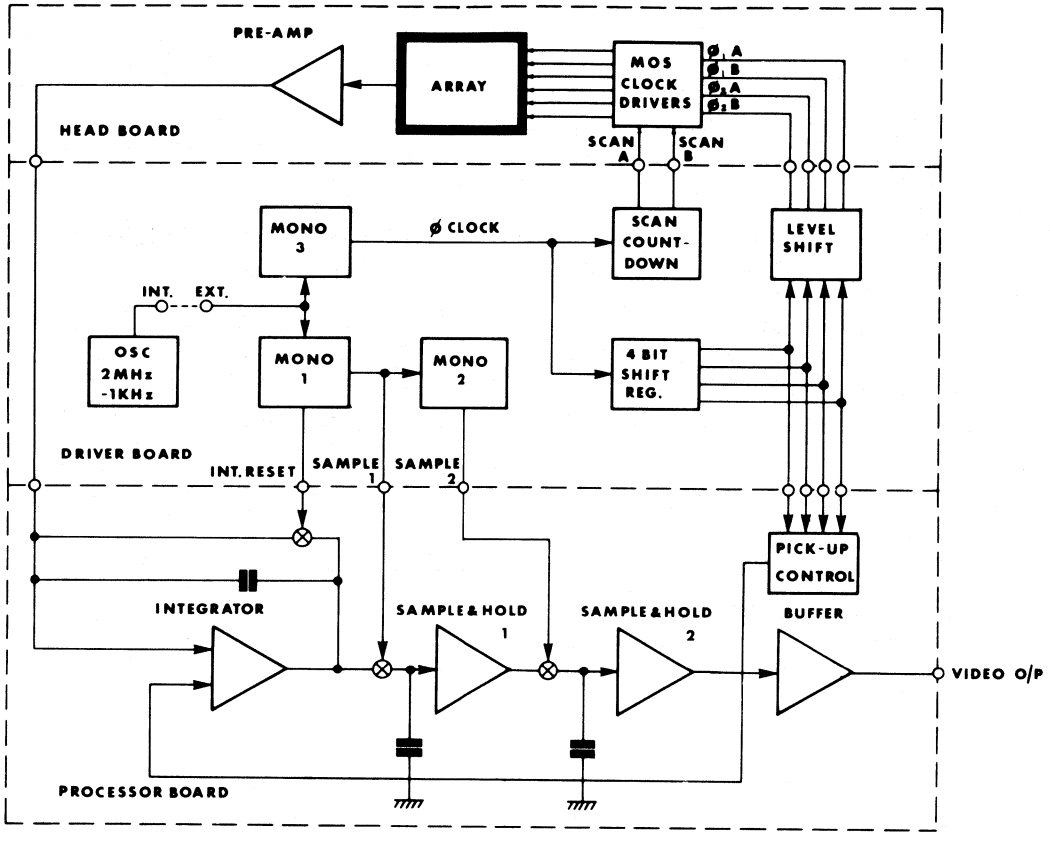
FB57


GROUND
Ø1
Ø2
SCAN I/P
DYNAMIC SHIFT REGISTER A (odd)
END OF SCAN A
ODD VIDEO
GROUND
(1)
(3)
(N-1)
VREF
(2)
(N)
SUBSTRATE
GROUND
EVEN VIDEO
SCAN I/P
Ø2
Ø1
DYNAMIC SHIFT REGISTER B (even)
END OF SCAN B
GROUND

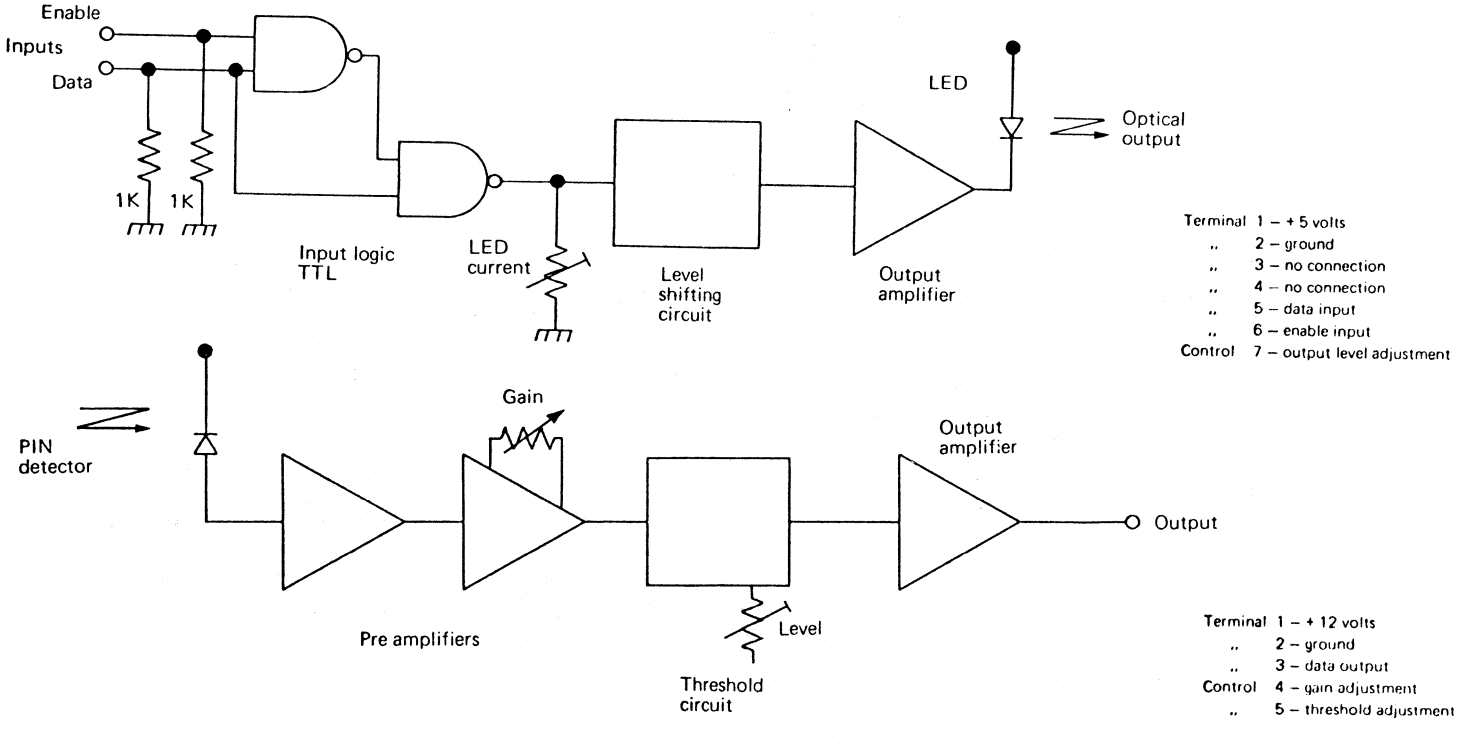
FB59


ARRAY BOARD
ARRAY 64 x 64
(SCAN START x)
(Ø, x)
(Ø2x)
(F)
PRE-AMP
(R) (Ø,y) (Ø2y)
(SCAN START y)
CLOCK DRIVERS.
(VIDEO PULSE)
Ø,y
Ø2y
F
R
Ø,x
Ø2x
SCAN y
SCAN x
+13
REG
+V
0V
0V
-13
REG
-V
SAMPLE PULSE LOGIC
yCLOCK PULSE GENERATOR
CLOCK DIVIDER & DECODING LOGIC
xCLOCK PULSE GENERATOR
LINE DIVIDER
(PROGRAMMABLE COUNTER)
EXT
INT
CLOCK
DRIVER BOARD
I/P GATE
SAM 1
SAM 2
O/P GATE
DISPLAY STAIRCASE GENERATORS
x STAIRCASE
y STAIRCASE
SW
OUTPUT AMPLIFIER
DISPLAY Z
VIDEO OUT
SW
INTEGRATOR
SW
BUFFER
SW
BUFFER
SW
HOLD CAP
HOLD CAP
GAMMA CORRECTION
PROCESSOR BOARD

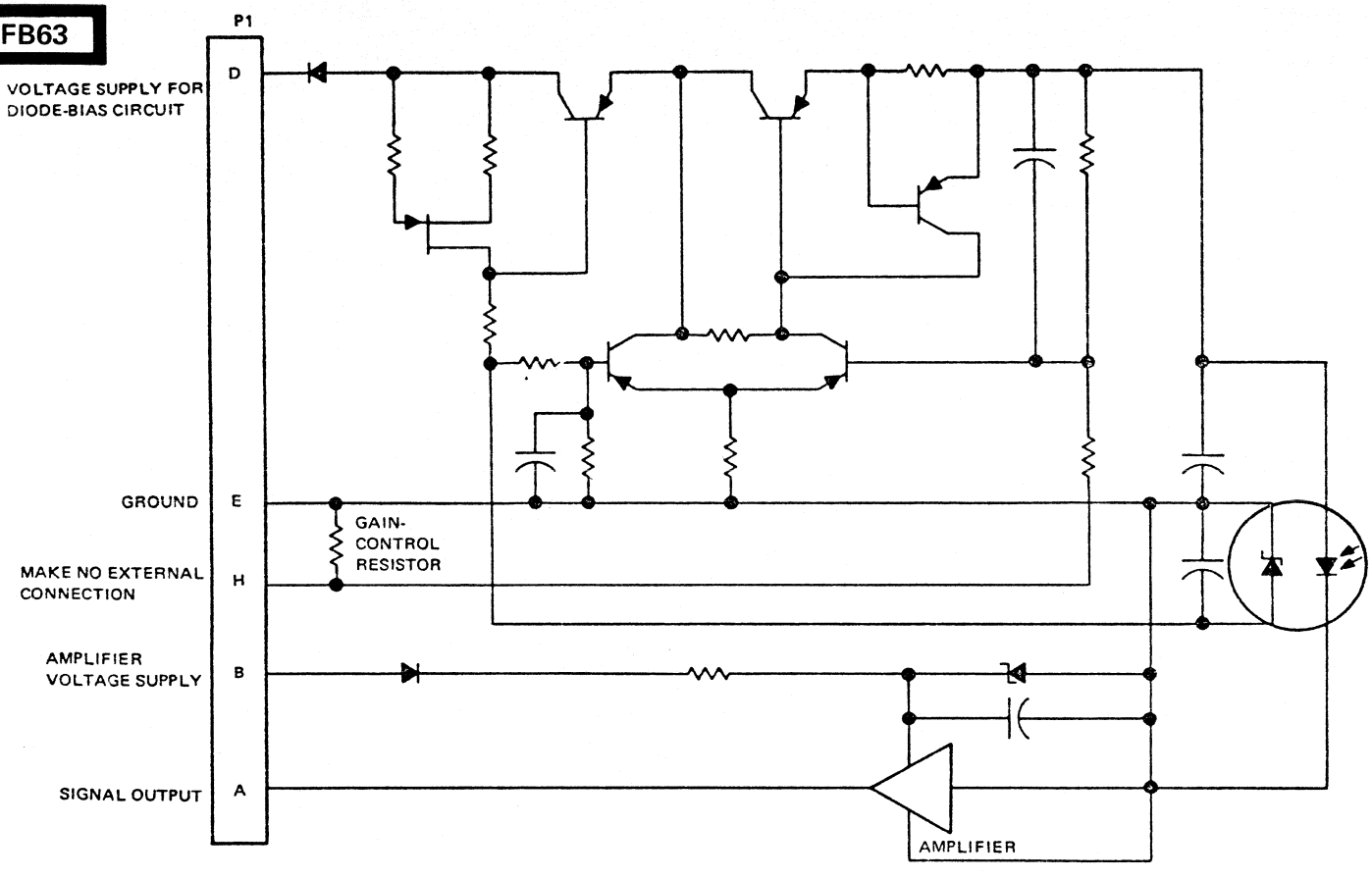
FB60


PRE-AMP
ARRAY
MOS CLOCK DRIVERS
HEAD BOARD
SCAN A
SCAN B
MONO 3
ø CLOCK
SCAN COUNT-DOWN
LEVEL SHIFT
INT.
EXT.
OSC 2MHz -1KHz
MONO 1
MONO 2
4 BIT SHIFT REG.
DRIVER BOARD
INT. RESET
SAMPLE 1
SAMPLE 2
PICK-UP CONTROL
INTEGRATOR
SAMPLE & HOLD 1
SAMPLE & HOLD 2
BUFFER
VIDEO O/P
PROCESSOR BOARD

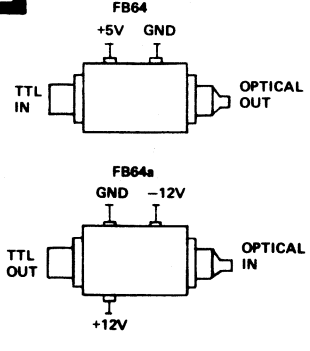
FB61


Enable
Inputs
Data
1K
1K
Input logic TTL
LED current
Level shifting circuit
Output amplifier
LED
Optical output
Terminal 1 – + 5 volts
,, 2 – ground
,, 3 – no connection
,, 4 – no connection
,, 5 – data input
,, 6 – enable input
Control 7 – output level adjustment
PIN detector
Gain
Output amplifier
Output
Pre amplifiers
Level
Threshold circuit
Terminal 1 – + 12 volts
,, 2 – ground
,, 3 – data output
Control 4 – gain adjustment
,, 5 – threshold adjustment

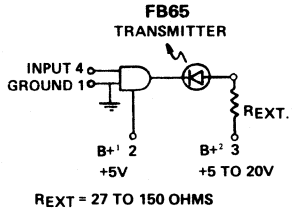
FB63



FB64

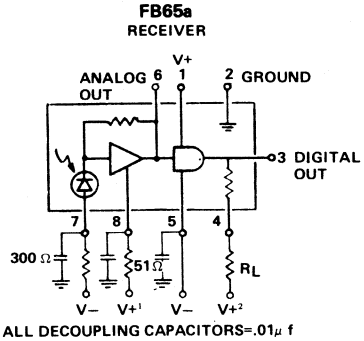


FB65



REXT = 27 TO 150 OHMS

FOR TRANSMITTER "FAIL-SAFE" OPERATION, INSERT 1kΩ RESISTOR BETWEEN PINS 2 AND 4.



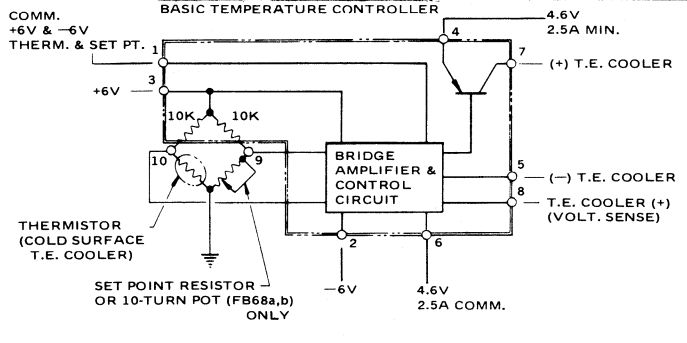
ALL DECOUPLING CAPACITORS=.01μ f

RL TO BE SET SUCH THAT 5V IS APPLIED TO PIN 4. (CIRCUIT DRAWS 13 mA AT PIN 4).

FB67

pin 3 (case)

FB68



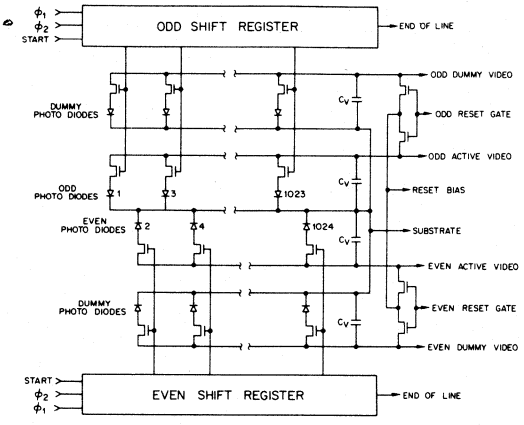
NOTES: THE FOLLOWING CUSTOMER FURNISHED POWER SUPPLIES ARE REQUIRED TO OPERATE FB68 AND FB68a.

A. FOR INPUT POWER TO PASS TRANSISTOR: +4 TO +6V @ 2.5 AMPS MIN. 100mV RIPPLE (MAX.)
B. FOR INPUT POWER TO AMPLIFIER AND CONTROL CIRCUIT: ±6V @ 25mAMPS AND 10mV RIPPLE (MAX.)

48. SCHEMATIC DRAWINGS

IN DRAWING NUMBER SEQUENCE

FB69

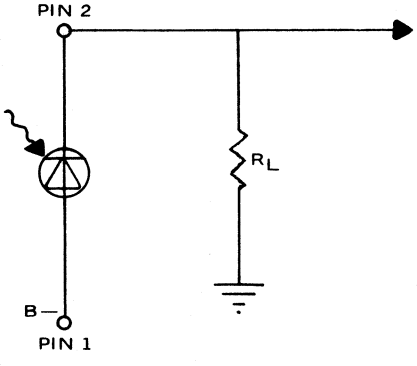


FB70

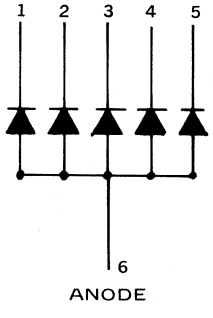
Pin Connections

1: Signal Output
2: No Connection, Do Not Use
3: $-V_{CC}$ Negative Bias for Amplifier
4: Positive Bias for Photodiode
5: No Connection, Do Not Use
6: Case
7: Signal Ground
8: Temp. Sensing Diode – Anode
9: Temp. Sensing Diode – Cathode
10: Ground (Power Supply)
11: No Connection, Do Not Use
12: $+V_{CC}$ Positive Bias for Amplifier

FB71

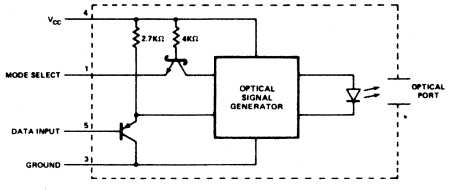


FB73



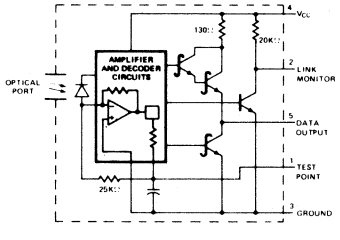
FB74

PIN	FUNCTION
1	MODE SELECT
2	N.C.
3	GROUND
4	V_{CC}
5	DATA INPUT

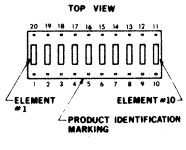


FB75

PIN	FUNCTION
1	TEST POINT
2	LINK MONITOR
3	GROUND
4	V_{CC}
5	DATA OUTPUT

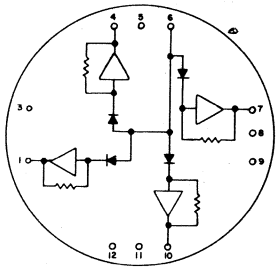


FB76



PIN	FUNCTION	PIN	FUNCTION
1	ANODE 1	11	CATHODE 10
2	ANODE 2	12	CATHODE 9
3	ANODE 3	13	CATHODE 8
4	ANODE 4	14	CATHODE 7
5	ANODE 5	15	CATHODE 6
6	ANODE 6	16	CATHODE 5
7	ANODE 7	17	CATHODE 4
8	ANODE 8	18	CATHODE 3
9	ANODE 9	19	CATHODE 2
10	ANODE 10	20	CATHODE 1

FB77



PIN	CONNECTION
1.	OUTPUT, QUADRANT 1
2.	PIN MISSING (REF.)
3.	CASE (ISOLATED)
4.	OUTPUT, QUADRANT 4
5.	NO CONNECTION
6.	PHOTODIODE, –V BIAS
7.	OUTPUT, QUADRANT 3
8.	0 VOLT
9.	GUARD RING
10.	OUTPUT, QUADRANT 2
11.	NO CONNECTION
12.	AMPLIFIER, +V BIAS

NOTES:

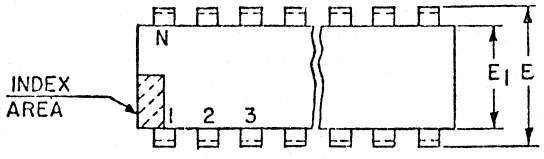
These outline drawings are intended as a guide for the user. They should not be used for construction purposes without first checking with the appropriate manufacturer.

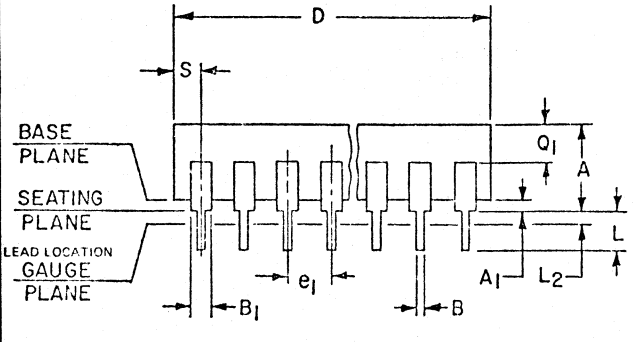
These drawings are referenced in the Technical Sections of this D.A.T.A.BOOK in accordance with information supplied by the manufacturers.

The TO and MO drawings have been reproduced from JEDEC Registration Data Files with the permission of the National Electrical Manufacturer's Association – Electronic Industries Association. JEDEC designations are assigned only to outlines submitted by the JC-11 Committee on Mechanical Standardization. The procedure of assigning and announcing the JEDEC designation constitutes registration. Suffices such as AA, AB or MA, MB following the TO or MO Series number indicates dimensional variations of the basic outline. JEDEC type numbers which have letter S suffices indicate a device that is manufactured with leads shorter than specified in the registered data of the device, but not shorter than 12.7 mm (.5 inch). The suffix letter S need not be marked on individual devices.

All dimensions are in inches except where noted.

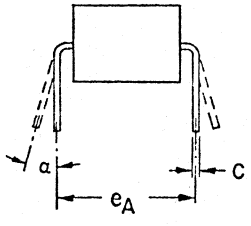
MO001





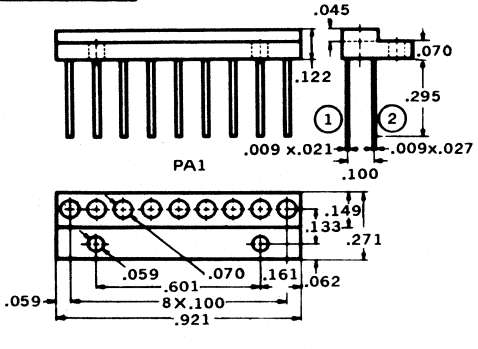
NOTES:

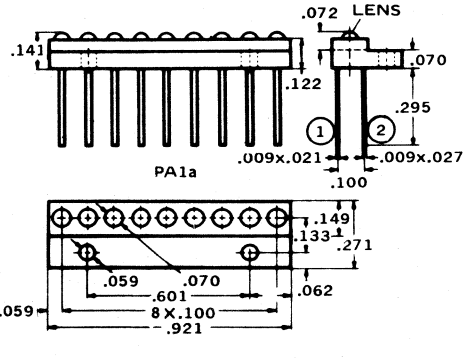
1. Refer to applicable symbol list.
2. Dimensioning and tolerancing per ANSI Y14.5-1973.
3. Leads within .005 radius of True Position (TP) at gauge plane with maximum material condition and unit installed.
4. e_1 and e_A applies in zone L_2 when unit installed.
5. α applies to spread leads prior to installation.
6. N is the maximum quantity of lead positions.
7. N_1 is the allowable quantity of missing leads.
8. E_1 does not include mold flash.
9. Outlines on which the seating plane is coincident with the base plane (A_1 = 0) terminal lead stand-offs are not required, and B_1 may equal B along any part of the lead above the seating/base plane.
10. Controlling Dimension: INCH



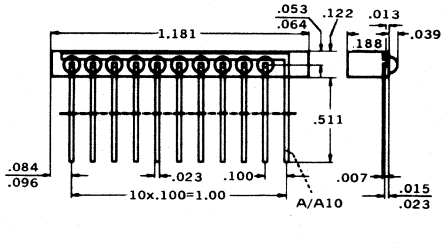
SYMBOL	(ALL DIMENSIONS IN INCHES) AM MIN.	AM MAX.	NOTE
A	.115	.215	
A_1	.015	.070	
B	.015	.021	
B_1	.040	.070	
C	.008	.012	
D	.320	.350	
E	.290	.325	
E_1	.225	.280	8
e_1	.100 TP		3,4
e_A	.300 TP		3,4
L	.100	.150	
L_2	.000	.030	
α	0°	15°	5
N	6		6
N_1	0		7
Q_1	-	-	
S	.050	.080	
NOTE	1,2,10		

PA1





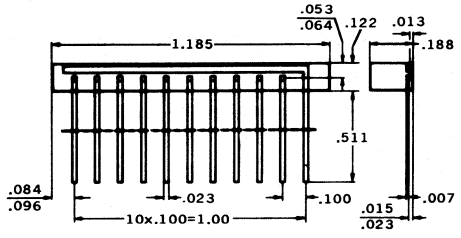
PA2



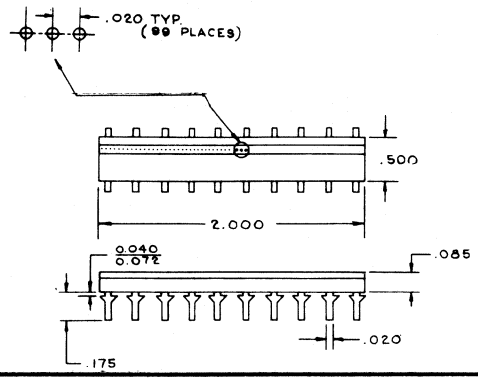
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

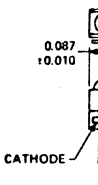
PA4



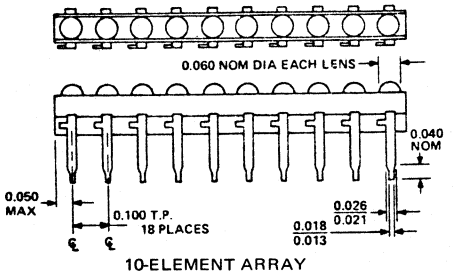
PA5



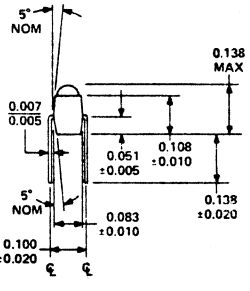
PA6



SINGLE ELEMENT TOP AND SIDE VIEWS

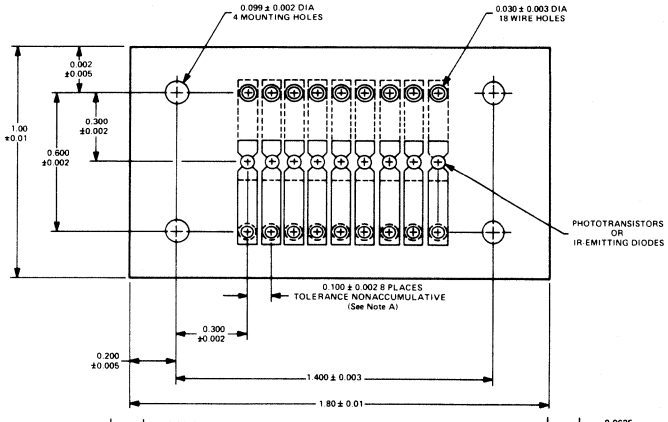


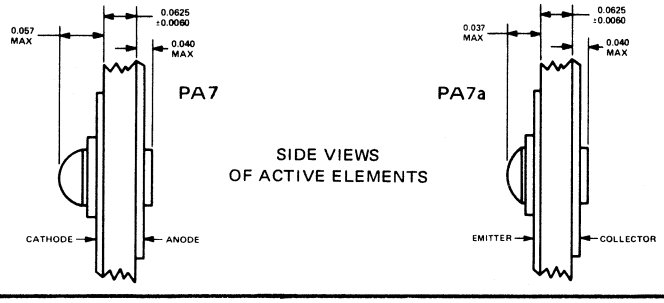
10-ELEMENT ARRAY TOP AND SIDE VIEWS



END VIEW

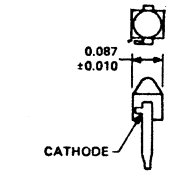
PA7

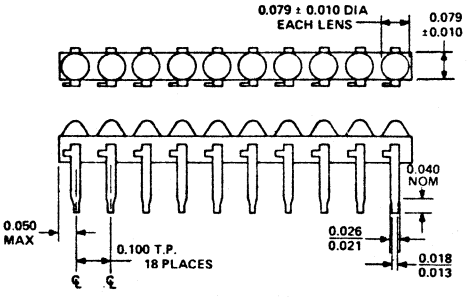


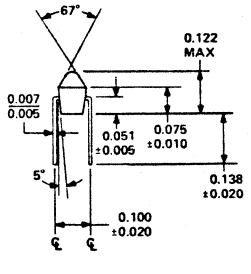


SIDE VIEWS OF ACTIVE ELEMENTS

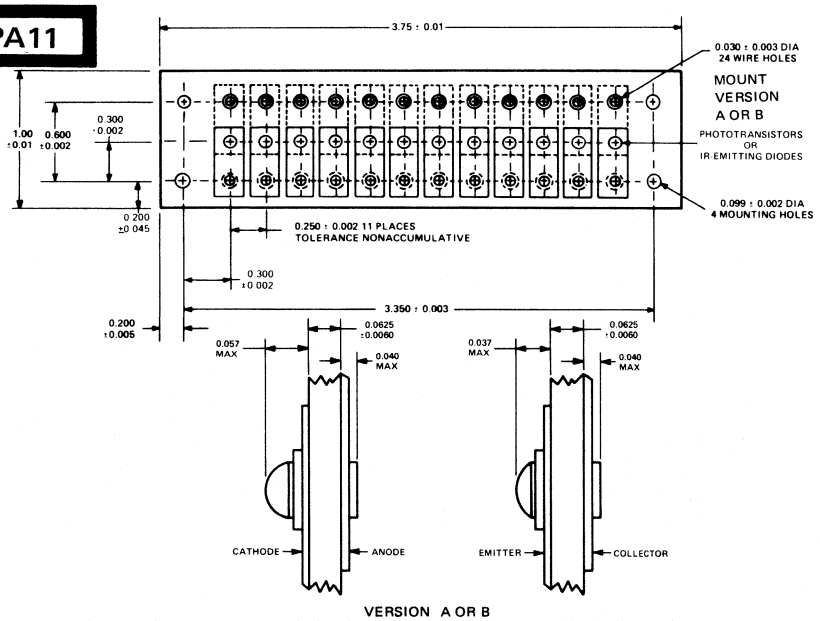
PA8







PA11

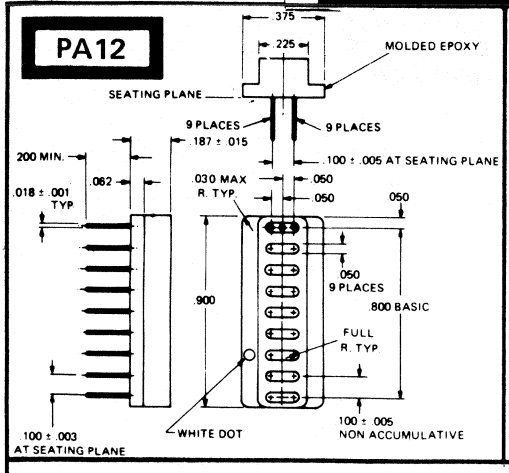


VERSION A OR B

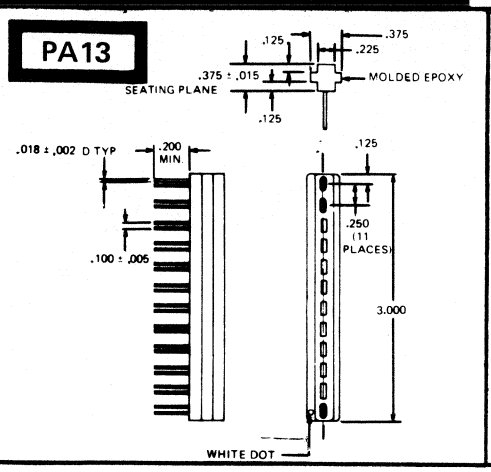
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

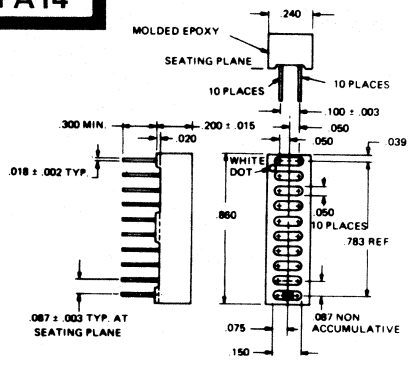
PA12



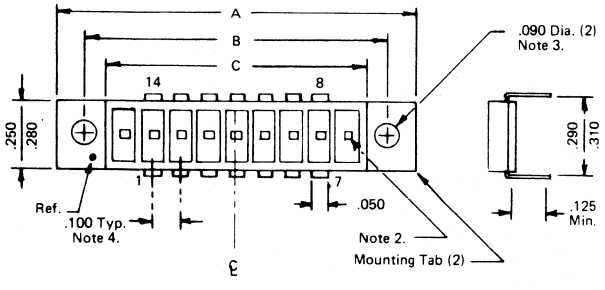
PA13

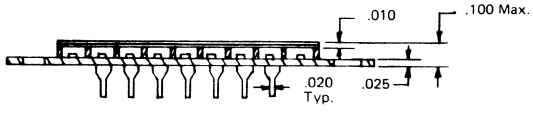


PA14



PA18

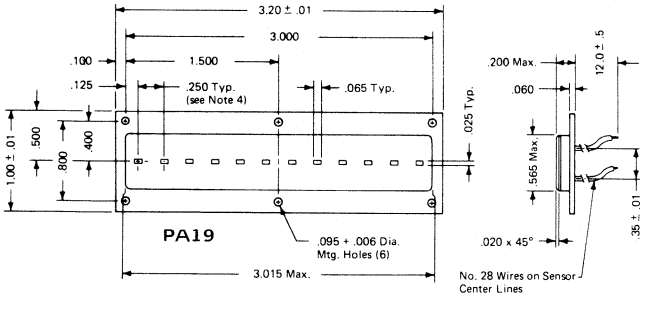


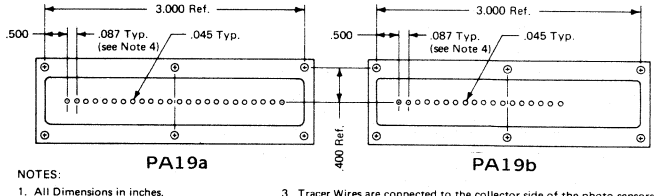


NOTES:
1. All dimensions in inches.
2. Active elements to be aligned on .100" centers ±.005". (Note: Chips are purposely staggered to align non-symmetrical active areas).
3. Mounting holes aligned ±.005" with center line of sensors.
4. Leads symmetrical with package based on number of leads and number of cavities.

	A	B	C
PA18			.22
PA18a			.32
PA18b			.42
PA18c	.90	.70	.52
PA18d	1.00	.80	.62
PA18e	1.10	.90	.72
PA18f	1.20	1.00	.82
PA18g	1.30	1.10	.92
PA18h	1.40	1.20	1.02
PA18j	1.50	1.30	1.12
PA18k	1.60	1.40	1.22

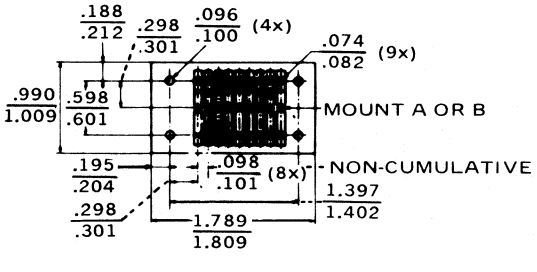
PA19

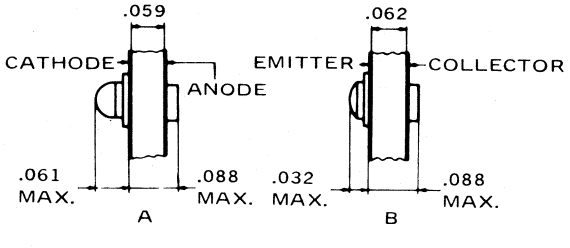




NOTES:
1. All Dimensions in inches.
2. All Decimals ± .005 unless otherwise noted.
3. Tracer Wires are connected to the collector side of the photo sensors.
4. Sensor Active Area to be aligned on centers ± .003 non-accumulative.

PA20

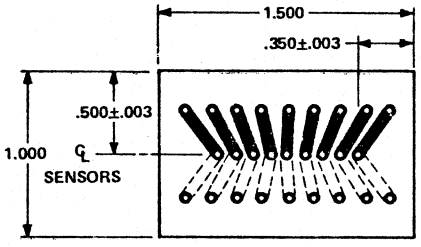




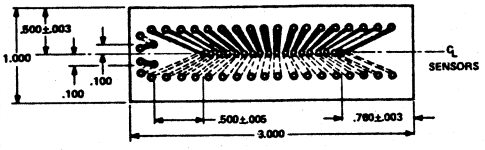
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

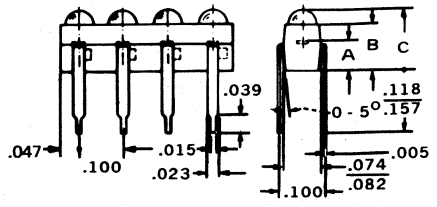
PA23



PA25

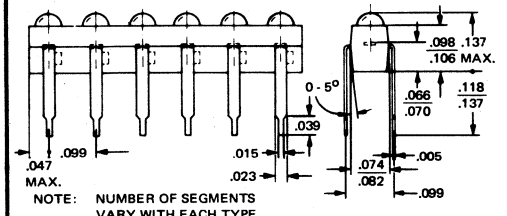


PA26



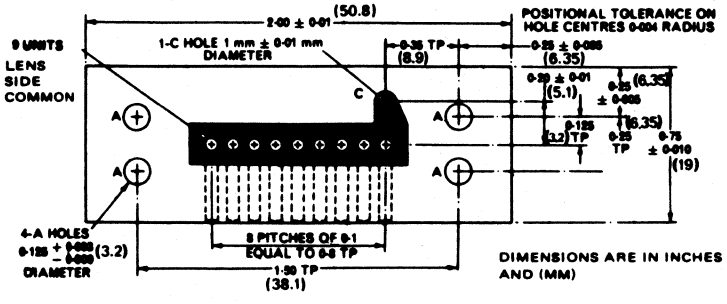
	A	B	C
PA26	.066	.098	.137
	.070	.106	MAX
PA26a	.070	.078	.122
	.078	.086	MAX

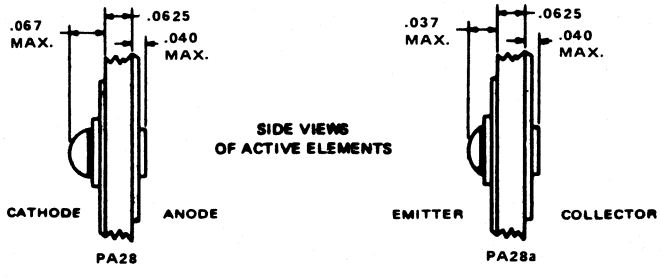
PA27



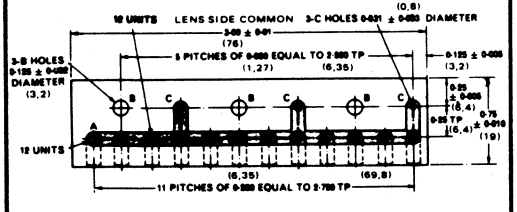
NOTE: NUMBER OF SEGMENTS VARY WITH EACH TYPE

PA28



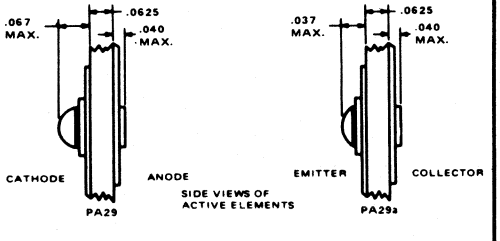


PA29

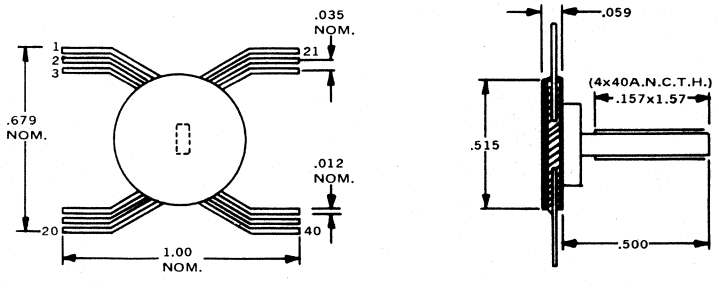


POSITIONAL TOLERANCE ON HOLE CENTRES 0·004 RADIUS

ALL DIMENSIONS ARE IN INCHES AND (MM)



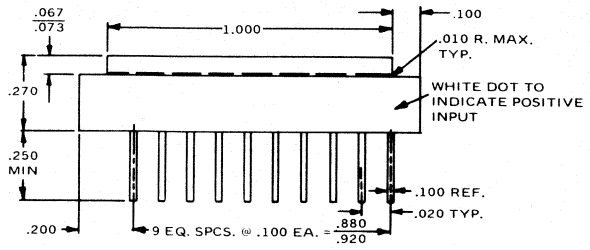
PA33



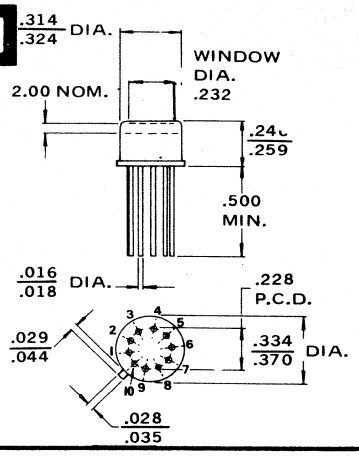
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

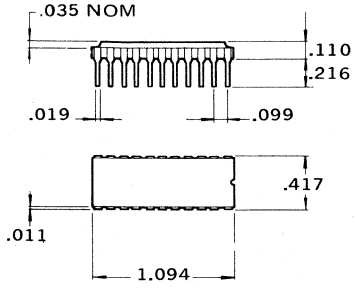
PA34



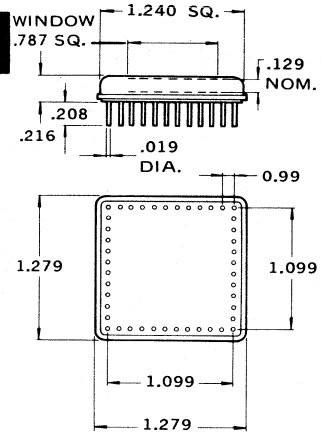
PA35



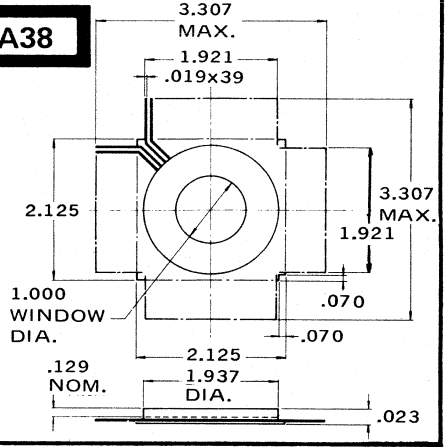
PA36



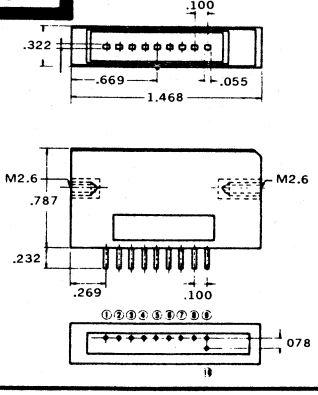
PA37



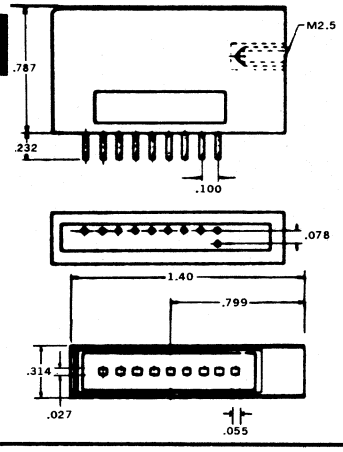
PA38



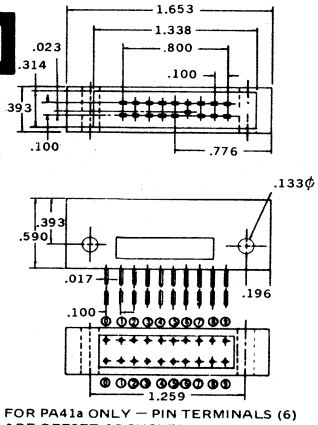
PA39



PA40

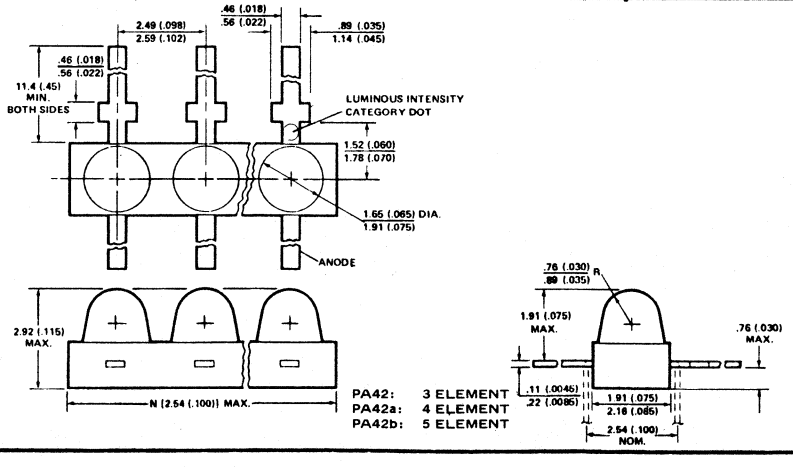


PA41



FOR PA41a ONLY — PIN TERMINALS (6) ARE OFFSET AS SHOWN.

PA42

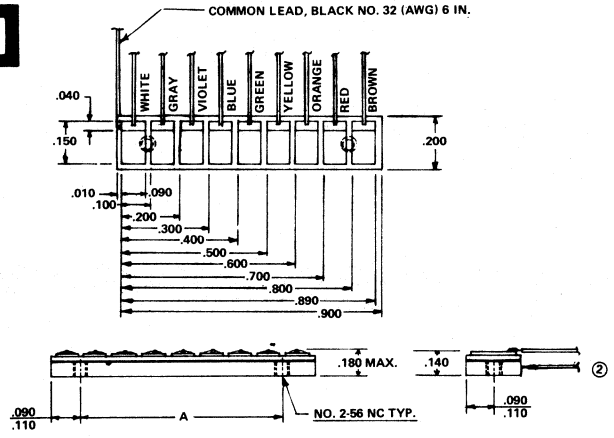


PA42: 3 ELEMENT
PA42a: 4 ELEMENT
PA42b: 5 ELEMENT

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

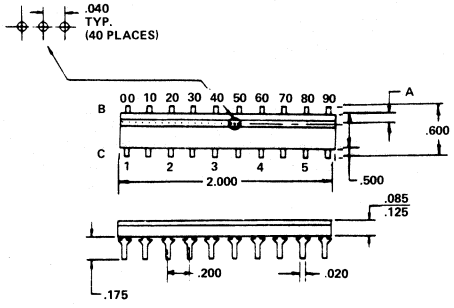
PA44



	A
PA44	.200
PA44a	.300
PA44b	.400
PA44c	.500
PA44d	.600
PA44e	.700

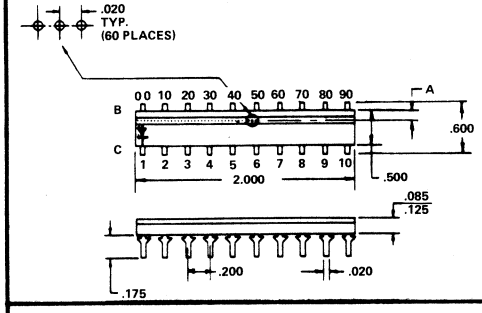
PA45

	A	B	C
PA45	.150	Cathodes	Anodes
PA45a	.170	Anodes	Cathodes

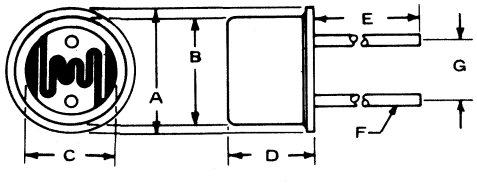


PA46

	A	B	C
PA46	.170	Anodes	Cathodes
PA46a	.150	Anodes	Cathodes
PA46b	.150	Cathodes	Anodes

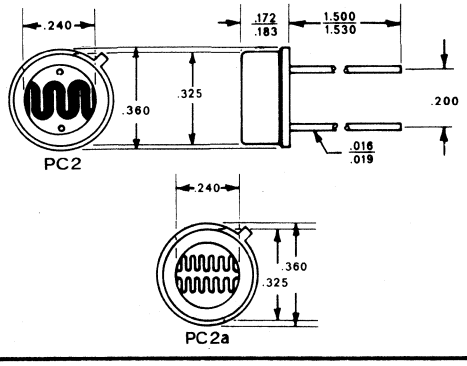


PC1

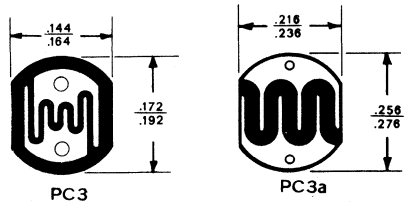


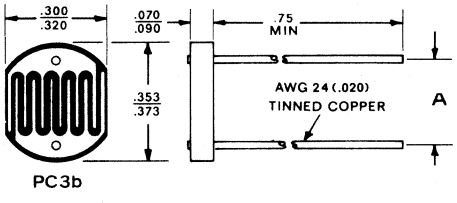
	A	B	C	D	E	F	G
PC1	.210	.183	.155	.140 .154	1.500 1.530	.016 .019	.100
PC1a	.550	.486	.430	.190 .230	1.500 1.530	.019	.295
PC1b	.540 .560	.481 .491	.425 .435	.174 .204	1.25 1.50	.015 .019	.295 NOM

PC2



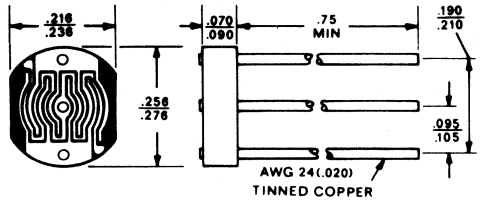
PC3



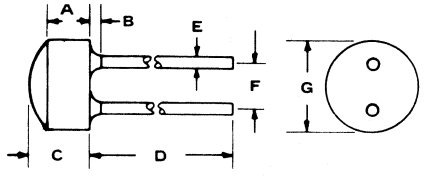


	A
PC3	.090 .110
PC3a	.190 .210
PC3b	.255 .275

PC4



PC5

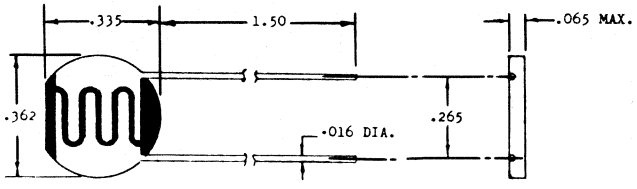


	A	B	C	D	E	F	G
PC5	.240 REF	.060 MAX	.330 MAX	.750 MIN	.014 .021	.265	.520
PC5a		NA	.157	.401 MIN	.016 .021	.100	.209

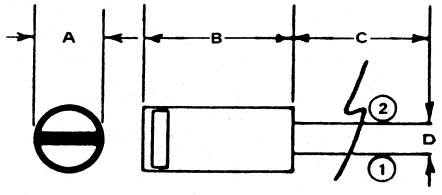
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PC6

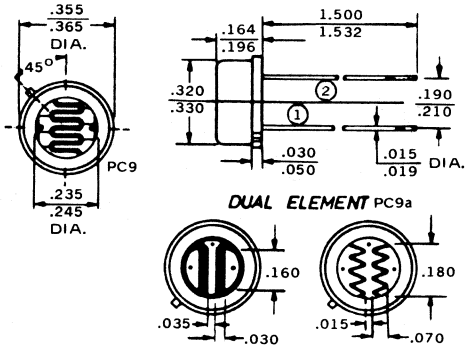


PC8

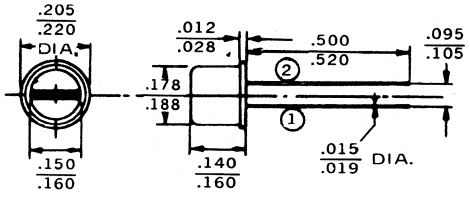


	A	B	C	D
PC8	.235 .250	.500 .531	1.469 1.531	.100
PC8a	.078	.157	1.181	

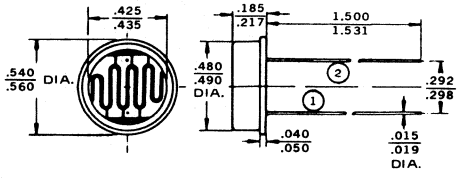
PC9



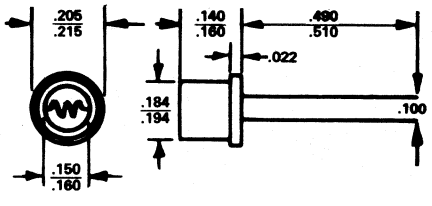
PC10



PC11



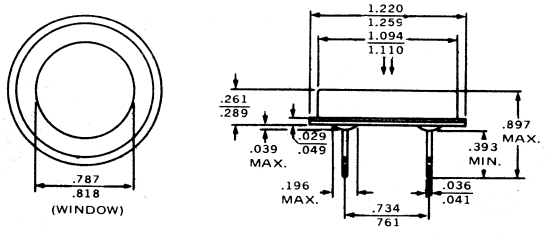
PC13



PC14

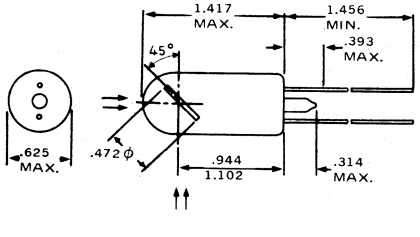
	TYPE SERIES	D	H
PC14	4H	.208	.134
	5H	.256	.138
	7H	.363	.170
	MKY-7H	.363	.142
	MKB-7H	.363	.142
	12H	.59	.185
	25H	1.24	.304
	25R	1.16	.375
	5C	.197	.138
	7C	.319	.165
	12C	.473	.083
	25C	.985	.114

PC15

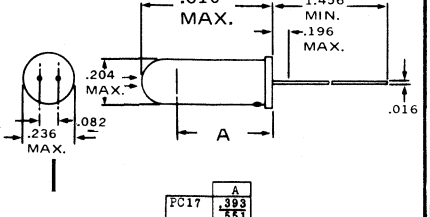


	A	B	C	D	E	F	G	H	J	K	M
PC15	1.220	1.094	.787	.897	.393	.261	.039	.029	.734	.196	.036
	1.259	1.110	.818	MAX	MIN	.289	MAX	.049	.761	MAX	.041
PC15a	1.25	1.094	.812	.594		.265	.025			.187	.040

PC16

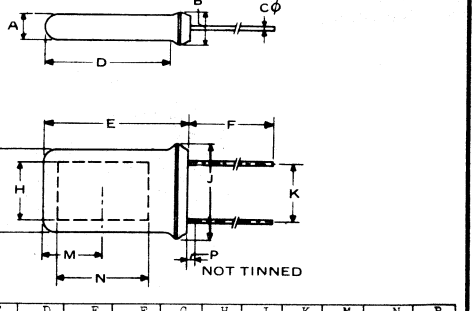


PC17



	A
PC17	.393 .551
PC17a	.413 .492

PC19

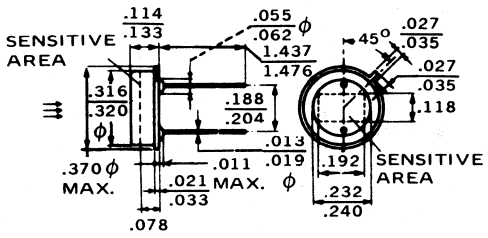


	A	B	C	D	E	F	G	H	J	K	M	N	P
PC19	.173 .196	.236 MAX	.016	.866 MIN	.944 1.062	1.456 MIN	.555 .625	.393	.641 MAX	.401	.334	.590	.196 MAX
PC19a	.173 .196	.236 MAX	.016	1.496 MIN	1.574 1.692	1.456 MIN	.555 .625	.433	.641 MAX	.401	.590	1.141	.196 MAX

49. OUTLINE DRAWINGS

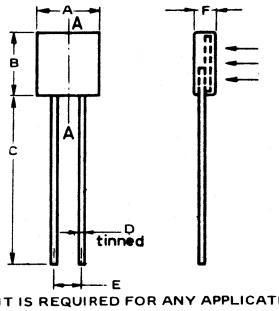
IN DRAWING NUMBER SEQUENCE

PC20



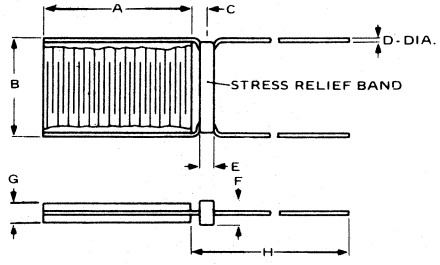
PC21

	A	B	C	D	E	F
PC21	.208 MAX	.208 MAX	1.456 MIN	.016	.099	.055 MAX
PC21a	.185 .208	.185 .208	1.456 1.535	.020	.099	.035 .051



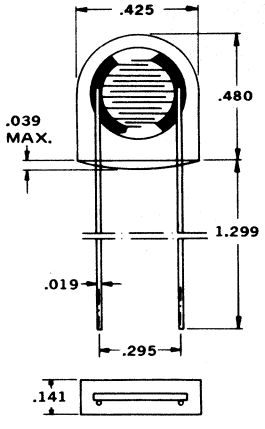
IF IT IS REQUIRED FOR ANY APPLICATION THAT THE DEVICE IS PARTLY SHADED, THE SHADOW LINE SHOULD BE PERPENDICULAR TO THE AXIS A-A OF THE DEVICE.

PC22

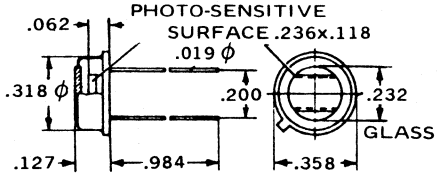


	A	B	C	D	E	F	G	H
PC22	.452 MAX	.346 MAX	.064	.016	.039	.070 MAX	.059 MAX	1.456 MIN
PC22a	.161 MAX	.496 MAX	.064	.016	.039	.086 MAX	.059 MAX	1.456 MAX
PC22b	.590 MAX	.496 MAX	.064	.016	.039	.086 MAX	.059 MAX	1.456 MAX

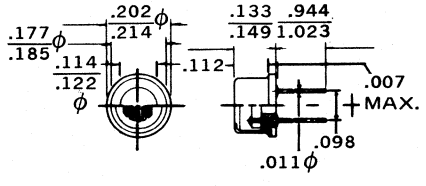
PC23



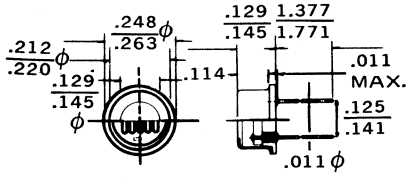
PC24



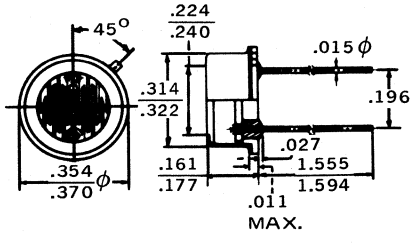
PC25



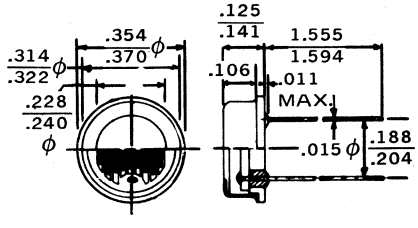
PC26



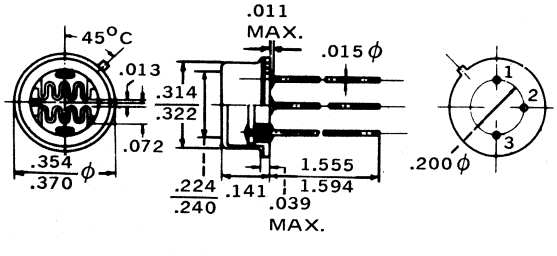
PC27



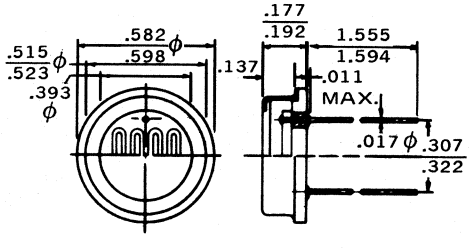
PC28



PC29



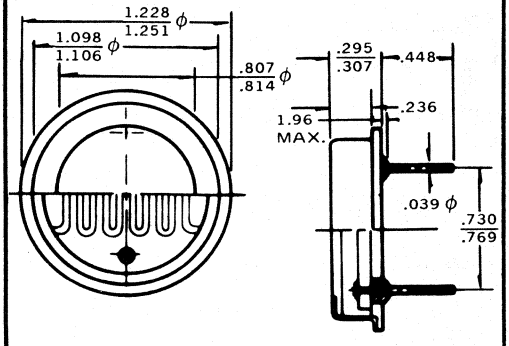
PC30



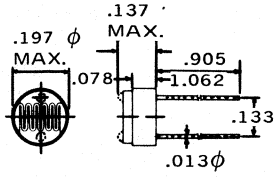
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

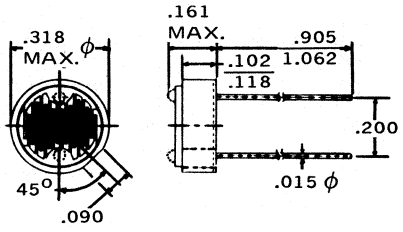
PC31



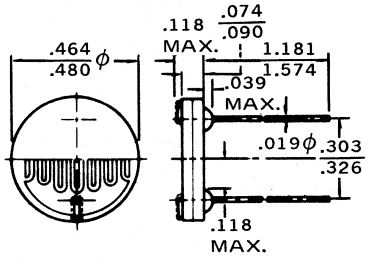
PC32



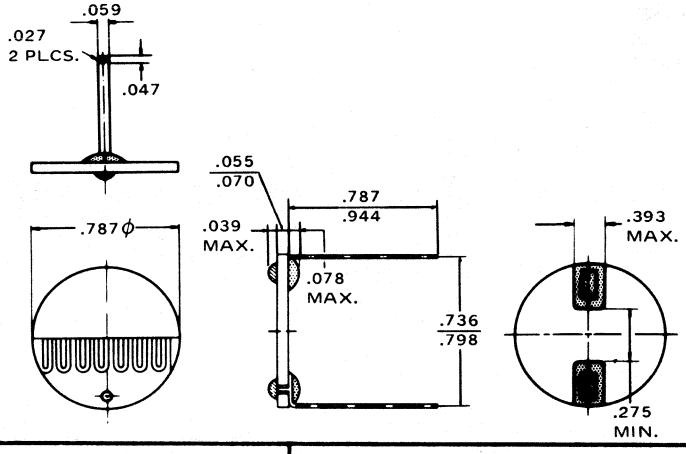
PC33



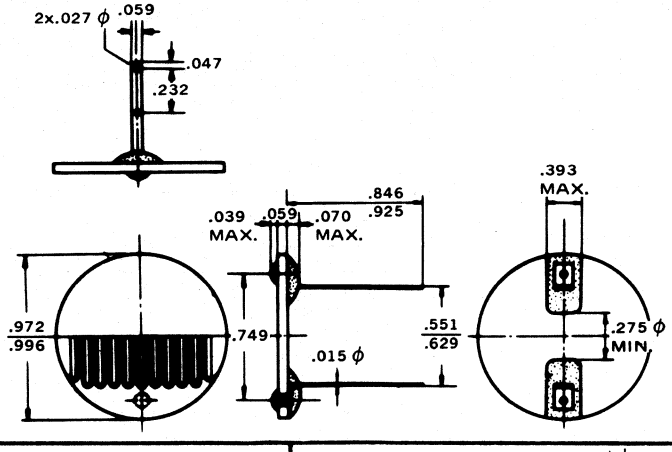
PC34



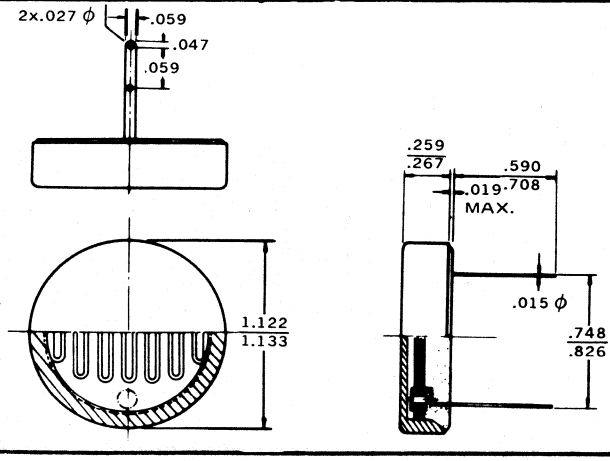
PC35



PC36



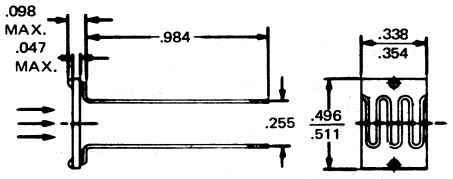
PC37



49. OUTLINE DRAWINGS

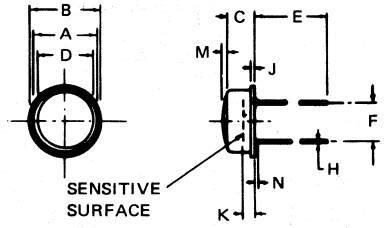
IN DRAWING NUMBER SEQUENCE

PC38



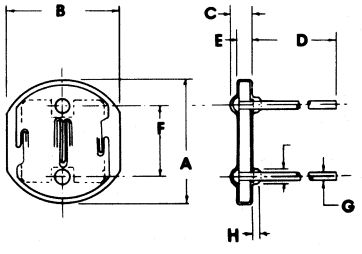
ACTIVE AREA – .354x.433

PC39



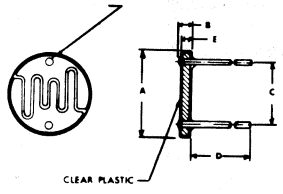
	A	B	C	D	E	F	H	J	K	M	N
PC39	.480 .492	.542 .557	.180 .198	.423 .437	1.50 NOM	.292 .298	.016 .019	.021 .035	.080 .100	.022 .032	.020 .028
PC39a	.182 .193	.205 .215	.140 .150	.150 .160	1.50 NOM	.096 .104	.016 .019	.015 .025	.068 .080	.005 .015	.010 .020
PC39b	.245 .265	.290 .302	.171 .183	.173 .182	1.50 NOM	.171 .178	.016 .018	.056 .064	.083 .090		
PC39c	.493 .507		.243 .257	.458 .472	1.594 TYP	.288 .302	.023 .027		.158 .172		
PC39d	.481 .491	.545 .555	.182 .196		1.50 1.60	.290 .300	.016 .019	.025	.082 .098		.030 .040

PC40



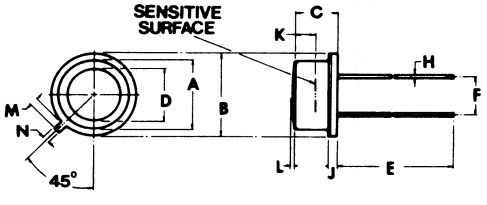
	A	B	C	D	E	F	G	H
PC40	.434 .444	.390 .400	.050 .060	1.37 NOM	.039 .049	.288 .302	.024 .026	.020 .030
PC40a	.434 .444	.390 .400	.050 .060	1.25 MIN		.288 .302	.024 .026	.030 MAX

PC41



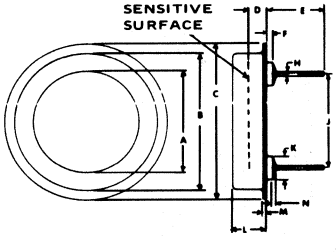
Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max.
A	.152	.162	3.86	4.11
B	.039	.049	.99	1.26
C	.096	.104	2.46	2.64
D	1.53 Nominal		38.9 Nominal	
E		.038		.966
F	024	.026	.61	.66

PC42



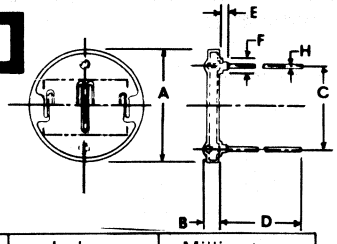
	Inches		Millimetres	
Ref.	Min.	Max.	Min.	Max.
A	.320	.330	8.15	8.35
B	.355	.365	9.05	9.25
C	.173	.182	4.40	4.62
D	.235	.245	5.98	6.22
E	1.50	1.56	38.00	39.80
F	.195	.205	4.80	5.20
H	.016	.019	.409	.482
J	.036	.043	.92	1.10
K	.075	.098	1.90	2.50
L	−.010	+.010	−.26	+.26
M	.035	.045	.90	1.15
N	.026	.036	.68	.92

PC43



Dims.	Inches		Millimeters		Dims.	Min.	Max.	Millimeters	
Ref.	Min.	Max.	Min.	Max.	Ref.	Inches		Min.	Max.
A	.810	.820	20.57	20.82	H	.038	.042	.96	1.06
B	1.097	1.103	27.86	28.03	J	.745	.755	18.91	19.17
C	1.247	1.260	31.66	32.00	K	.180	.187	4.57	4.74
D	.067	.101	1.70	2.56	L	.257	.273	6.52	6.92
E	.484	.516	12.29	13.10	M	.040	.051	1.01	1.29
F	.042	.055	1.06	1.39	N	.015 Nominal		.38 Nominal	

PC44

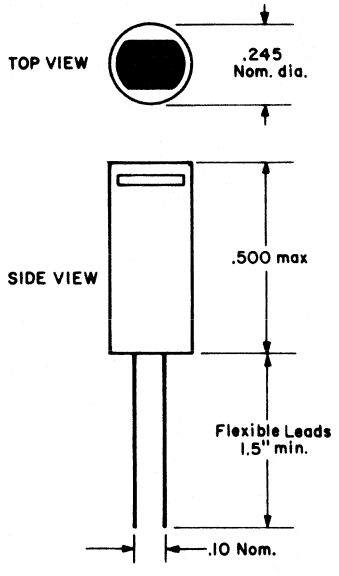


Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max.
A	1.010	1.020	25.70	25.90
B	.097	.107	2.47	2.56
C	.742	.758	18.85	19.25
D	9/16 Nominal		14.3 Nominal	
E	.095	.155	2.43	3.94
F	.080	.100	2.02	2.55
H	.044	.046	1.12	1.18

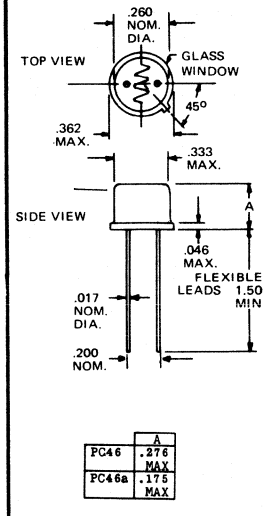
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PC45

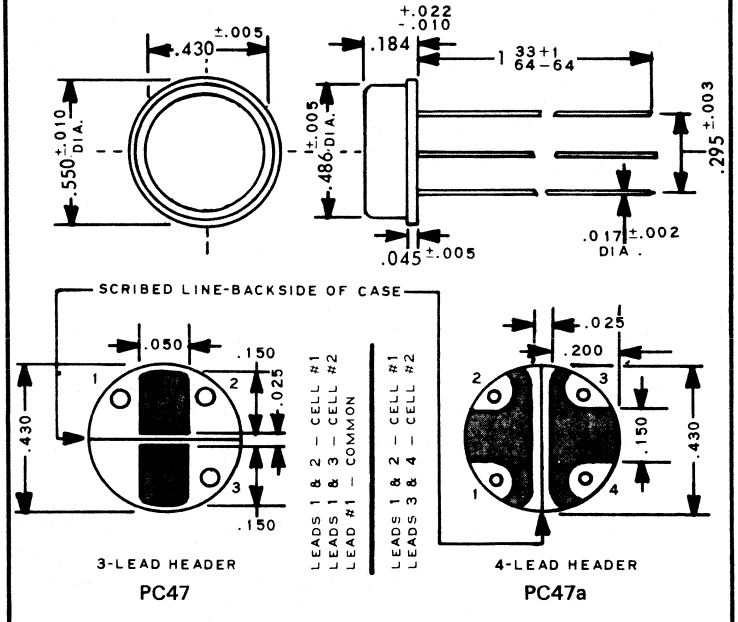


PC46

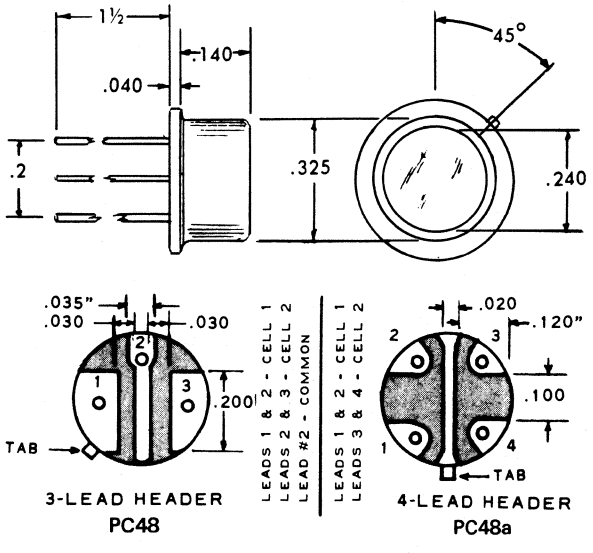


	A
PC46	.276 MAX
PC46a	.175 MAX

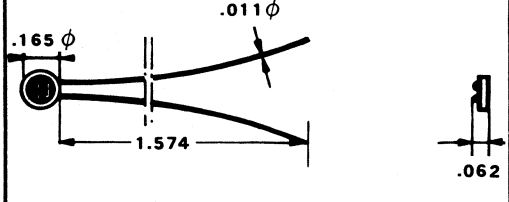
PC47



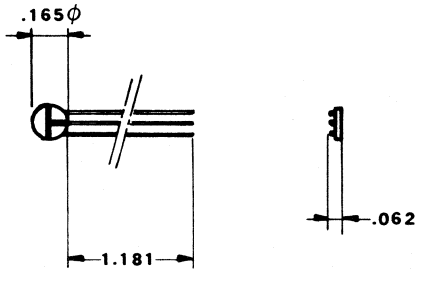
PC48



PC49



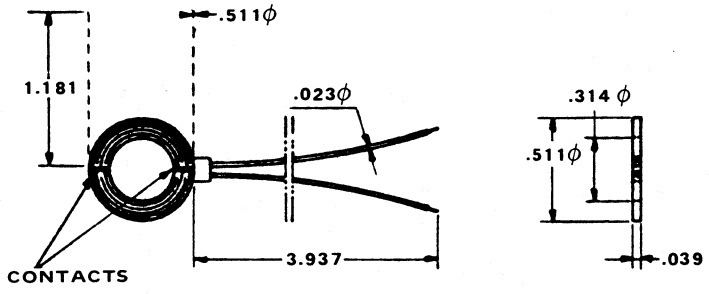
PC50



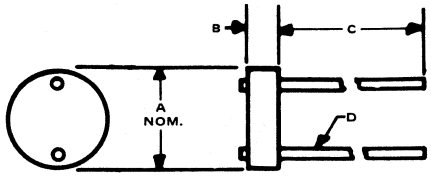
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PC51

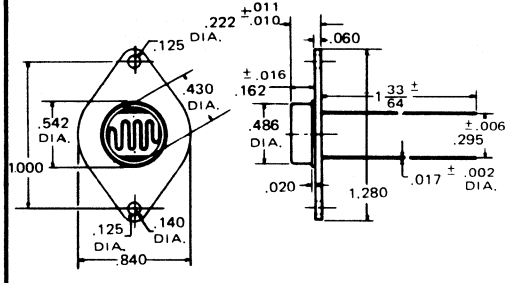


PC52

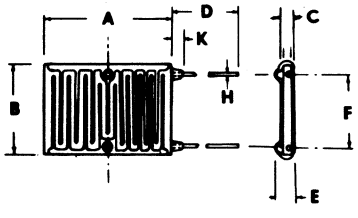


	A	B	C	D
PC52	.210	.030	1.00	.018
PC52a	.265	.030	1.00	.018
PC52b	.465	.090	1.00	.018

PC53

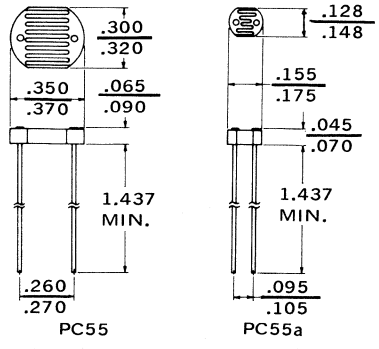


PC54

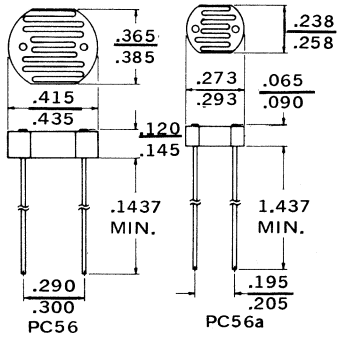


Ref.	Inches	
	Min.	Max.
A	.495	.505
B	.325	.335
C	.037	.047
D	.626	.686
E	.045	.055
F	.245	.255
H	.0177 Dia.	.0183 Dia.
K	.160 Max.	

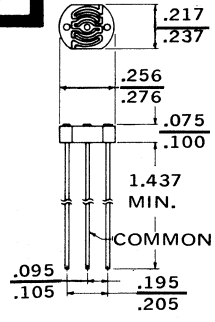
PC55



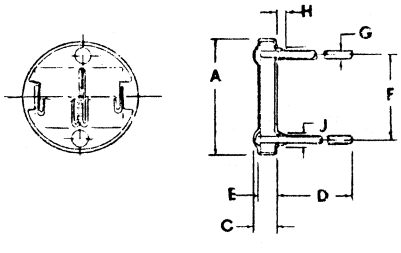
PC56



PC57

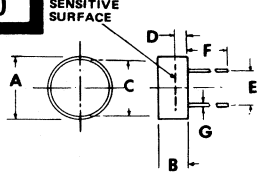


PC58



Dims.	Inches		Millimetres	
Ref.	Min.	Max.	Min.	Max.
A	.265	.275	6.72	6.99
C	.039	.049	1.00	1.20
D	1.375		34.93	
E	.028	.038	.712	.968
F	.195	.205	4.975	5.205
G	.024	.026	.61	.661
H	.020	.030	.51	.762
J	.035	.045	.90	1.15

PC60

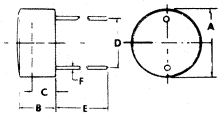


Ref.	Inches		Millimeters	
	Min.	Max.	Min.	Max.
A	.493	.507	12.52	12.88
B	.243	.257	6.17	6.53
C	.458	.472	11.63	11.99
D	.158	.172	4.01	4.37
E	.288	.302	7.32	7.67
F	1.25		3.18	
G	.023	.027	.58	.69

49. OUTLINE DRAWINGS

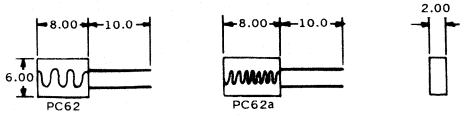
IN DRAWING NUMBER SEQUENCE

PC61



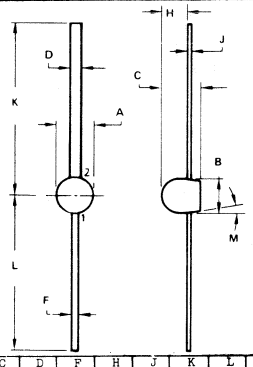
Ref.	INCHES		MILLIMETERS	
	Min.	Max.	Min.	Max.
A	.490	.510	12.446	12.954
B	.240	.260	6.096	6.604
C	.155	.175	3.937	4.445
D	.365	.385	9.271	9.779
E	1 3/16	1 5/16	30.16	33.34
F	.023	.027	.584	.686

PC62



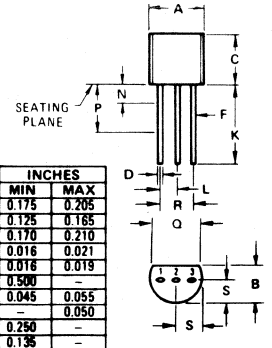
DIMENSIONS IN "MM"

PD1



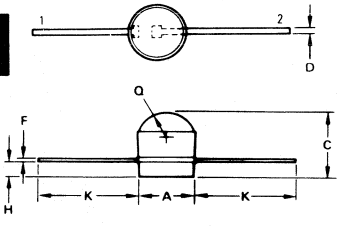
	A	B	C	D	F	H	J	K	L	M
PD1	.092 .102	.083 .093	.094 .104	.025 .029	.018 .022	.062 .072	.008 .012	.445 .500	.405 .410	9° 11°
PD1a	.092 .102	.083 .093	.094 .104	.026 .028	.019 .021	.062 .072	.008 .012	.445 .450	.405 .410	9° 11°
PD1b	.085		.095	.025	.020	.053	.010	.250 MIN	.250 MIN	

PD2



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	4.450	5.200	0.175	0.205
B	3.180	4.190	0.125	0.165
C	4.320	5.330	0.170	0.210
D	0.407	0.533	0.016	0.021
F	0.407	0.482	0.016	0.019
K	12.700	–	0.500	–
L	1.150	1.390	0.045	0.055
N	–	1.270	–	0.050
P	6.350	–	0.250	–
Q	3.430	–	0.135	–
R	2.410	2.670	0.095	0.105
S	2.030	2.670	0.080	0.105

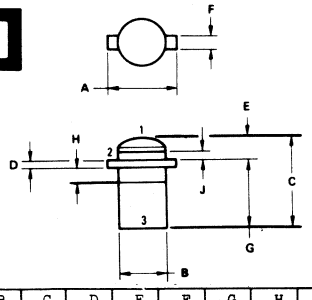
PD4



Lead 2 indicated by square bonding pad on bottom of device.

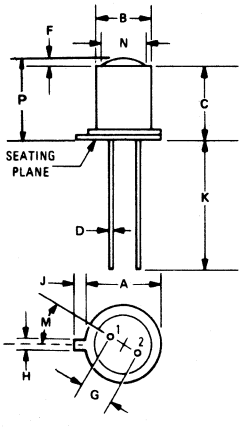
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.56	4.06	0.140	0.160
C	4.57	5.33	0.180	0.210
D	0.33	0.48	0.013	0.019
F	0.23	0.28	0.009	0.011
H	1.02	1.27	0.040	0.050
K	6.35	–	0.250	–
Q	1.91 NOM		0.075 NOM	

PD5



	A	B	C	D	E	F	G	H	J
PD5	.083 .093	.056 .062	.125 MAX	.003 .007	.023 .029	.018 .022	.082 .094	.014 .020	.008 .012
PD5a	.088	.061	.097		.030		.067		
PD5b	.291	.059	.122		.035	.019		.021	
PD5c	.082 .090	.055 .062	.122		.038	.015 .023	.078 .090	.019 .024	
PD5d	.088	.060		.005	.039		.070	.016	

PD7

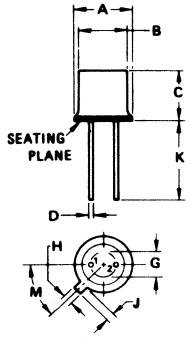


	A	B	C	D	F	G	H	J	K	M	N	P
PD7	.209 .230	.178 .195	.180 .210	.016 .019	.020 .040	.100	.039 .046	.033 .048	.500 MIN	45°	.132 .158	
PD7a	.219	.185	.200		.035	.100	.040	.028	.500 MIN		.140	.235
PD7b	.212	.195	.240			.100	.046		.500 MIN	45°		.240
PD7c	.228 MAX	.177 .188	.271 MAX	.018 MAX	.063 MAX	.099	.045 MAX	.046 MAX	.499 MIN	45°	.177 .188	.271 MAX
PD7d		.185	.283 .307	.017		.100			1.14 1.18			.210 .216
PD7e	.210 .216	.185	.192 .204	.017		.088 .111			.492 .570			.244
PD7f	.210 .216	.185 MAX	.192 .204	.017	.067 .075	.088 .111			.527 .535		.185 MAX	.259 .279
PD7g	.209 .230	.178 .195	.190 .210	.016 .019	.050 MAX	.100	.036 .046	.028 .048	.500 MIN	45°		.240 .260
PD7h	.210	.183	.192	.017	.045	.100			.500		.155	.237
PD7j	.209 .230	.178 .196	.170 .210	.016 .019	.035 .065	.100	.036 .046	.028 .048	.500 MIN	45°	.178 .196	
PD7k	.212 MAX	.168 MAX	.120 MAX	.020 TYP				.480	1.50 MIN			.220 MAX
PD7m	.224 MAX	.185	.145	.017	.000	.098	.039	.039	.511	45°	.118	
PD7n	.224	.185	.157	.017	.000	.100	.039	.039	.472	45°	.118	
PD7p	.370	.334	.125	.017	.000	.200	.031	.031	.472	45°	.259	
PD7q	.209 .230	.178 .195		.016 .021		.100 NOM	.031 .044	.036 .046	.500 MIN	45°		.255 MAX
PD7r	.209 .230	.178 .195	.170 .210	.016 .019	.020 .074	.100	.036 .046	.028 .048	1.00 MIN	45°		.190 .284

49. OUTLINE DRAWINGS

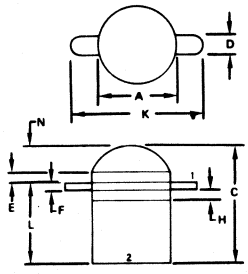
IN DRAWING NUMBER SEQUENCE

PD8



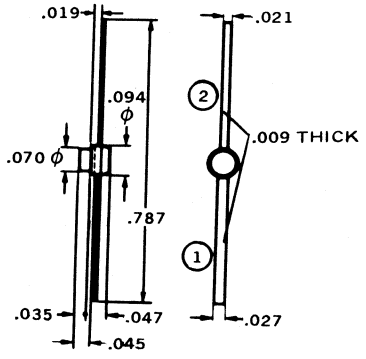
	A	B	C	D	G	H	J	K	M
PD8	.209 .230	.178 .195	.180 .210	.016 .019	.100 BSC	.039 .046	.033 .048	.500 MIN	45° BSC
PD8a	.210	.183	.145					1.500	
PD8b	.219	.185	.147		.100	.040		.500 MIN	
PD8c	.207 .213	.180 .188	.195 .220	.016 .019	.100	.036 .046	.033 .048	.500 MIN	45°
PD8d	.209 .230	.178 .195	.135 .165	.017 .021	.085 .115	.036 .046	.028 .048		
PD8e	.360	.320	.251	.009 .017	.157			1.965	
PD8f	.210	.189	.191	.019	.154			.500	
PD8g	.210 .216	.185	.192 .204	.017	.088 .111			.492 .570	
PD8h	.210	.185	.145	.020		.040	.040	1.500	
PD8j	.360	.325	.180	.017				1.500	
PD8k	.209 .230	.178 .195	.140 .150	.016 .019	.100	.036 .046	.028 .048	.500 MIN	45°
PD8m	.209 .230	.178 .195	.155 MAX	.016 .021	.100 NOM	.031 .044	.036 .045	.500 MIN	45°
PD8n	.209 .230	.178 .195	.170 .190	.016 .019	.100	.036 .046	.028 .048	1.000 MIN	45°

PD9

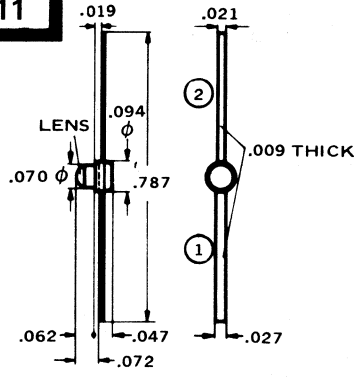


DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	1.47	1.57	0.058	0.062
C	–	3.18	–	0.125
D	0.46	0.56	0.018	0.022
E	0.20	0.30	0.008	0.012
F	0.08	0.18	0.003	0.007
H	0.36	0.51	0.014	0.020
K	2.11	2.36	0.083	0.093
L	2.08	2.39	0.082	0.094
N	0.58	0.78	0.023	0.031

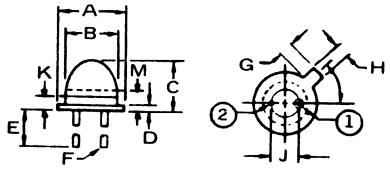
PD10



PD11

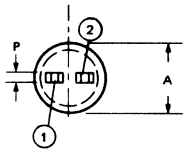


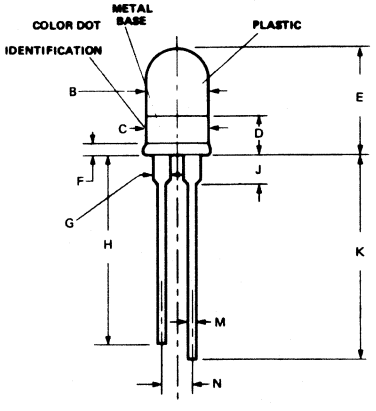
PD12



	A	B	C	D	E	F	G	H	J	K	M
PD12	.224	.188	.118		.511	.019			.100	.013	.047
PD12a	.205 .230	.160 .170	.130 .170	.010 MAX	.500 MIN	.016 .019	.033 .048	.036 .046	.100		
PD12b	.209 .230	.164 .170	.180 MAX	.010 MAX	.500 MIN	.016 .019	.033 .048	.036 .046	.100		
PD12c	.209 .230	.166 .170	.176 .230	.010 .016	.500 MIN	.016 .019	.033 .048	.036 .046	.100		
PD12d	.212	.168	.100	.012	.500 MIN	.020	.048		.100		
PD12e	.228 MAX	.161 .178	.199 MAX		.499 MIN	.018 MAX	.046 MAX	.045 MAX	.099		
PD12f	.210	.170	.200		.500	.107			.100	.100	
PD12g	.217	.165	.126	.008	.500 MIN	.018			.100	.082	
PD12h	.228 MAX	.161 .169	.196 MAX	.007	.944 MIN	.017	.047	.039	.098	.098	
PD12j	.228 MAX		.275 MAX	.019	.944 MIN	.017	.039	.039	.099		
PD12k	.211		.240 MAX			.018	.039	.039	.098	.078	
PD12m	.211	.181	.260		.512	.018	.039	.039	.098	.177	
PD12n	.211	.177	.240 MAX	.008	.512	.018	.047	.039	.100	.079	
PD12p	.210 .216	.161 .169	.157 MAX		.527 .535	.017			.088 .111		.106 .110
PD12q	.216	.185	.291		1.000 MIN	.017			.098		
PD12r		.161 .177	.157 MAX		.527 .535	.017			.100		.110 MAX
PD12s	.211	.181	.295	.016	.492 MIN	.018	.041	.039	.100	.161	
PD12t	.211	.165	.217 MAX	.008	.492 MIN	.018	.041	.039	.100	.070	
PD12u	.211	.181	.240	.016	.492 MIN	.018	.041	.039	.100	.122	
PD12v	.224	.185	.267		.787	.017	.039	.039	.098	.177	
PD12w	.224	.185	.260		.511	.017	.039	.039	.098	.177	

PD13



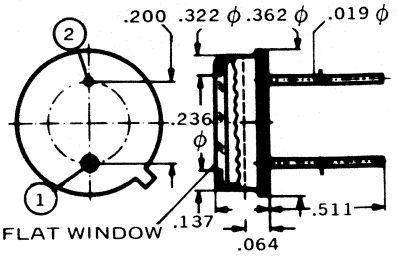


	A	B	C	D	E	F	G	H	J	K	M	N	P
PD13	.220 .240	.170 .200	.190 .210	.115 .125	.320 .360	.025 .035	.030 .055	.600 MIN	.080 .120	.650 MIN	.020 .030	.080 .120	.020 .030
PD13a	.222 .229			.122 .354	.330	.031	.047	.240	.106	.279	.031	.100	.031
PD13b	.130 MAX	.105 .125			.130 NOM			.560 MIN	.050 NOM	.610 MIN	.015 .025	.080 .100	.015 .025
PD13c	.126	.118			.177	.039		.893	.098		.020	.100	.020
PD13d	.220 .240	.170 .200	.170 .200	.190 .210	.320 .360	.025 .035	.035 .050	.230 MIN	.100	.280 MIN	.025 .040	.080 .120	.025 .040

49. OUTLINE DRAWINGS

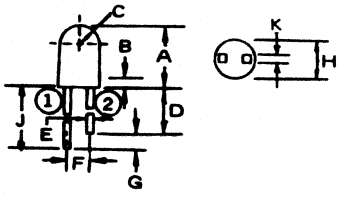
IN DRAWING NUMBER SEQUENCE

PD14



	A	B	C	D	E	F	G	H	J	K
PT14	.209 .212	.163 .168		.094 .103		1.50 MIN			.036 .046	.033 .048
PT14a	.228 MAX	.177 .185	.275 MAX	.177	.019	.499 MIN	.017	.099	.039	.039
PT14b	.211	.181	.260	.177		.512	.018	.098	.039	.039
PT14c	.209 .230	.178 .195	.205 .275	.170 .210	.030 MAX	.500 MIN	.016 .019	.100 TYP	.036 .046	.028 .048

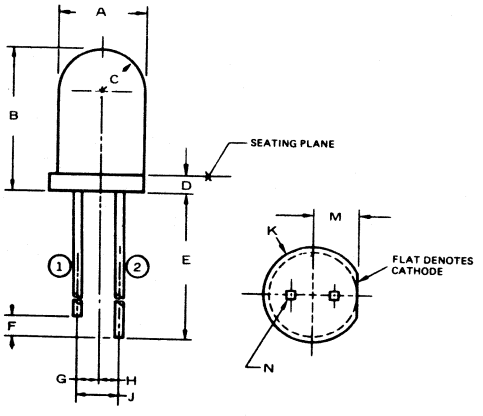
PD15



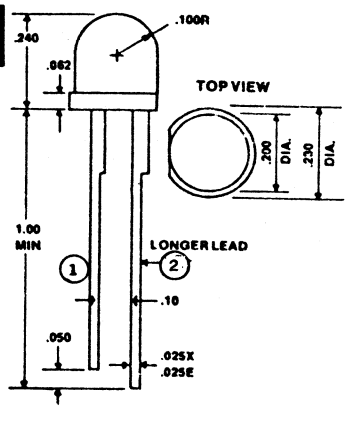
	A	B	C	D	E	F	G	H	J	K
PD15	.185		.047		.020 sq		.050	.095	.600 MIN	
PD15a	.200	.030	.060	.100 MIN	.020 sq	.075	.050	.125		
PD15b	.230			.500 MIN	.017	.100		.185 DIA		.015
PD15c	.190 .210			.500 MIN	.018 .022	.045 .055		.110 .130		.018 .022
PD15d	.230			.500 MIN	.020 sq	.100	.050	.185 DIA		.020 sq

PD16

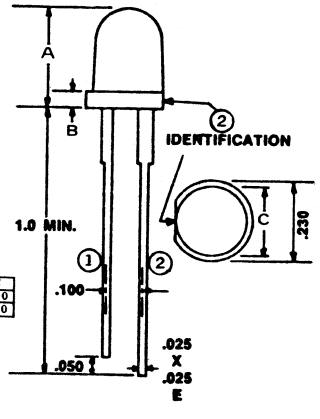
	A	B	C	D	E	F	G	H	J	K	M	N
PD16	.125 DIA	.210		.020	.600 MIN	.050	.025	.025	.050	.160 DIA		.020 sq
PD16a	.200 DIA	.340	.100 RAD	.040	.800 MIN	.050 .075	.050	.050	.100	.230 DIA	.100	.020 sq
PD16b	.115 .130	.190 .210		.020 MIN	.650 MIN	.025 .050	.025 .030	.025 .030	.050 .060	.150 .160		.011 .017
PD16c	.115 .130	.190 .210		.020 MIN	1.050 MIN	.025 .050	.025 .030	.025 .030	.050 .060	.150 .160		.011 .017
PD16d	.115 .130	.125 .145		.030	.625 MIN	.025 MIN	.025 .030	.025 .030	.050 .060	.150 .160		.011 .017
PD16e	.115 .130	.125 .145		.030	1.025 MIN	.025 MIN	.025 .030	.025 .030	.050 .060	.150 .160		.011 .017
PD16f	.170 .200	.313 .373		.025 .035	.640 MIN	.040 MIN			.100 NOM	.220 .240		.014 .016
PD16g	.110 .125	.200 .240		.020 .040	.500 MIN				.050 .060	.150 .160		.018 .022
PD16h	.125	.210		.030	.600 MIN	.050	.025	.025	.050	.160 DIA		
PD16j	.195 .205	.235 .265		.047 .065	.940 1.06	.065 .075			.095 .105	.225 .235		.018 .022
PD16k	.120	.200		.020	1.05 MIN	.050			.055	.155		.014
PD16m	.190	.285		.050	.740	.050			.100	.230		
PD16n	.190 .210	.325 .355		.030	.715	.040	.400 .600		.090 .110	.220 .240		
PD16p	.190 .210	.325 .355		.030	.650 .690	.040	.400 .600		.090 .110	.220 .240		
PD16q	.190	.230		.050	.790	.050			.100	.230		
PD16r	.115 .125	.190 .210		.020	.600 MIN	.050	.025 .030	.025 .030	.050 .060	.150 .160		.011 .014
PD16s	.115 .125	.190 .210		.020	1.00 MIN	.050	.025 .030	.025 .030	.050 .060	.150 .160		.011 .014
PD16t	.115 .125	.190 .210		.045	.600 MIN	.050	.025 .030	.025 .030	.050 .060	.150 .160		.011 .014
PD16u	.115 .125	.190 .210		.045	1.00 MIN	.050	.025 .030	.025 .030	.050 .060	.150 .160		.011 .014
PD16v	.190 .210	.315 .350		.015 .050	.670 .735	.040 MIN				.230 DIA	.102	.015x .017
PD16w	.115 .135	.190 .210		.020 .040	1.00 MIN	.025 MIN			.090	.140 .160 DIA		.020
PD16x	.190 .210	.330 .350		.020 .040	1.00 MIN	.025 MIN			.100	.220 .240 DIA		.020
PD16y	.190 .210	.330 .350		.020 .040	1.00 MIN				.095 .105	.220 .240	.025	
PD16z	.200	.339	.177	.040	1.10	.059			.100	.228		.019



PD17

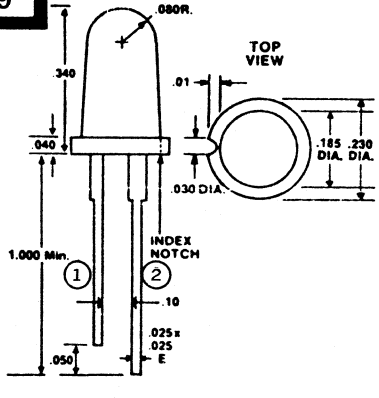


PD18

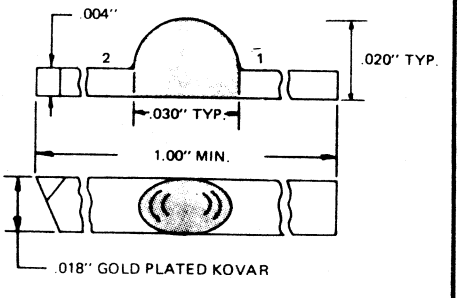


	A	B	C
PD18	.285	.045	.190
PD18a	.340	.040	.200

PD19



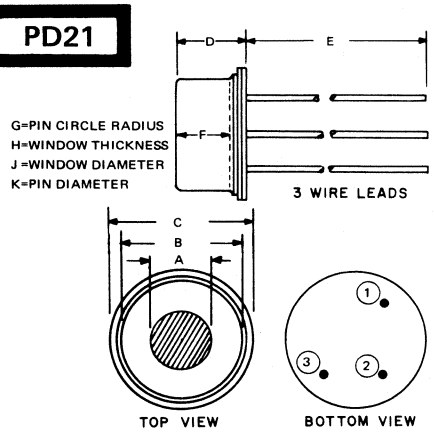
PD20



49. OUTLINE DRAWINGS

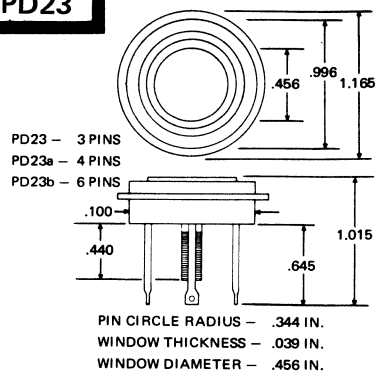
IN DRAWING NUMBER SEQUENCE

PD21



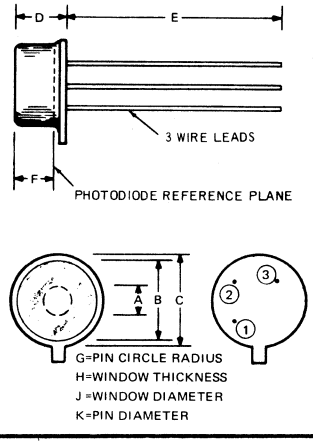
	A	B	C	D	E	F	G	H	J	K
PD21	.440	.820	1.25	.280	.500	.210	.370	.060	.830	.040
PD21a	.299	.503	.551	.295	1.496		.456	.050	.417	.018
PD21b		.470	.550	.210	.410				.410	.017

PD23



PD22

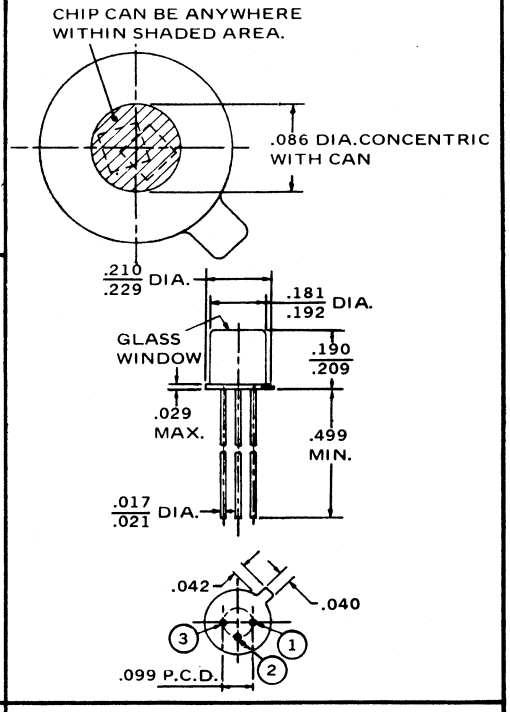
	A	B	C	D	E	F	G	H	J	K
PD22	.100	.330	.360	.170	1.500	.090	.100	.050	.240	.018
PD22a	.160	.480	.550	.200	1.500	.140	.100	.050	.420	.018
PD22b	.039	.330	.358	.165	1.500	.090	.098	.051	.240	.018
PD22c	.039	.181	.244	.200	1.500	.145	.051	.035	.137	.018
PD22d	.098	.330	.358	.165	1.500	.090	.098	.051	.240	.018
PD22e	.137	.484	.551	.200	1.500	.145	.098	.051	.421	.018
PD22f		.325	.360	.250	1.500				.250	.017
PD22g		.230	.318 .330	.240 .259		.106 .145			.037	



PD24

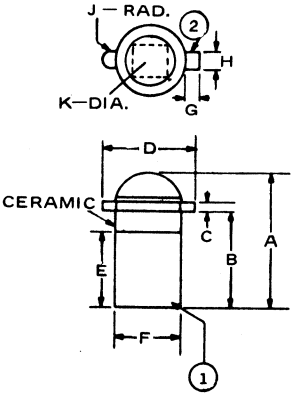
NOTE:
CHIP SIZE=.040x.040
ACTIVE AREA=.024x.024

View looking down on to top of can.

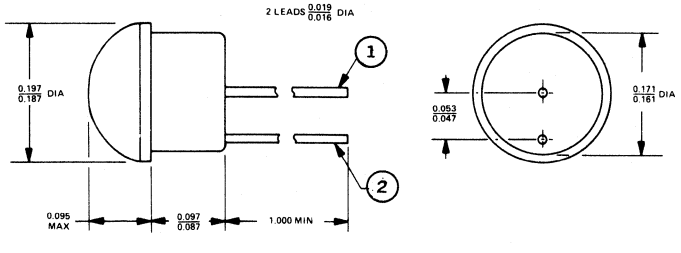


PD25

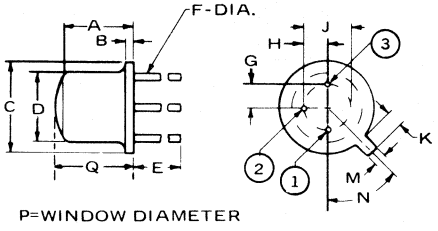
	A	B	C	D	E	F	G	H	J	K
PD25	.122 .135	.082 .088	.005 .010	.084 .092	.063 .067	.058 .062	.009 .019	.016 .024	.009 .011	
PD25a	.109	.085	.007	.088		.060			.020	.030
PD25b	.128	.085	.005	.088		.060			.020	.043
PD25c	.116 .141	.079 .088	.005 .009	.083 .092	.061 .068	.062 MAX		.015 .023		
PD25d	.115 .128	.080 .089	.005 .010		.062 .069	.059 .061			.016 .024	.036 .040
PD25e	.100 .130	.072 .090	.005 .010	.083 .093	.053 .069	.058 .062	.012 .016	.016 .024		
PD25f	.118 .135	.080 .089	.005 .010	.084 .092	.062 .069	.058 .062		.016 .024		.038 .042
PD25g	.102 .118	.080 .089	.005 .010	.084 .094	.062 .069	.058 .062		.016 .024		.028 .034



PD26

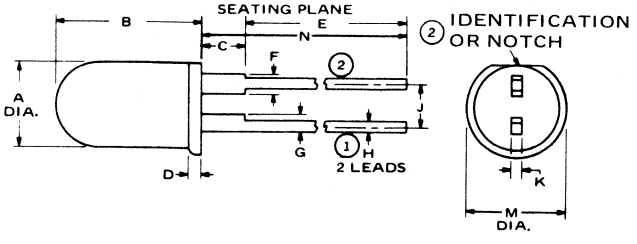


PD27



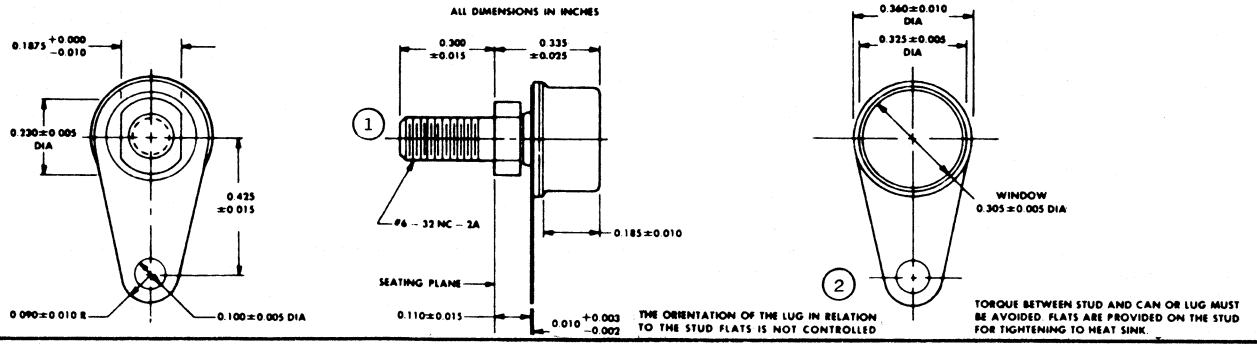
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
PD27	.190 .210	.030 MAX	.209 .230	.178 .195	.500 MIN	.016 .019	.050	.050	.100	.028 .048	.036	45°	.140	
PD27a		.018 .024	.207 .213	.180 .188	.500 MIN	.016 .019			.100	.033 .048	.036 .046	45°	.120	.220 .260
PD27b			.209 .230	.178 .194	.500 MIN	.017 .020			.090 .109	.028 .048	.035 .046		.149	.188 .208
PD27c			.334 .370	.289 .334	.500 MIN	.017 .020			.188 .208	.029 .044	.028 .035		.240	.165 .185
PD27d			.212	.165	.551		.050		.100					.078
PD27e			.205 .215	.178 .188	1.00	.017 .019	.048 .052							.220 .235
PD27f	.190 .210	.300	.209 .230	.180 .190	.500 MIN	.016 .019	.050	.050	.100	.028 .048	.036 .046	45°		
PD27g	.170 .210	.030 MAX	.209 .230	.178 .195	.500 MIN	.016 .019		.050	.100	.028 .048	.036 .046	45°		.190 .230
PD27h	.188 .208		.209 .229		.500 MIN	.016 .018			.090 .109	.027 .048	.035 .046		.153	
PD27j			.228 MAX	.188 MAX	.500 MIN	.018 MAX	.050	.050	.100	.046 MAX	.045 MAX	45°		.271 MAX

PD28

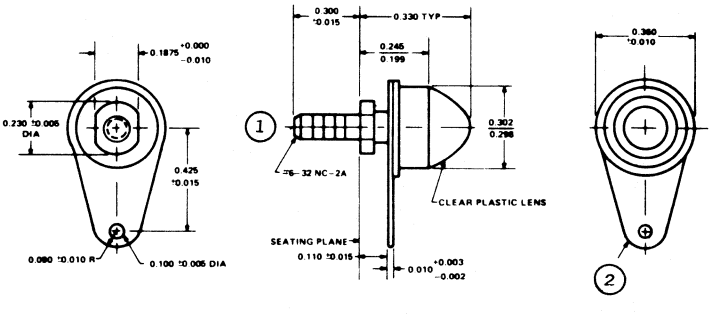


	A	B	C	D	E	F	G	H	J	K	M	N
PD28	.190 .210	.330 .360	.120 .140	.020 .040	.850 MIN	.035 .045	.027 .037	.022 .028	.095 .105	.023 .027	.220 .240	.970 MIN
PD28a	.192	.240		.045				.025	.100	.025		.500 MIN
PD28b	.200	.300	.130	.040	.700 MAX			.025	.100	.025		
PD28c	.192 .200	.283 .291	.125	.039	.492 .511			.019	.100	.019	.220 .228	
PD28d	.192 .200	.330 .338	.098	.039	.492 .511	.039	.027	.019	.100	.019	.220 .228	
PD28e	.190	.340	.100	.040	.450			.025	.100	.025	.230	.550 MIN
PD28f	.190	.340	.130	.040	.420			.025	.100	.025	.230	.550 MIN
PD28g	.200	.338	.096	.039		.039		.025	.100	.025	.228	.905
PD28h	.192 .200	.330 .338	.145	.039	.492 .511	.039	.027	.019	.100	.019	.220 .228	.637 .657
PD28j	.194 .202	.285 .293	.166	.039	.492 .511			.019	.100	.019	.220 .228	.662 .682
PD28k	.192 .200	.248 .255	.157	.039	.492 .511	.039	.027	.019	.100	.019	.220 .228	.649 .688
PD28m	.190 .210	.330 .350	.090 .110	.020 .040	.850 MIN	.040 NOM	.032 NOM	.022 .028	.100 NOM	.023 .027	.220 .240	
PD28n	.196	.340	.103		.684			.021 .027	.100	.021 .027	.230	.787
PD28p	.193 .209	.331 .346	.075 .090	.039	.492 .512	.039	.027	.020	.100	.020	.230 .236	.567 .602
PD28q	.190 .210	.330 .350	.140 .170	.020 .040	.500 MIN	.035 .045	.027 .037	.022 .028	.100	.022 .028	.220 .240	
PD28r	.190 .210	.330 .350	.120 .140	.020 .040	.550 MIN	.035 .045	.027 .037	.025	.095 .105	.025	.220 .240	1.00 MIN
PD28s	.190 .210	.330 .350	.160 .180	.020 .040	.500 MIN	.035 .045	.027 .037	.025	.100	.025	.220 .240	
PD28t	.190 .210	.330 .350	.160 .180	.020 .040	.500 MIN	.035 .045	.027 .037	.022 .028	.095 .105	.026 .039	.220 .240	

PD29



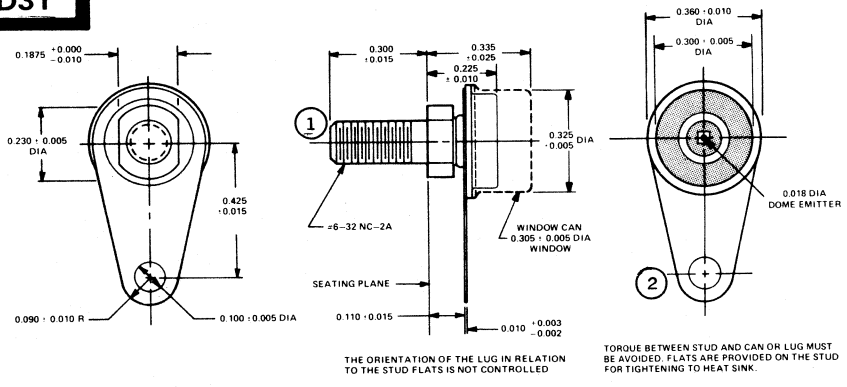
PD30



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

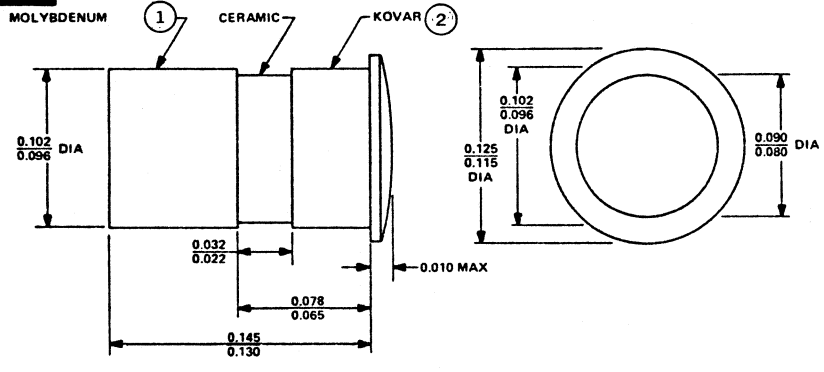
PD31



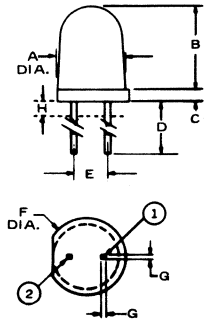
THE ORIENTATION OF THE LUG IN RELATION TO THE STUD FLATS IS NOT CONTROLLED

TORQUE BETWEEN STUD AND CAN OR LUG MUST BE AVOIDED. FLATS ARE PROVIDED ON THE STUD FOR TIGHTENING TO HEAT SINK.

PD32

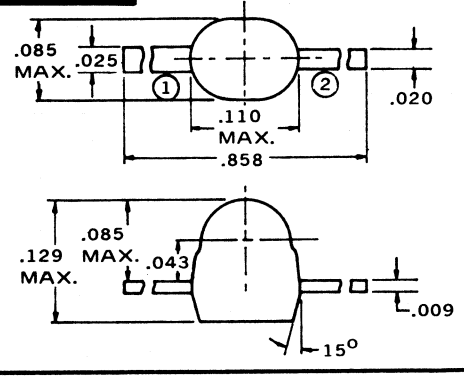


PD33

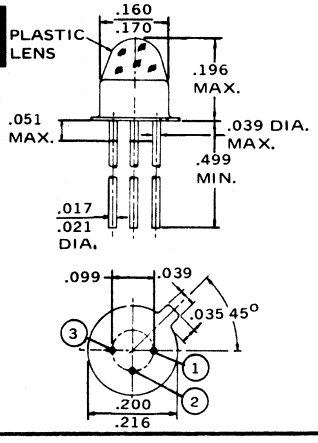


	A	B	C	D	E	F	G	H
PD33	.110 / .130	.170	.020 / .040	.500 MIN	.045 / .055	.140 / .160	.018 / .024	
PD33a	.190	.240	.030 / .060	.500 MIN	.100	.230	.013 / .023	.050
PD33b	.200	.170	.060	.500 MIN	.100	.230	.013 / .023	
PD33c	.205 MAX	.355 / .380	.055 / .070	.500 MIN	.090 / .110	.225 / .235	.016 / .019	
PD33d	.190	.300	.040	1.000 MIN	.100	.230	.025	
PD33e	.200	.340	.040	.750 MIN	.100	.230	.020	
PD33f	.118	.177	.019	.492	.050	.157	.015	
PD33g	.110 / .125	.180 / .200	.030	.500 MIN	.050 / .060	.150 / .160	.018 / .022	
PD33h	.110 / .130	.190 / .210	.020 / .040	.500 MIN	.045 / .055	.140 / .160	.018 / .022	
PD33j	.200	.300	.040	.500 MIN	.100	.230		
PD33k	.110 / .130	.190 / .210		.500 MIN	.045 / .055	.145 / .160	.018 / .024	

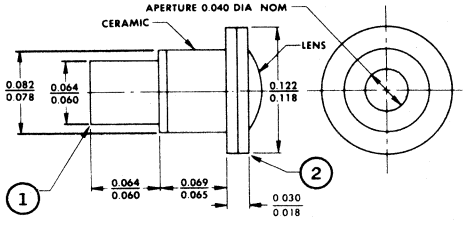
PD36



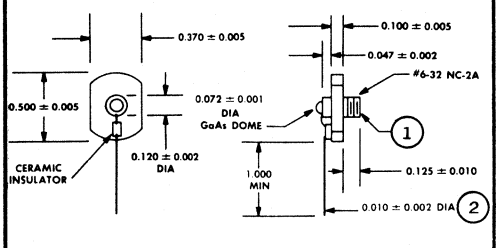
PD37



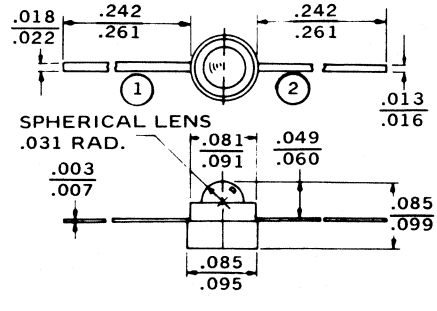
PD38



PD39



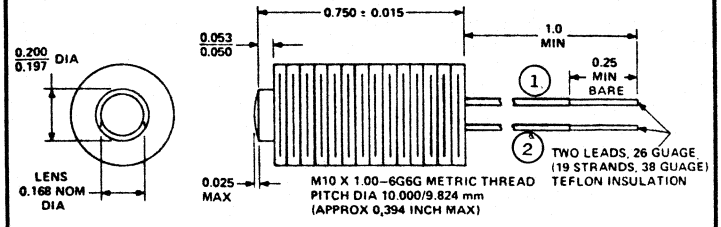
PD40



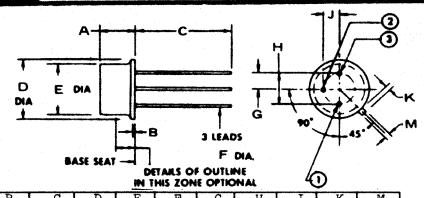
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD41



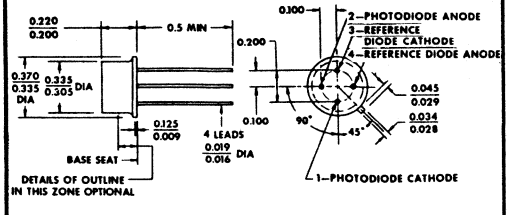
PD42



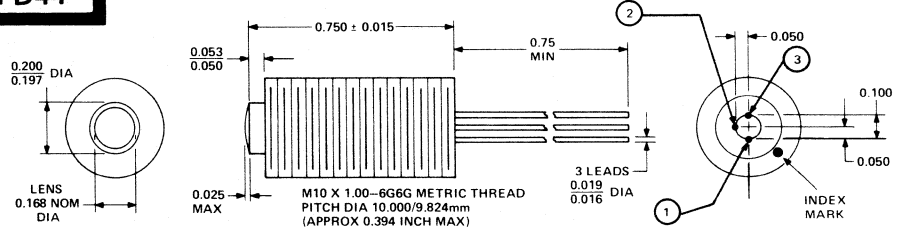
	A	B	C	D	E	F	G	H	J	K	M
PD42	.200 .220	.009 .125	.500 MIN	.335 .370	.305 .335	.016 .019	.100	.200	.100	.029 .045	.028 .034
PD42a	.150 .170	.020 .030	1.500 MIN	.335 .370	.305 .335	.016 .019	.100	.200	.100	.029 .045	.028 .034
PD42b	.240 .260	.009 .125	1.500 MIN	.335 .370	.305 .335	.016 .019	.100	.200	.100	.029 .045	.028 .034
PD42c	.259 MAX		1.499 MIN	.370 MAX	.334 MAX	.018 MAX	.100	.200	.100	.039 MAX	.033 MAX
PD42d	.208 MAX		.499 MIN	.228 MAX	.188 MAX	.018 MAX	.049	.099	.049	.046 MAX	.045 MAX
PD42e	.216 MAX		.499 MIN	.228 MAX	.188 MAX	.018 MAX	.049	.099	.049	.046 MAX	.045 MAX
PD42f	.249	.015	1.496 MAX	.350	.320	.018 MAX	.099	.199	.099	.033	.031
PD42g	.232		.500 MAX	.228	.188 MAX	.021 MAX		.100	.500	.046 MAX	.045 MAX
PD42h	.196		.551	.212	.185			.100			
PD42j	.165 .185			.335 .370	.290 .335	.017 .021		.190 .210		.029 .045	.028 .035

PD43

THE REFERENCE DIODE CATHODE IS IN ELECTRICAL CONTACT WITH THE CASE

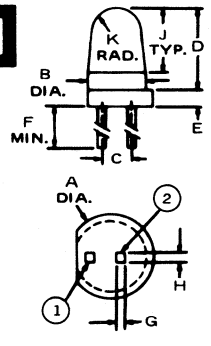


PD44



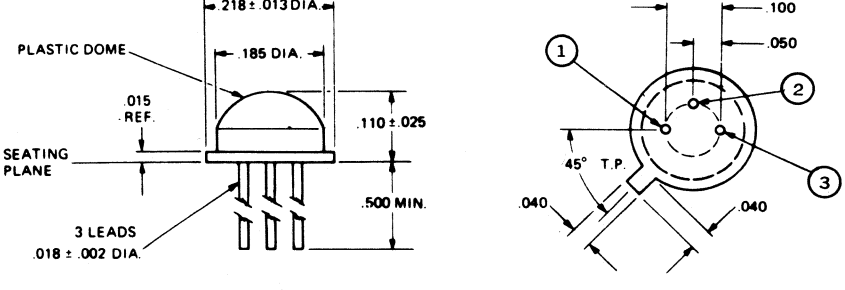
Dimensions without tolerance designate true position. Leads having maximum diameter (0.019") measured in gaging plane 0.054" +0.001" −0.000" below the seating plane of the device shall be within 0.007" of their true positions.

PD47

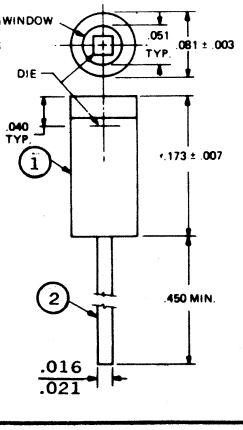


	A	B	C	D	E	F	G	H	J	K
PD47	.220	.185	.100	.290	.045 .075	.500 MIN	.013 .023	.013 .023	.225 TYP	.080
PD47a	.230	.194	.100	.240	.029 .059	.590	.031	.011		

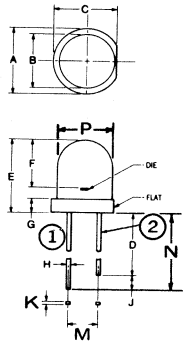
PD48



PD49

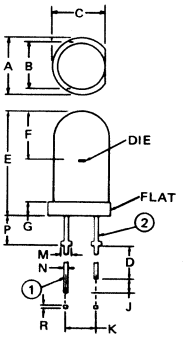


PD50



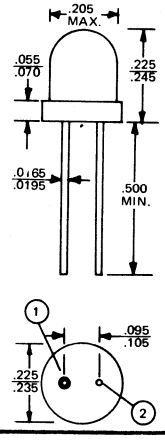
	A	B	C	D	E	F	G	H	J	K	M	N	P
PD50	.220 .240	.180 .200	.215	.500 .740 TYP	.210 .250	.165	.038 .062	.014 .020	.050	.013 .017	.100		
PD50a	.220 .240	.180 .200	.215	.500 .630 TYP	.320 .360	.165	.038 .062	.014 .020	.050	.013 .017	.100		
PD50b	.220 .240	.180 .200	.215	.500 .690	.265 .305	.165	.038 .062	.014 .020	.050	.013 .017	.100		
PD50c	.230			.500 MIN	.285		.050	.017		.015	.100		
PD50d	.220 .240	.170 .200		.600 MIN	.313 .373		.025 .035	.014 .020	.040 MIN	.014 .016	.100		
PD50e	.240 .250	.185 .195					.035 .055	.022 .028		.018 .022	.100	.450 .500	.160
PD50f	.230	.200		.500 MIN	.340			.022 .028		.018 .022	.100		
PD50g	.230	.180 .203		.215	.300			.020		.020	.100	1.125	
PD50h	.228				.291		.039	.019		.019	.100	.677	.200
PD50j	.228				.338		.039	.019		.019	.100	.657	.200
PD50k	.220 .240	.170 .200		1.000 MIN	.210 .250		.055 .065	.014 .020	.050 MIN	.014 .016	.100 NOM	1.050 MIN	
PD50m	.230	.200		1.000 MIN	.340		.030	.020	.050	.020	.100 NOM	1.050 MIN	
PD50n	.220 .240	.205 MAX		1.000 MIN	.225 .250		.055 .075	.020 .023		.020 .023	.095 .105		
PD50p	.220 .240	.205 MAX		1.000 MIN	.355 .380		.055 .075	.020 .023		.020 .023	.095 .105		
PD50q	.140 .160	.110 .130		.500 MIN	.190 .210		.020 .040	.018 .022		.018 .022	.045 .055		
PD50r	.225 .235			1.000 MIN	.340 .360		.020 .040	.014 .018	.030 .050	.013 .017	.090 .110		.195 .205
PD50s	.230	.190		.500 MIN	.285		.050	.017	.050	.015	.100	.550 MIN	
PD50t	.220 .240	.190 .210		.750 MIN	.330 .360		.020 .040	.018 .022	.050 MIN	.018 .022	.095 .105	.800 MIN	.190 .210
PD50u	.220 .240	.170 .200		1.000 MIN	.313 .373		.025 .035	.014 .025		.014 .016	.100 NOM	1.050 MIN	.170 .200
PD50v	.230	.180 .200	.215	.680 .705	.260 .295		.042 TYP	.015	.040 MIN	.017		.720 .745	.180 .200
PD50w	.230	.180 .200	.215	.720 .745	.205 .240		.042 TYP	.015	.040 MIN	.017		.760 .785	.180 .200
PD50x	.230	.180 .200	.215	.625 .650	.315 .350		.042 TYP	.015	.040 MIN	.017		.665 .690	.180 .200
PD50z	.230		.215	1.060	.285		.050	.019	.050	.019	.100		.190

PD52

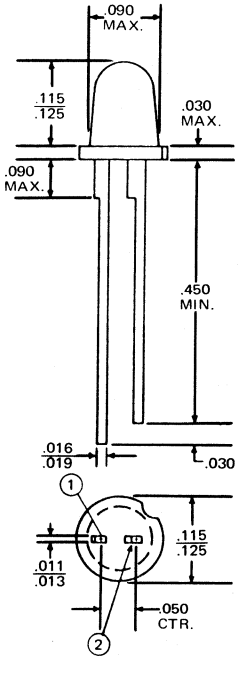


	A	B	C	D	E	F	G	J	K	M	N	P	R
PD52	.200 .240	.180 .200	.215	.500 .528 TYP	.320 .360	.165	.038 .062	.050	.100	.040 .060	.022 .028	.085 .115	.023 .027
PD52a	.230	.190		.400	.340		.050	.050	.100	.050	.025	.100	.025
PD52b	.230	.180 .220	.215	.520 TYP	.315 .350		.042 TYP	.040 MIN			.025	.112 TYP	.025
PD52c	.230	.190		.500 MIN	.340		.050	.050	.100	.050	.025	.100	.025

PD53



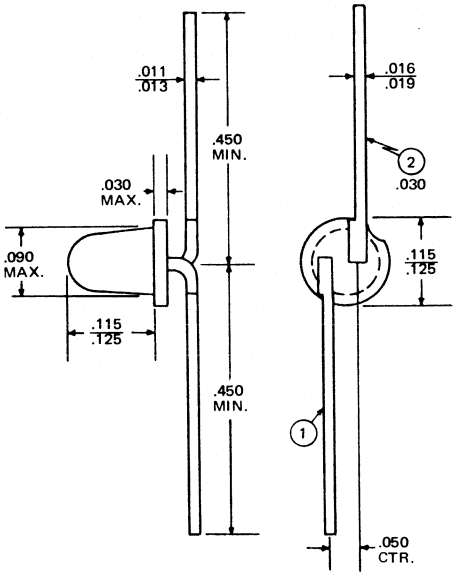
PD54



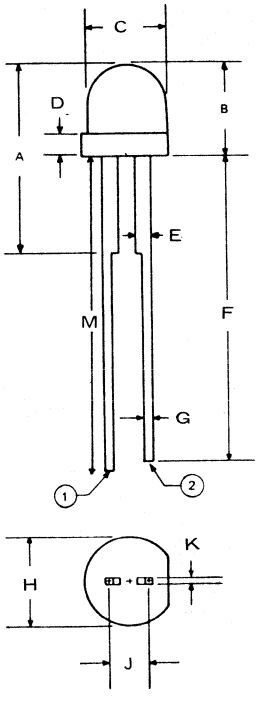
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD55

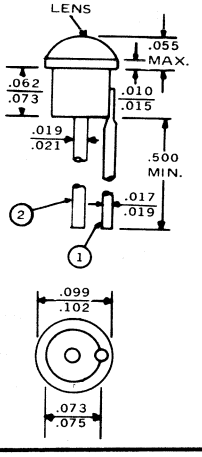


PD56

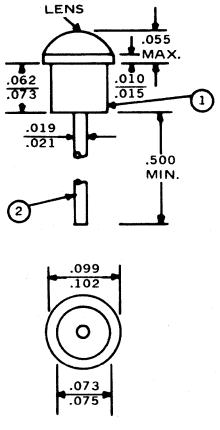


	A	B	C	D	E	F	G	H	J	K	M
PD56	.560	.355 .380	.205 MAX	.055 .070	.040	1.00 MIN	.020 .023	.225 .235	.095 .105	.020 .023	
PD56a	.510	.355 .380	.205 MAX	.055 .070	.040	1.00 MIN	.020 .023	.225 .235	.095 .105	.020 .023	
PD56b	.480	.355 .380	.205 MAX	.055 .070	.040	1.00 MIN	.020 .023	.225 .235	.095 .105	.020 .023	
PD56c	.510	.225 .245	.205 MAX	.055 .070	.040	1.00 MIN	.020 .023	.225 .235	.095 .105	.020 .023	
PD56d	.480	.225 .245	.205 MAX	.055 .070	.040	1.00 MIN	.020 .023	.225 .235	.095 .105	.020 .023	
PD56e	.266	.196	.118	.023		.590	.019	.149		.017	.669

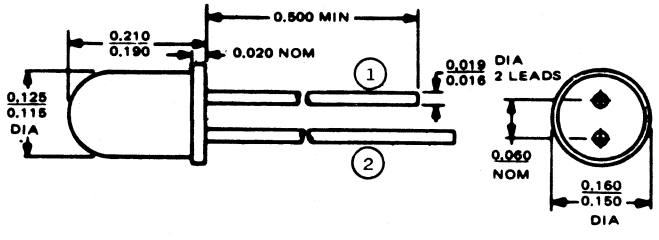
PD58



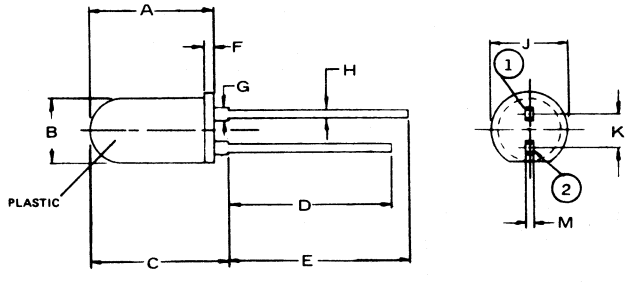
PD59



PD61

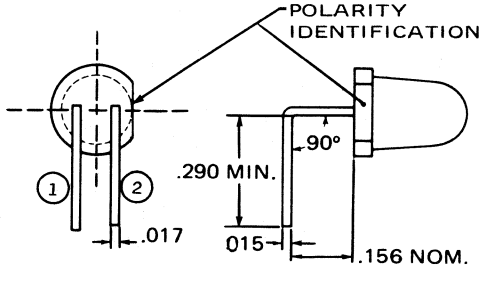


PD62

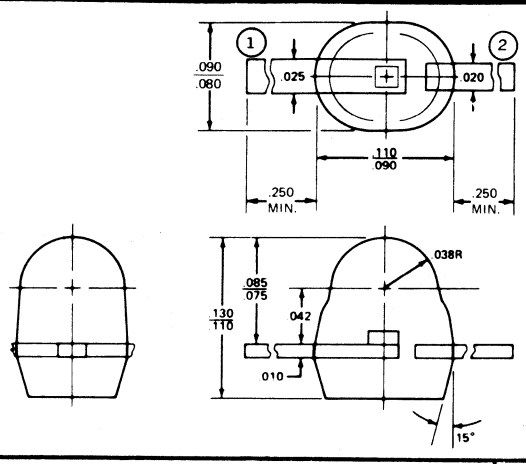


	A	B	C	D	E	F	G	H	J	K	M
PD62	.343	.185	.430	.500 MIN	.550 MIN	.030	.040	.025	.230	.100	.025
PD62a	.393	.196	.511	.354	.433	.039	.033	.025	.236	.098	.025
PD62b	.340	.200		.900 MIN	.950 MIN	.040	.040	.025	.230	.100	.025
PD62c	.313 .373	.185		1.00 MIN	1.05 MIN	.030	.014 .025	.014 .025	.230	.100	.014 .016

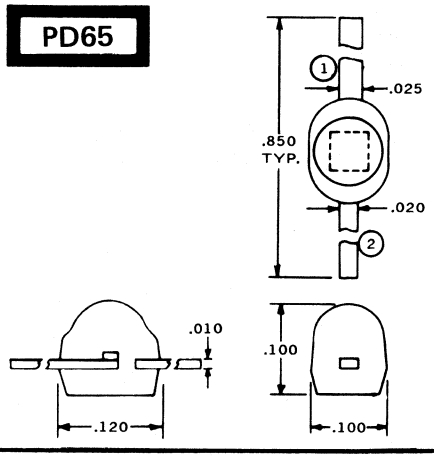
PD63



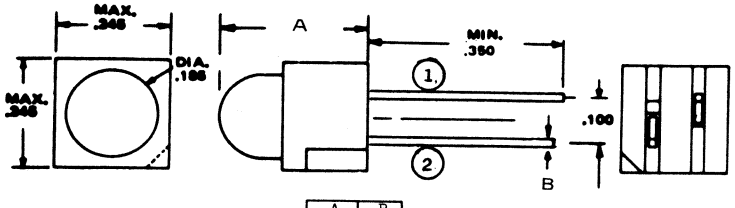
PD64



PD65

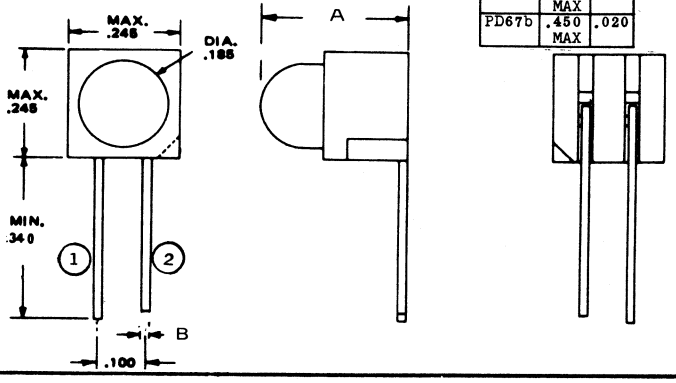


PD66



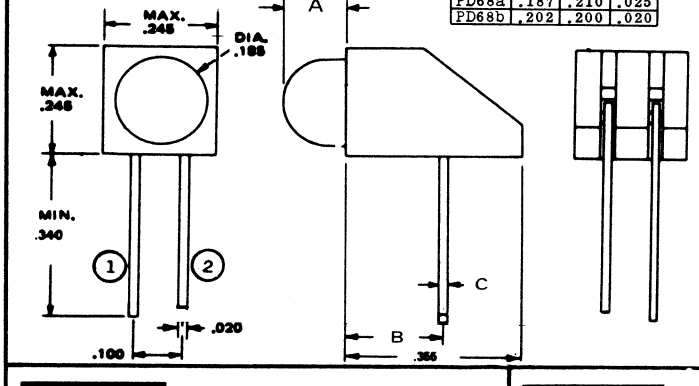
	A	B
PD66	.380 MAX	.020
PD66a	.437 MAX	.025
PD66b	.450 MAX	.020

PD67



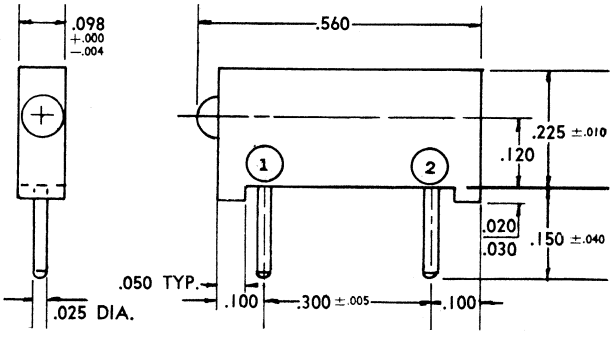
	A	B
PD67	.380 MAX	.020
PD67a	.437 MAX	.025
PD67b	.450 MAX	.020

PD68

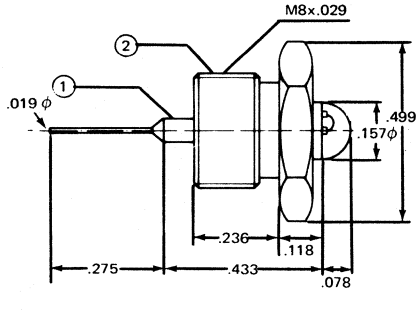


	A	B	C
PD68	.125	.200	.020
PD68a	.187	.210	.025
PD68b	.202	.200	.020

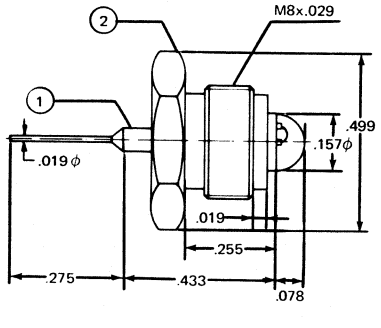
PD69



PD73



PD74

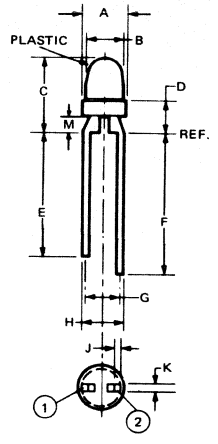


49. OUTLINE DRAWINGS

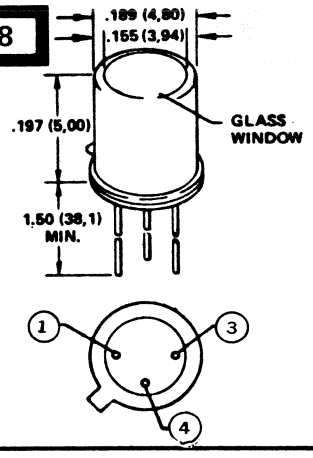
IN DRAWING NUMBER SEQUENCE

PD77

	A	B	C	D	E	F	G	H	J	K	M
PD77	.115 .135	.105 .125	.200 .240	.070 .110	.560 MIN	.610 MIN	.080 .100	.120 MAX	.015 .025	.015 .025	
PD77a	.130 MAX	.105 .125	.190 .250		.550 MIN	.600 MIN	.090	.120 MAX	.015 .025	.015 .025	.060
PD77b	.105 .125	.115 .135	.200 .240	.070 .110	.685 .700	.735 .750	.080 .100		.015 .025	.015 .025	
PD77c	.122 .125	.110 .114	.216 .232		.559 .590	.610 .649	.90			.019	.047
PD77d	.122 .125	.110 .114	.252 .267		.559 .590	.645 .649	.090		.019	.019	.063 MIN
PD77e	.135 MAX		.220 TYP		.550 MIN	.600 MIN		.120 MAX	.020 NOM	.020 NOM	.040 TYP

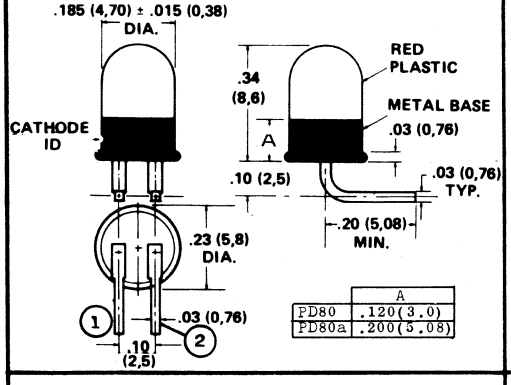


PD78



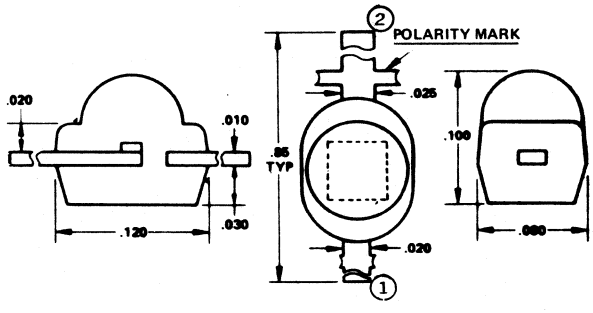
PD80

INCH (MM)

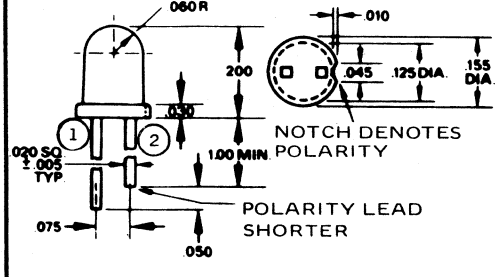


	A
PD80	.120(3.0)
PD80a	.200(5.08)

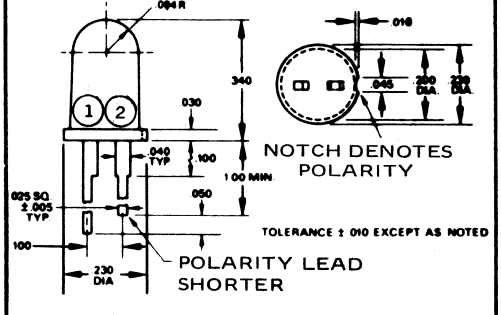
PD81



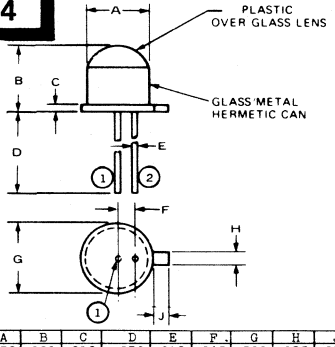
PD82



PD83

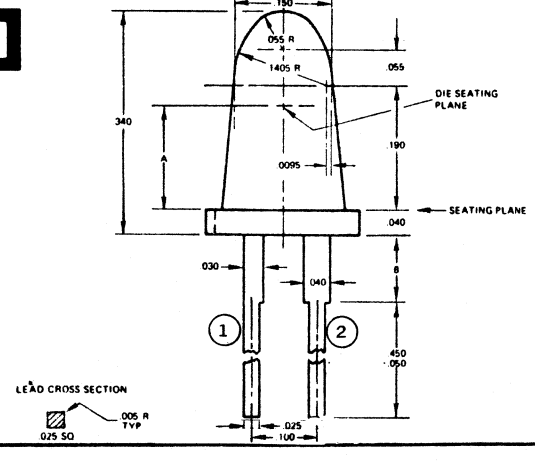


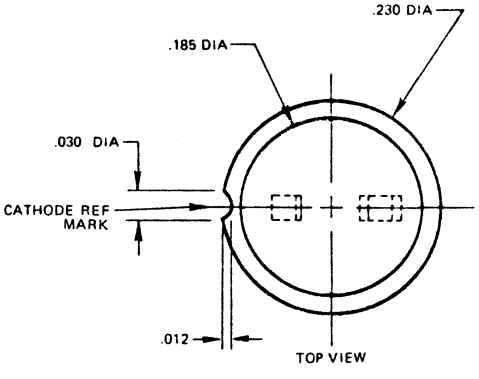
PD84



	A	B	C	D	E	F	G	H	J
PD84	.176 .190	.180 .225	.016 .024	.970 1.030	.016 .020	.045 .055	.200 .220	.035 .045	.032 .042
PD84a	.176 .190	.140 .157	.016 .024	.970 1.030	.016 .019	.045 .055	.200 .220	.035 .045	.032 .042

PD85



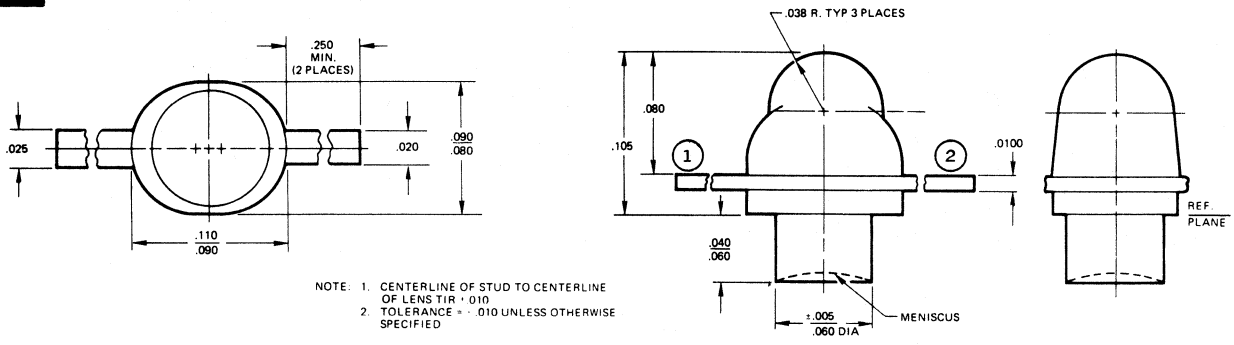


DIM	A	B
PD85	.190	.100
PD85a	.175	.115
PD85b	.160	.130
PD85c	.145	.145

49. OUTLINE DRAWINGS

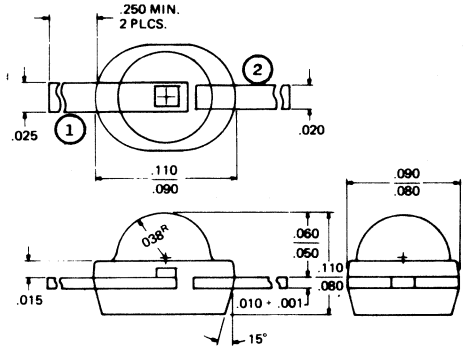
IN DRAWING NUMBER SEQUENCE

PD86



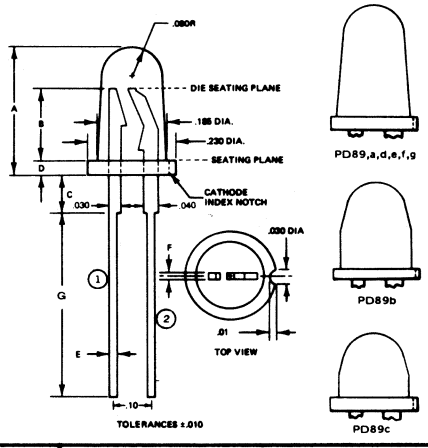
NOTE: 1. CENTERLINE OF STUD TO CENTERLINE OF LENS TIR ± .010
2. TOLERANCE ± .010 UNLESS OTHERWISE SPECIFIED

PD88

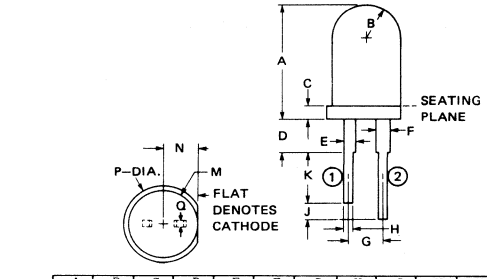


PD89

	A	B	C	D	E	F	G
PD89	.340	.190	.100	.040	.025	.025	.400 / .500
PD89a	.340	.160	.130	.040	.025	.025	.400 / .500
PD89b	.270	.125	.100	.030	.020	.020	.400 / .500
PD89c	.212	.0625	.100	.040	.020	.020	.400 / .500
PD89d	.340	.175	.115	.040	.025	.030	.400 / .500
PD89e	.340	.145	.145	.040	.025	.030	.400 / .500
PD89f	.340		.100	.040	.025	.025	.650 / .750
PD89g	.340		.130	.040	.025	.025	.650 / .750
PD89h	.340		.190	.040	.025	.025	.650 / .750

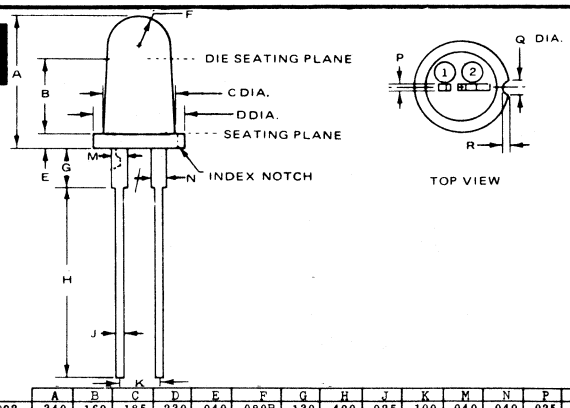


PD90



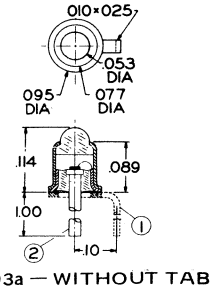
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
PD90	.330 / .350	.090 / .110	.030 / .050	.090 / .110	.020 / .040	.030 / .050	.090 / .110	.010 / .030	.040 / .060	.740 / .760	.190 / .210	.090 / .110	.220 / .240	.010 / .030
PD90A	.275		.035				.100	.025	.050	.500 MIN	.192			.025

PD92



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	REMARKS
PD92	.340	.160	.185	.230	.040	.080R	.130	.400 / .500	.025	.100	.040	.040	.025	.030	.010	INDEX NOTCH
PD92a	.354		.177 / .192	.244	.039		.099	.529	.025	.099						DESIG NOTCH ON LEAD

PD93

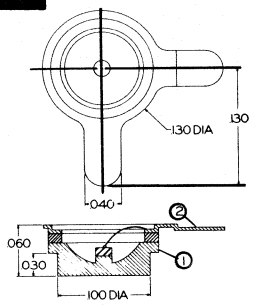


PD93a — WITHOUT TAB

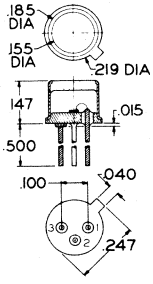
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

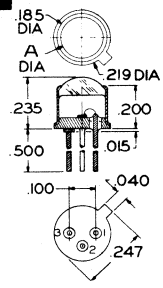
PD94



PD95

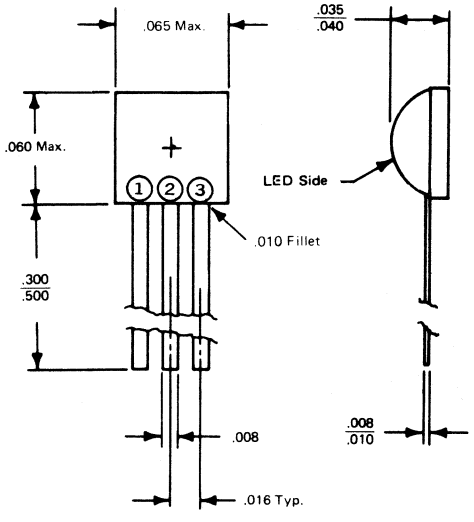


PD96

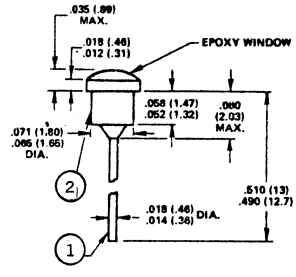


	A
PD96	.140
PD96a	.148
PD96b	.155

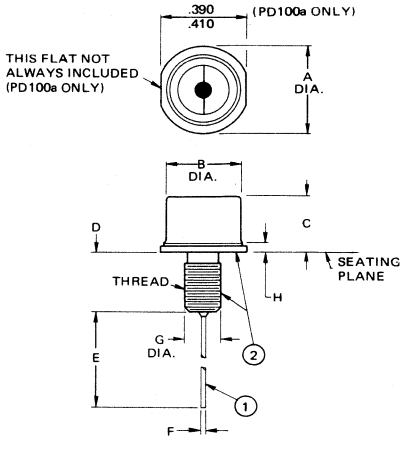
PD97



PD99

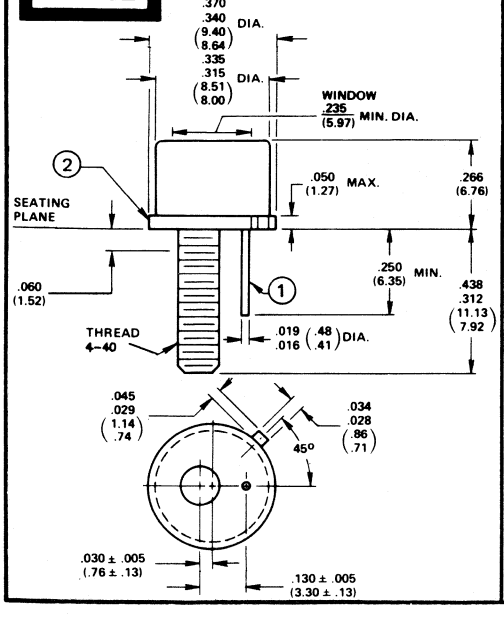


PD100

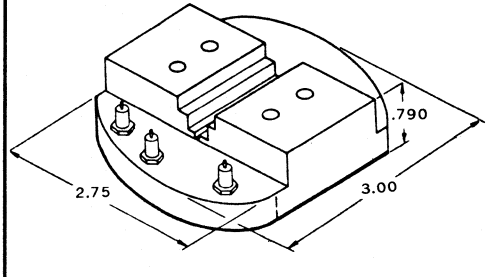


	A	B	C	D	E	F	G	H	THREAD	REMARKS
PD100	.235 .265	.170 .190	.160 .195	.340 MAX	.750 MIN	.016 .021			8-32	
PD100a	.425 .450	.325 .335	.255 .280	.286 .315	.750 1.10	.018 .022	.165 .169	.035 .050	10-32	
PD100b	.425 .450	.330 .365	.580 .640	.286 .315	.750 1.10	.018 .022	.165 .169	.030 .040	10-32	Fiber Optic Output Cable 127mm min length
PD100c	.235 .265	.170 .190	.160 .195	.340 MAX	.750 MIN	.016 .021			8-32	Laser Chip is Geometrically Centered in the Pkg
PD100d	.425 .450	.325 .335	.255 .280	.286 .315	.750 1.10	.018 .022	.165 .169	.035 .050	10-32	Laser Chip is Geometrically Centered in the Pkg

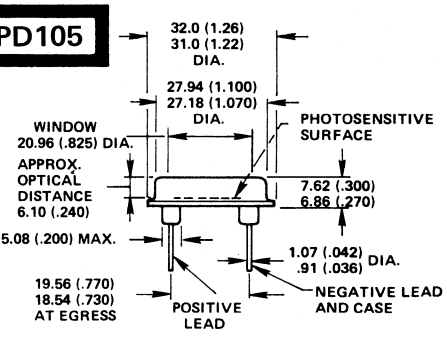
PD102



PD103



PD105

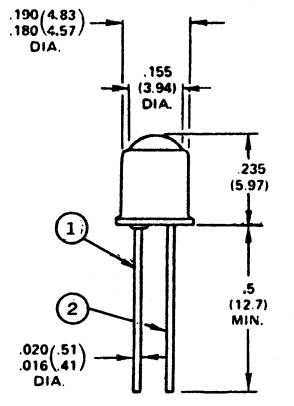


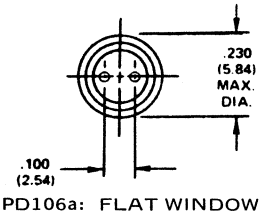
Dimensions in millimeters.
Dimensions in parentheses are in inches.

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

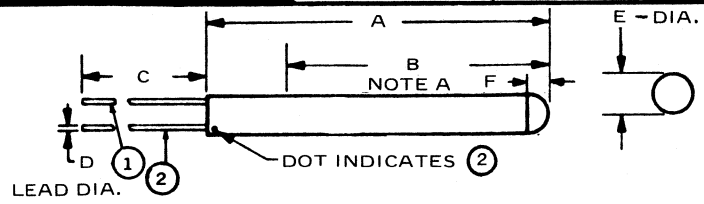
PD106





PD106a: FLAT WINDOW

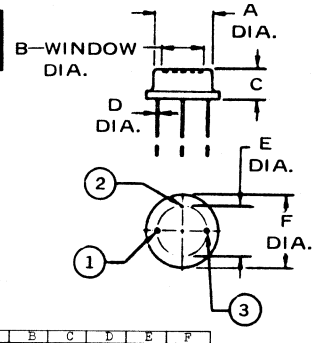
PD107



NOTES: A. WITHIN THIS ZONE, BODY DIAMETER IS $\frac{.076}{.082}$

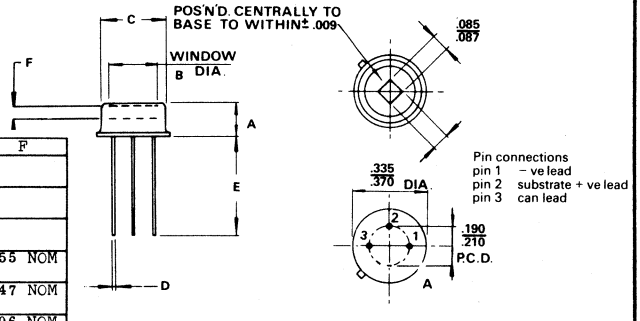
	A	B	C	D	E	F	NOTE A
PD107	.400 .500	.300	1.300 MIN	.009 .011	.076 .085		YES
PD107a	.368 MAX		1.102 MIN	.014 MAX	.102 .110		NO
PD107b	.362 MAX		.905 MIN	.014 MAX	.082		NO
PD107c	.362 MAX		.905 MIN	.014 MAX	.110		NO

PD108



	A	B	C	D	E	F
PD108	.444 .524	.375	.200 .250	.017 .021	.400 .440	.550 .650
PD108a	1.100	.810	.270	.040	.730	1.250
PD108b	.497	.360	.220	.018	.420	.575
PD108c	.444 .524		.270 .330	.027 .033	.272 .292	.500 .650

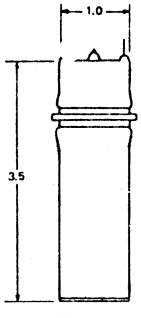
PD109



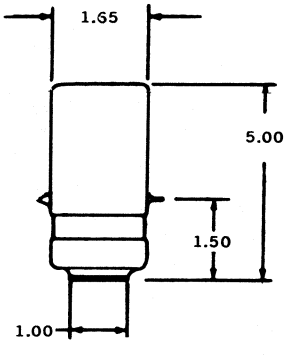
	A	B	C	D	E	F
PD109	.165 .185	.240	.290 .335	.017 .021		
PD109a	.200 .260	.100	.290 .335	.017 .021		
PD109b	.200 .260	.200	.290 .335	.017 .021		
PD109c	.110 .141	.232	.314 .324	.016 .018	.500 MIN	.055 NOM
PD109d	.110 .141	.232	.314 .324	.016 .018	.500 MIN	.047 NOM
PD109e	.240 .259	.232	.314 .324	.016 .018	.500 MIN	.106 NOM

(SUFFIX)	DIODE OPTION
-R	Electricaly Isolated from the Can
-2	Centrally Mounted to A Tolerance ±0.25mm on the Header
-R2	Electricaly Isolated and Centraly Mounted

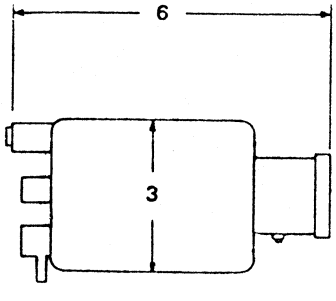
PD110



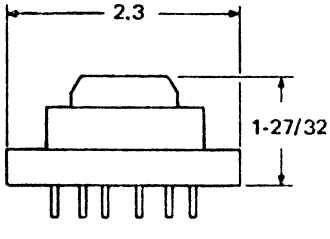
PD111



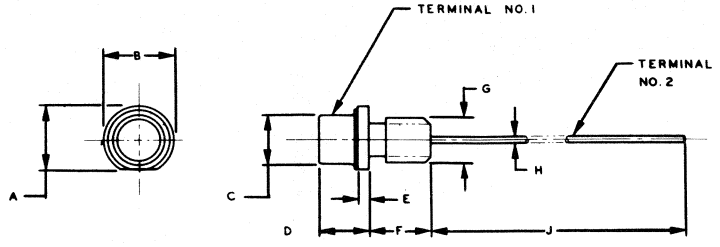
PD112



PD113

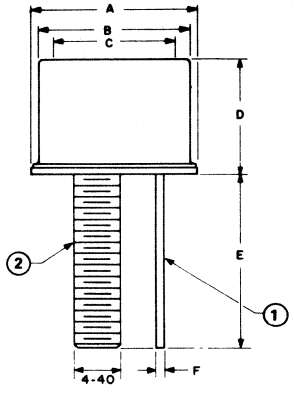


PD114

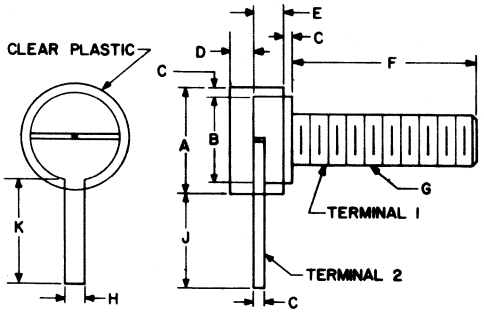


	A	B	C	D	E	F	G	H	J
PD114	.418	.437	.325	.285	.030	.200	10-32	.035	1.09
PD114a	.232	.250	.183	.176	.040	.200	8-32	.030	1.13

PD115

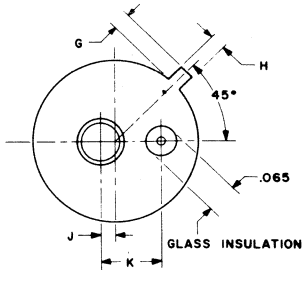


PD116

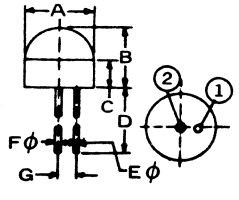


SYMBOL	INCHES	MILLIMETERS
	TYP.	TYP.
A	.220	5.588
B	.180	4.572
C	.020	.508
D	.050	1.270
E	.060	1.524
F	.375	9.525
G	4-40 THD.	———
H	.040	1.016
J	.250	6.350
K	.270	6.858

SYMBOL	INCHES	MILLIMETERS
	TYP.	TYP.
A	.355	9.017
B	.325	8.255
C	.260	6.604
D	.255	6.477
E	.375	9.525
F	.017	.432
G	.037	.940
H	.031	.787
J	.030	.762
K	.130	3.302

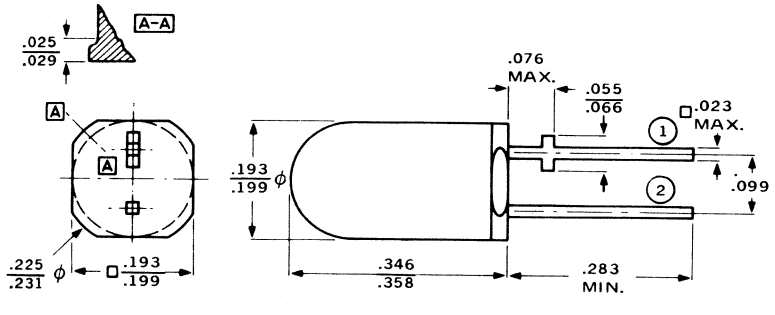


PD118



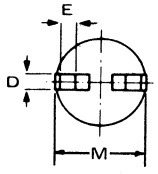
	A	B	C	D	E	F	G
PD118	.120	.130	.079	.490	.012	.018	.035
PD118a	.106 / .129	.157	.078	.433 MIN	.011	.017	.035
PD118b	.117	.138	.079	.531	.012	.018	.035
PD118c	.120	.161	.081	.531	.010	.020	.040
PD118d	.120	.140	.080	.490	.010	.020	.035
PD118e	.138	.157	.083	.827	.014		.039

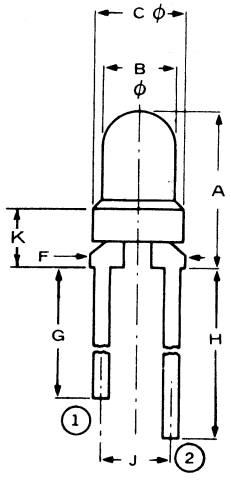
PD119



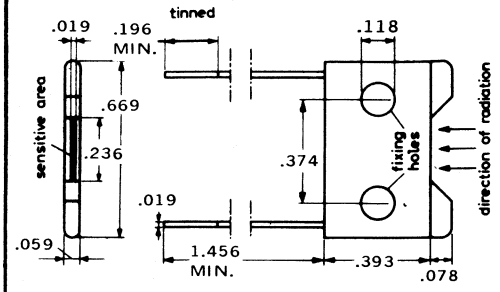
PD120

	A	B	C	D	E	F	G	H	J	K	M
PD120	.188 / .248	.104 / .124	.129 MAX	.016 / .022	.019	.129 MAX	.551 MIN	.610 MIN	.099		
PD120a	.228 / .248	.094 / .102	.118 / .124			.129 MAX	.551 MIN	.610 MIN	.099		
PD120b	.200 / .240	.104 / .124	.114 / .133		.022 MAX		.551	.610	.100	.070 / .110	.129
PD120c	.275	.118	.137	.020			.787	.924	.100	.137	.137



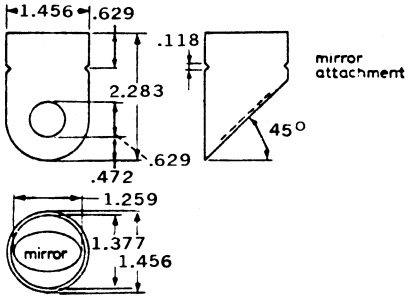


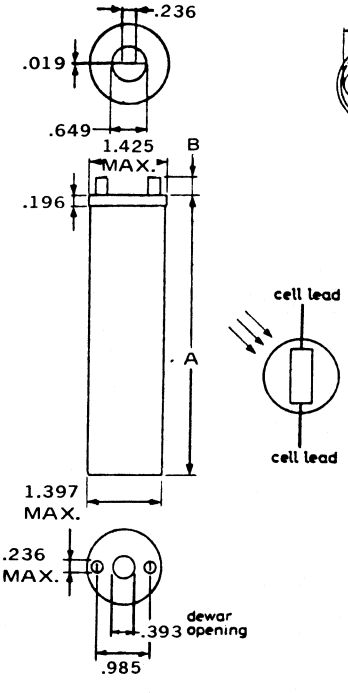
PD121

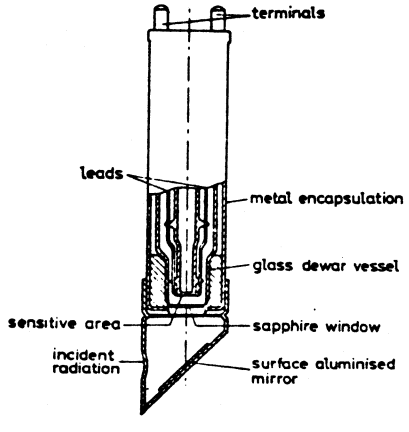


PD122

	A	B
PD122	5.078 MAX	.354 MAX
PD122a	4.999 MAX	.314 MAX

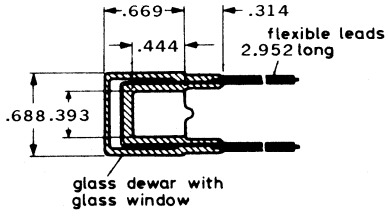


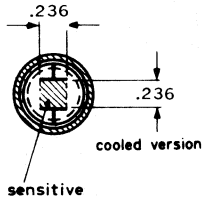




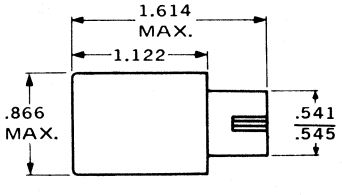
PD123

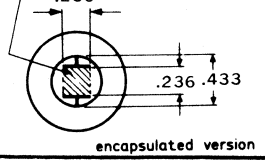
Cooled version



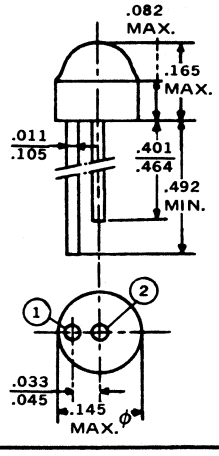


Encapsulated version





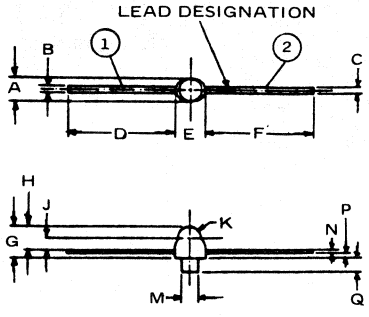
PD124



49. OUTLINE DRAWINGS

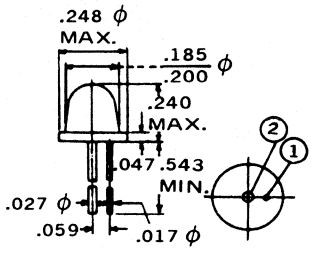
IN DRAWING NUMBER SEQUENCE

PD125

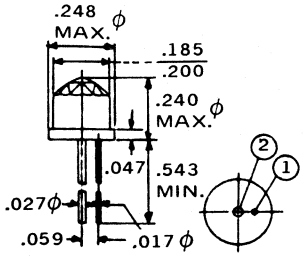


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
PD125	.072 .092	.021 .029	.015 .023	.350 .389	.088 .111	.350 .389	.093 .116	.072 .089	.041	.038	.055 .063	.009 .010	.014	.035 .059
PD125a	.070 .086			.360 .379	.090 .110	.360 .379	.094 .118	.078	.042	.038	.057 .061	.009 .010	.014	.043 .051
PD125b		.027	.021	.503		.503		.072		.070	.094			

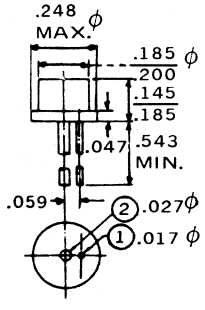
PD126



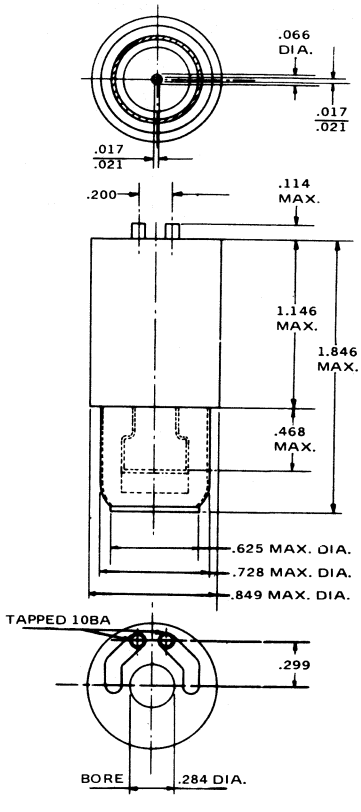
PD127



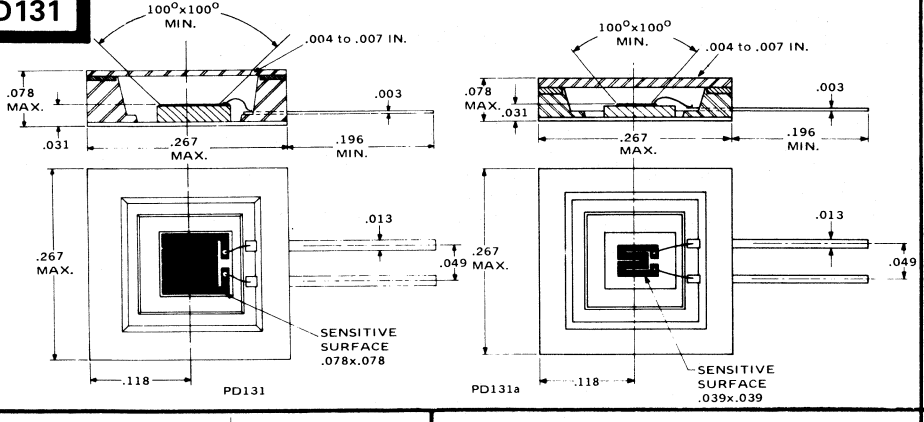
PD128



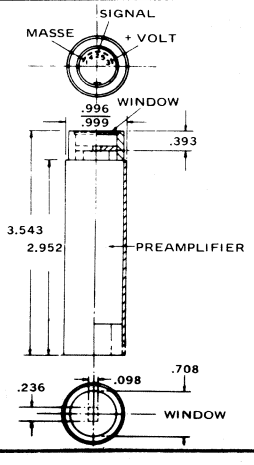
PD130



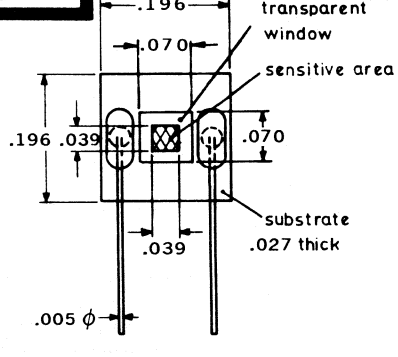
PD131



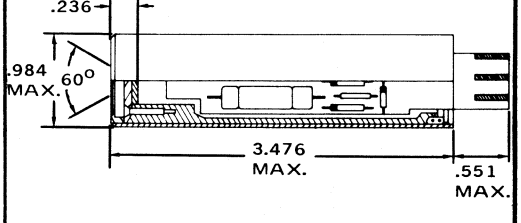
PD132



PD133



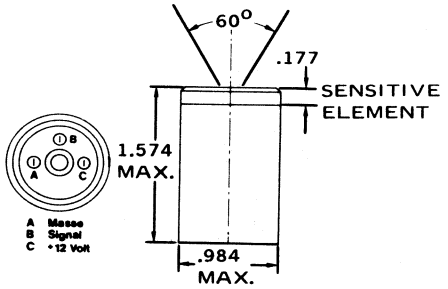
PD134



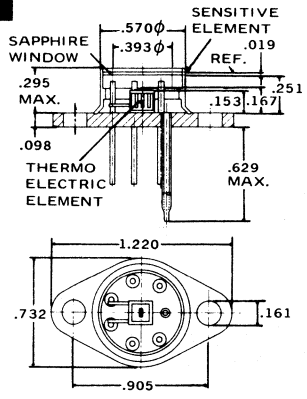
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

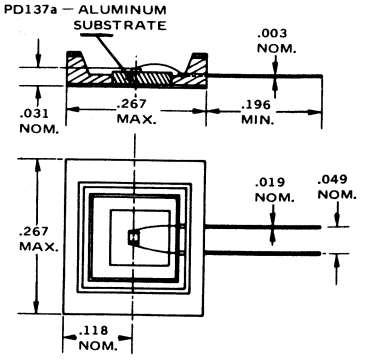
PD135



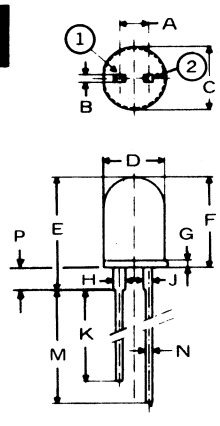
PD136



PD137

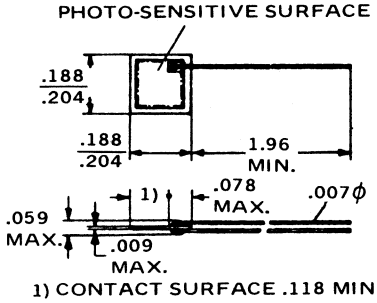


PD138



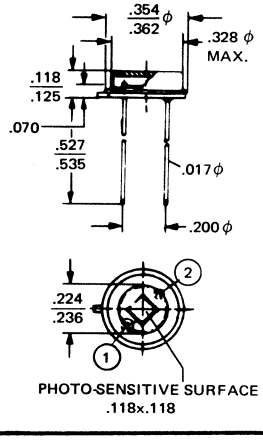
	A	B	C	D	E	F	G	H	J	K	M	N	P
PD138	.099	.022 .027	.220 .240	.179 .204	.389 .448	.311 .370	.025 .035	.039	.029	.499 MIN	.551 MIN	.022 .027	.078 TYP
PD138a	.100	.020 .030	.230	.200	.440	.340	.030		.040 TYP	.900 MIN	.950 MIN	.020 .030	.100

PD142

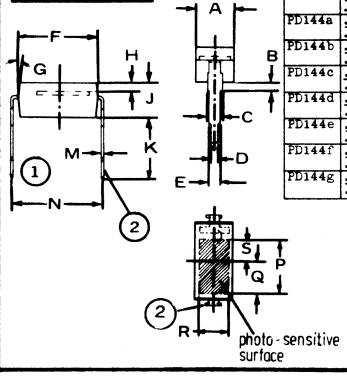


1) CONTACT SURFACE .118 MIN.

PD143

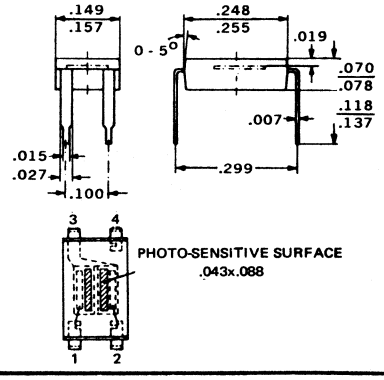


PD144

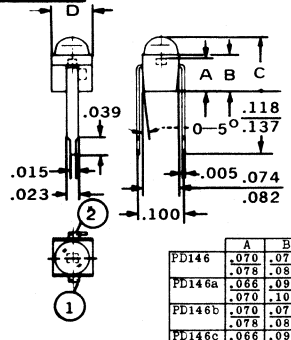


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S
PD144	.076 .086	.019	.035 .043	.015	.027	.169 .185	5°	.019	.070 .078	.118 .137	.007	.200	.125	.070	.070	
PD144a	.149 .157	.019	.035 .043	.015	.027	.169 .185	5°	.019	.070 .078	.118 .137	.007	.200	.118	.070	.118	
PD144b	.051 .059	.010	.035 .043	.015	.027	.169 .185	5°	.019	.070 .078	.118 .137	.007	.200	.059		.039	.019
PD144c	.070 .078	.019	.035 .043	.015	.027	.169 .185	5°	.019	.070 .078	.118 .137	.007	.200	.059		.059	
PD144d	.149 .157	.019	.035 .043	.015	.027	.169 .177	0° 5°	.019	.070 .078	.118 .137	.007	.200	.108	.054	.108	.054
PD144e	.070 .078	.019	.035 .043	.015	.027	.169 .177	0° 5°	.019	.070 .078	.118 .137	.007	.200	.039	.019	.039	.019
PD144f	.051 .059	.019	.035 .043	.015	.027	.169 .177	0° 5°	.019	.070 .078	.118 .137	.007	.200	.049	.024	.029	.024
PD144g	.078 .086	.019	.035 .043	.015	.027	.169 .177	0° 5°	.019	.070 .078	.118 .137	.007	.200	.120	.060	.064	.060

PD145



PD146

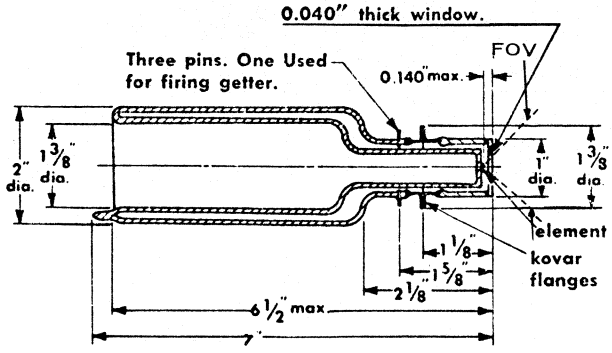


	A	B	C	D
PD146	.070 .078	.078 .086	.122 MAX	.078 .086
PD146a	.066 .070	.098 .106	.137 MAX	.078 .086
PD146b	.070 .078	.078 .086	.122 MAX	.082 .090
PD146c	.066 .070	.098 .106	.137 MAX	.082 .090

49. OUTLINE DRAWINGS

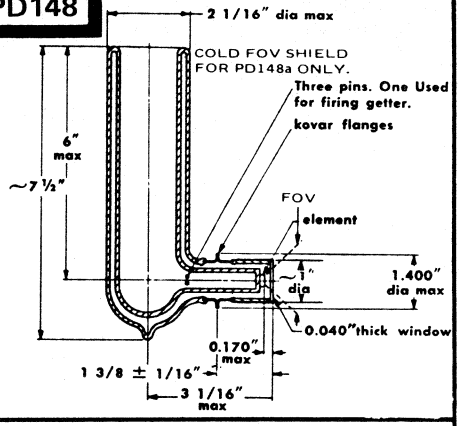
IN DRAWING NUMBER SEQUENCE

PD147

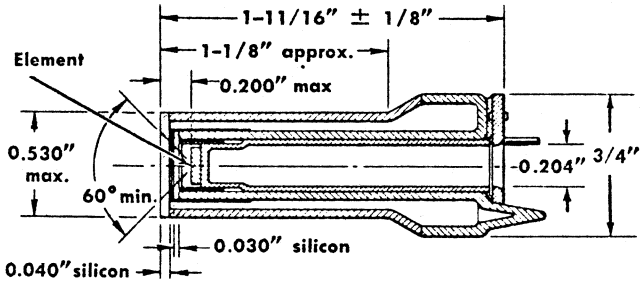


COLD FOV SHIELD FOR PD147a ONLY.

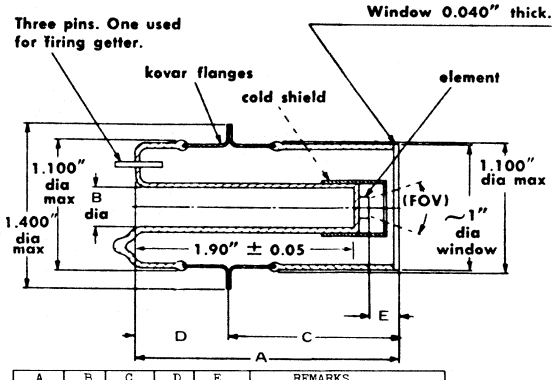
PD148



PD150

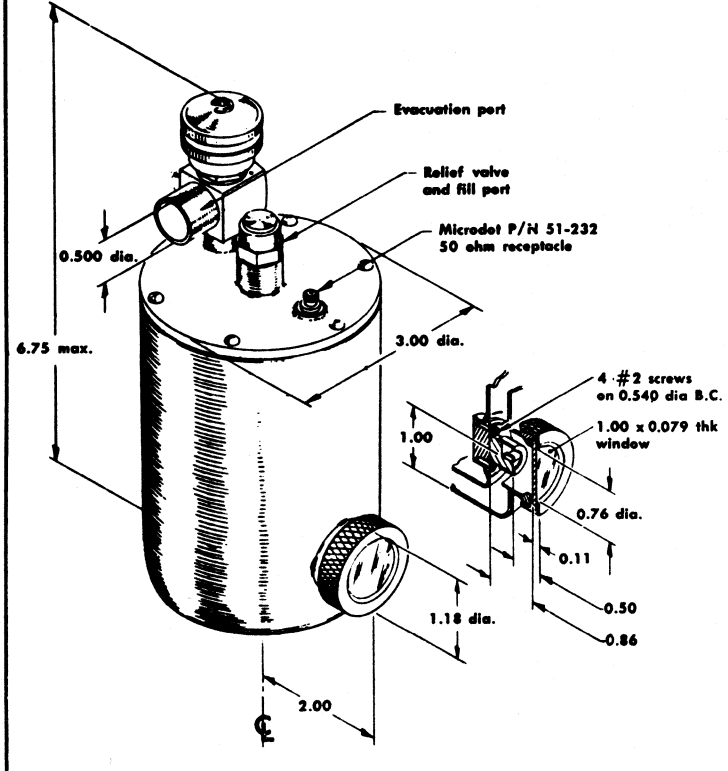


PD151

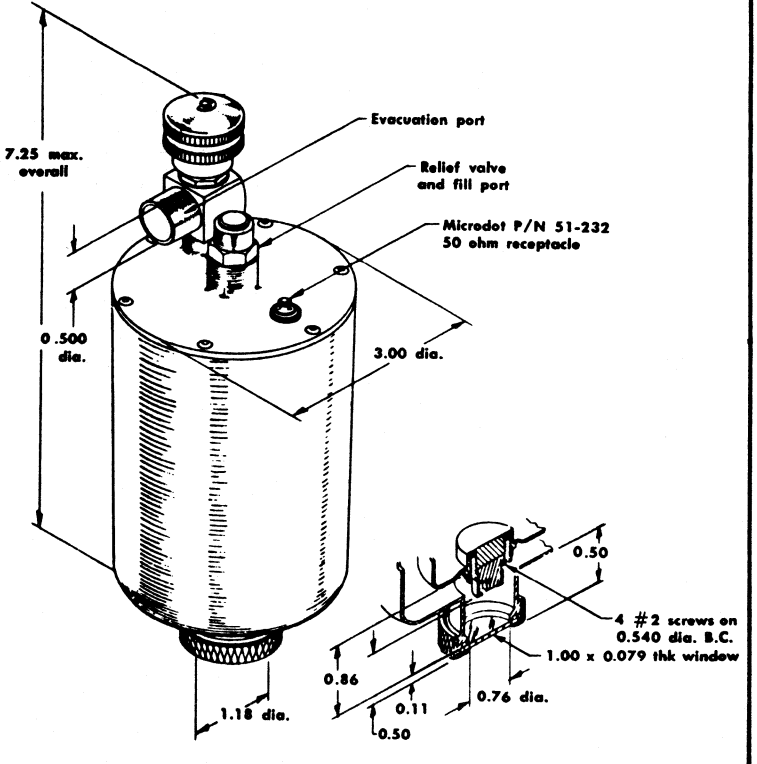


	A	B	C	D	E	REMARKS
PD151	2.062	.326	1.312	.687	.170	Without FOV Cold Shield
	2.187		1.437	.812	MAX	
PD151a	2.500	.326			VARIES	As Shown

PD152



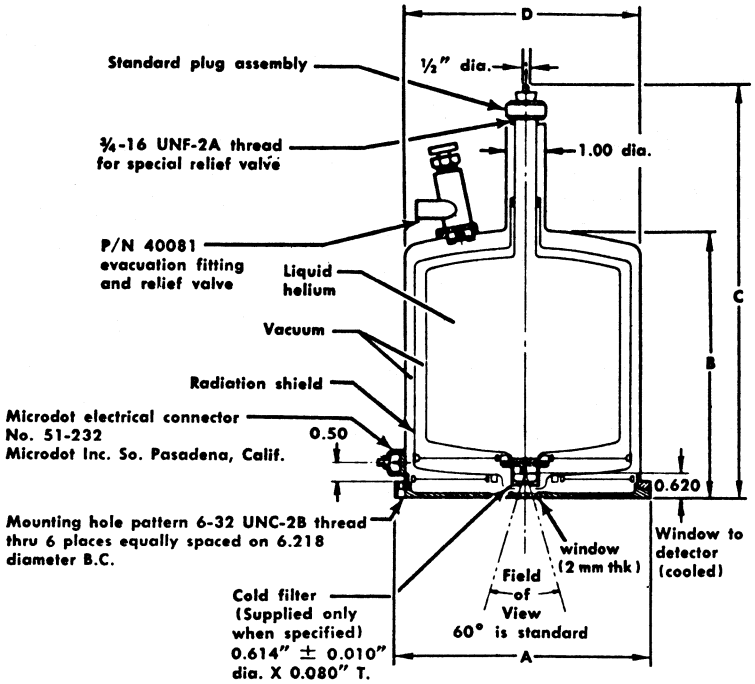
PD153



49. OUTLINE DRAWINGS

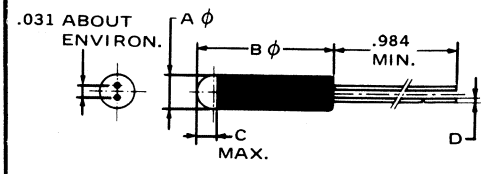
IN DRAWING NUMBER SEQUENCE

PD154



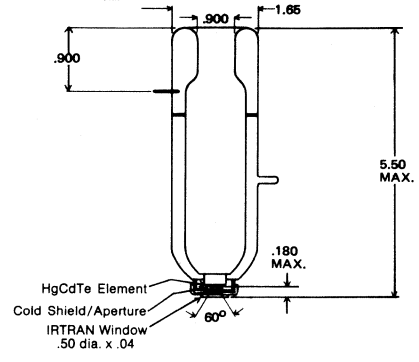
	A	B	C	D
PD154	6.50	5.42	9.20	6.00
PD154a	6.50	7.00	10.78	6.00

PD158

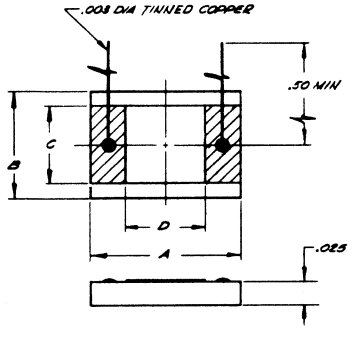


	A	B	C	D
PD158	.070 .086	.354 .511	.055	.007 .015
PD158a	.165 .188	.669 .748	.137	.016 .018

PD159

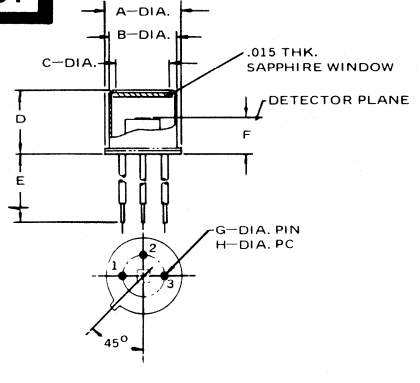


PD160



	A	B	C	D	THICKNESS
PD160	.098	.098	.039	.039	.029
PD160a	.177	.098	.078	.078	.029
PD160b	.149	.196	.118	.118	.029
PD160c	.196	.149	.118	.118	.029
PD160d	.098	.098	.039	.039	.039
PD160e	.117	.098	.078	.078	.039
PD160f	.196	.149	.118	.118	.039
PD160g	.110	.098	.039	.039	.025
PD160h	.177	.098	.078	.078	.025
PD160j	.149	.196	.118	.118	.025
PD160k	.256	.177	.157	.157	.025

PD161

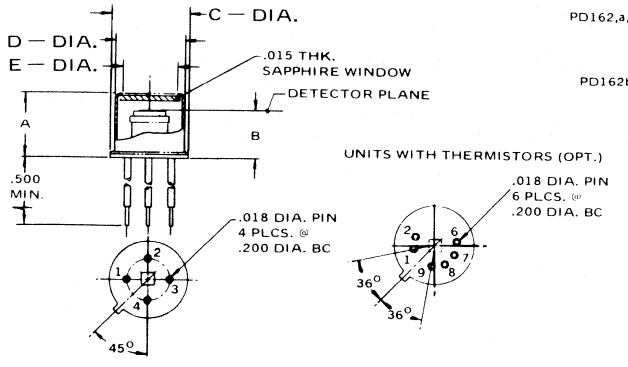


	A	B	C	D	E	F	G	H
PD161	.212	.185	.125	.205	1.500 MIN	.120	.018	.200
PD161a	.360	.325	.260	.240	.500 MIN	.125	.018	.200
PD161b	.360	.325	.240	.177	1.500 MIN	.070	.018	.200
PD161c	.212	.185	.125	.150	1.500 MIN	.060	.018	.100

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD162

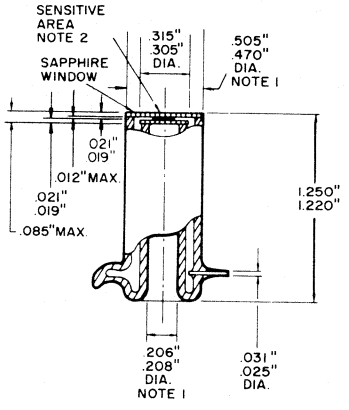


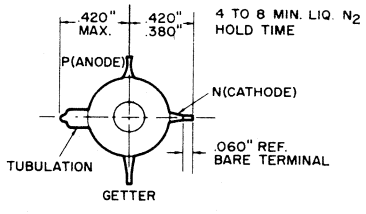
PIN FUNCTIONS

	PIN NO.	COLOR	FUNCTION
PD162,a,d,e	2 & 3	WH.	DETECTOR
	1	RED	COOLER (+)
	4	BLK.	COOLER (—)
PD162b, c	1 & 2	YEL.	THERMISTOR
	6 & 7	WH.	DETECTOR
	8	BLK.	COOLER (—)
	9	RED	COOLER (+)

	A	B	C	D	E
PD162,a	.265	.204	.360	.325	.260
PD162b, c	.380	.304	.360	.325	.260
PD162d	.365	.220	.360	.325	.260
PD162e	.390	.320	.360	.325	.260
PD162f	.270	.200	.360	.330	.265

PD163





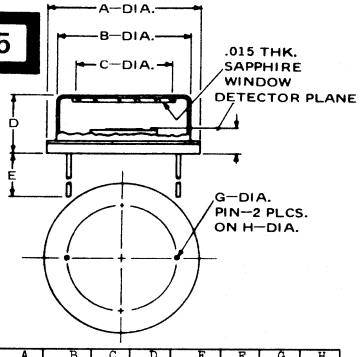
NOTE 1

Diameters to be concentric with .096''/.088'' dia. within .030'' T.I.R.

NOTE 2

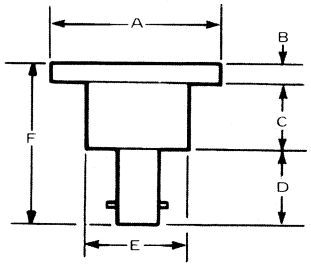
Cell Area: Circular/2.25 mm dia. (4.0 mm^2)

PD165



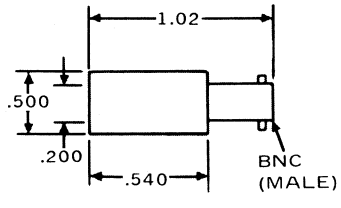
	A	B	C	D	E	F	G	H
PD165	.550	.490		.195	1.500		.020	
PD165a	.575	.497	.360	.200	.500 MIN	.090	.018	.420
PD165b	1.250	1.100	.810	.270	.500	.072	.040	.750
PD165c	.575	.497	.360	.220	1.500	.070	.018	.420
PD165d	.550	.486	.430	.230	1.500		.019	.295

PD166

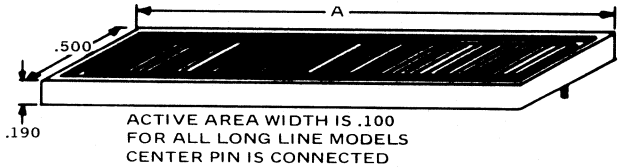


	A	B	C	D	E	F
PD166	.980	.175	.390	.470	.626	1.035
PD166a	.975	.175	.475	.450	.625	1.100
PD166b	1.675	.250	.400	.500	.620	1.150
PD166c	1.230		.325		.625	1.325
PD166d	1.230		.400			1.180

PD167



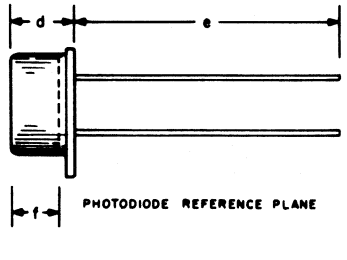
PD168

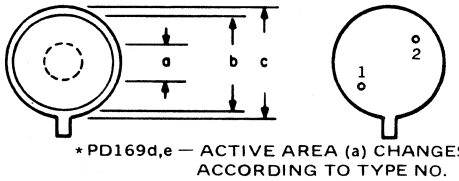


ACTIVE AREA WIDTH IS .100
FOR ALL LONG LINE MODELS
CENTER PIN IS CONNECTED
TO PHOTODIODE ANODE (—BIAS)

	LENGTH A
PD168	5.025
PD168a	10.025

PD169





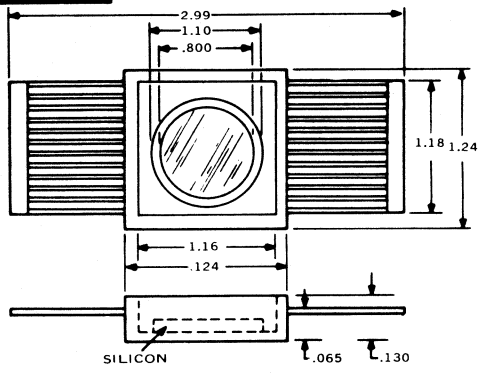
*PD169d,e — ACTIVE AREA (a) CHANGES ACCORDING TO TYPE NO.

	A	B	C	D	E	F	PIN CIRCLE RADIUS	WINDOW THICKNESS	WINDOW DIA	LEAD DIA
PD169	.100	.331	.358	.165	1.50	.091	.098	.052	.240	.018
PD169a	.215	.421	.551	.200	1.50	.136	.149	.052	.421	.018
PD169b	.040	.180	.240	.200	1.50	.150	.052	.035	.138	.018
PD169c	.444	.819	1.21	.290	.500	.212	.374	.063	.826	.040
PD169d	*	.325	.360	.177	.500 MIN		.100	.015	.240	.018
PD169e	*	.185	.212	.150	.500 MIN		.050	.015	.125	.018
PD169f		.325	.360	.177	1.500		.100	.015	.240	.018
PD169g		.185	.212	.150	1.500		.050	.015	.125	.018
PD169h	.275	.330	.362	.157	.787	.090	.110	.039	.303	.017

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

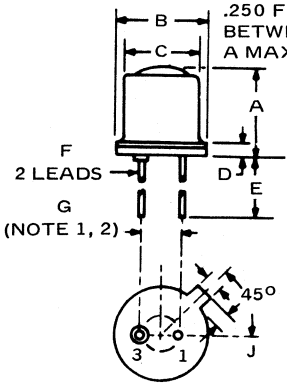
PD170



PD171

NOTE 1: (PD171)

LEAD DIAMETER IS CONTROLLED IN THE ZONE BETWEEN .050 AND .250 FROM THE SEATING PLANE. BETWEEN .250 AND END OF LEAD A MAX. OF .021 IS HELD.

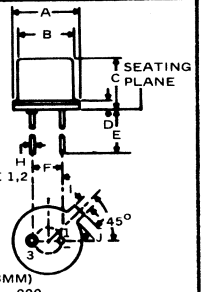


NOTE 2: (PD171a)

LEADS HAVING MAX. DIAMETER .021" MEASURED IN GAGING PLANE OF THE DEVICE SHALL BE WITHIN .007" OF THEIR TRUE POSITION RELATIVE TO A MAX. WIDTH TAB.

	A	B	C	D	E	F	G	H	J
PD171	.255	.209	.178	.040	.500	.016	.100	.031	.036
	MAX	.230	.195	MAX	MIN	.019	NOM	.044	.046
PD171a	.255	.209	.180	.030	1.00	.016	.100	.031	.036
	MAX	.230	.187	MAX	MIN	.021	NOM	.044	.046
PD171b	.155	.209	.180	.030	1.00	.016	.100	.031	.036
	MAX	.230	.187	MAX	MIN	.021	NOM	.044	.046

PD172

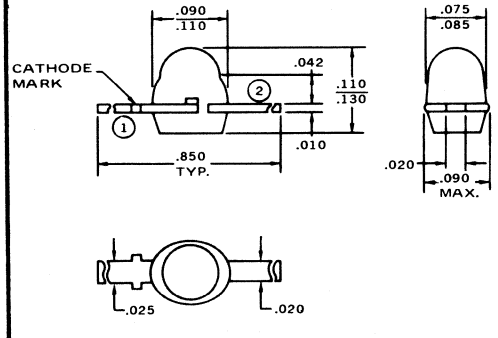


NOTE 1: LEAD DIAMETER IS CONTROLLED IN THE ZONE BETWEEN .050 AND .250 FROM THE SEATING PLANE. BETWEEN .250 AND END OF LEAD A MAX. OF .021 IS HELD.

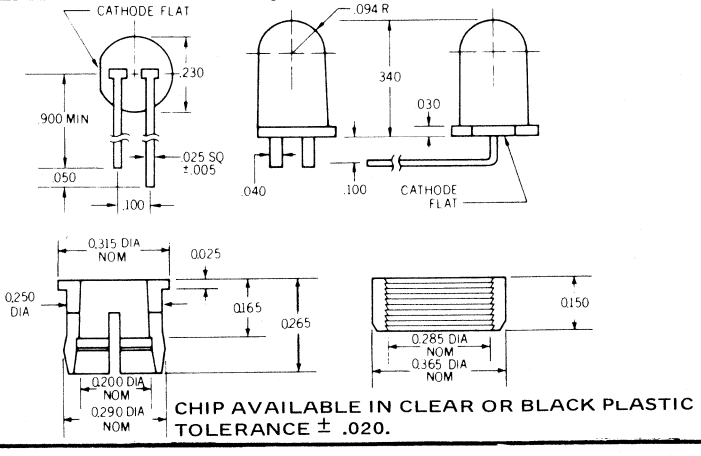
NOTE 2: LEADS HAVING MAX. DIA. .021" (.533MM) MEASURED IN GAUGING PLANE .054" + .001" − .000 (137 + .025 − .000MM) BELOW THE REFERENCE PLANE OF THE DEVICE SHALL BE WITHIN .007" (.778MM) THEIR TRUE POSITION RELATIVE TO A MAX. WIDTH TAB.

	A	B	C	D	E	F	H	I	J
PD172	.209	.178	.155	.040	.500	.100	.016	.031	.036
	.230	.195	MAX	MAX	MIN	NOM	.019	.044	.046
PD172a	.209	.180	.155	.030	1.00	.100	.016	.031	.036
	.230	.187	MAX	MAX	MIN	NOM	.021	.044	.046

PD174



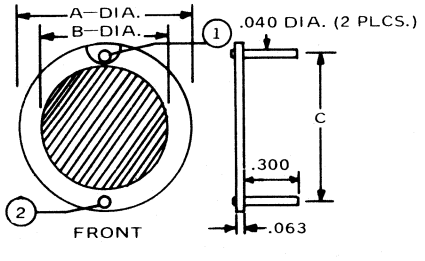
PD175



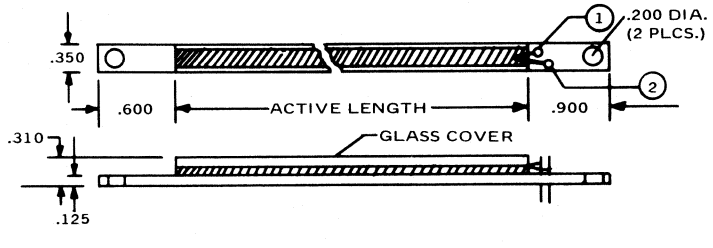
CHIP AVAILABLE IN CLEAR OR BLACK PLASTIC TOLERANCE ± .020.

PD177

	A	B	C
PD177	.870	.100	.750
PD177a	1.600	1.100	1.430



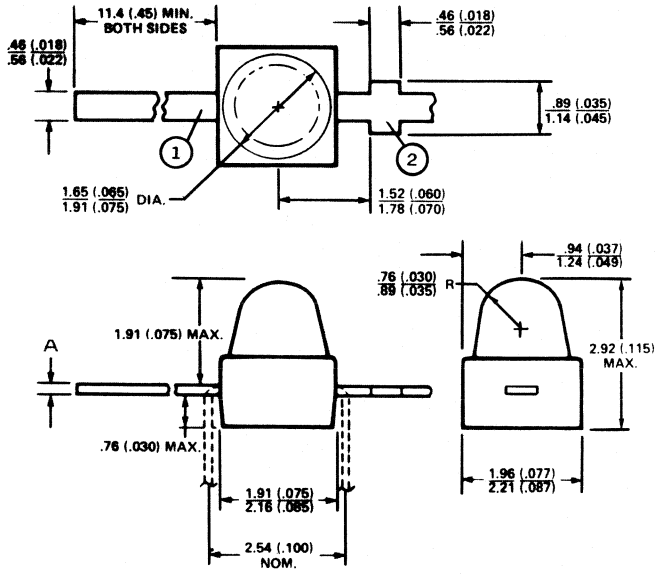
PD178



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

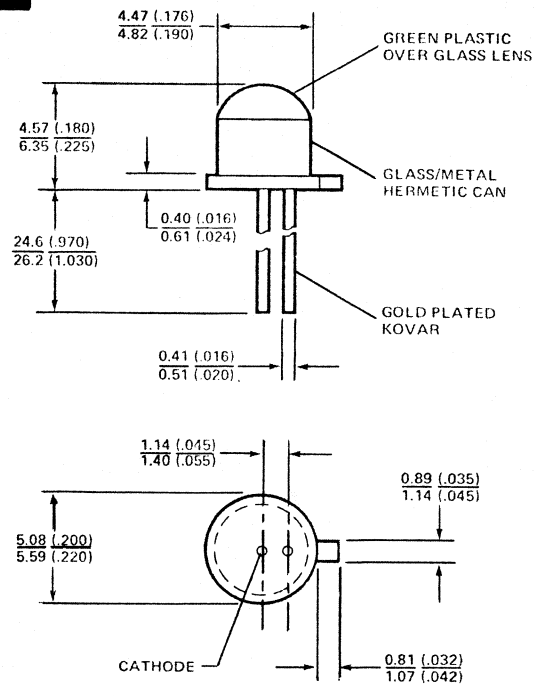
PD180



MM (INCH)

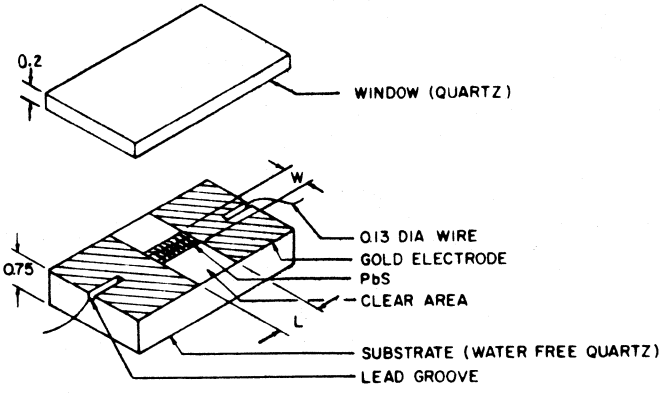
	A
PD180	.11(.0045) .22(.0085)
PD180a	.18(.007) .23(.009)

PD181



DIMENSIONS IN MILLIMETERS AND (INCHES).

PD182

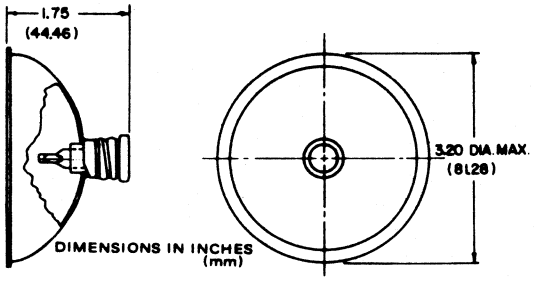


NOTE I: ALL DIMENSIONS IN MILLIMETERS (mm), Imm = 0.03937 INCHES

SIZE NUMBER	SENSITIVE AREA L x W (mm)	SUBSTRATE SIZE (mm)
AVAILABLE SIZES FOR TYPES 1, 2, AND 3		
01	.25 x .25	6.3 x 6.3
02	.5 x .5	6.3 x 6.3
03	1.0 x 1.0	6.3 x 6.3
04	1.5 x 1.5	6.3 x 6.3
05	2.0 x 2.0	6.3 x 6.3
06	3.0 x 3.0	6.3 x 6.3
07	4.0 x 4.0	6.3 x 6.3
08	5.0 x 5.0	9.5 x 9.5
09	6.0 x 6.0	9.5 x 9.5
10	8.0 x 8.0	13.0 x 13.0
11	10.0 x 10.0	13.0 x 13.0
12	.25 x 1.0	6.3 x 6.3
13	1.0 x 2.0	6.3 x 6.3
14	1.0 x 3.0	6.3 x 6.3
15	1.0 x 4.0	6.3 x 6.3
21	.25 x 2.5	6.3 x 6.3
AVAILABLE SIZES FOR TYPES 4 AND 5		
16*	1.5 x 1.5	6.3 x 6.3
17	4.0 x 4.0	6.3 x 6.3
18**	.25 x 1.0	6.3 x 6.3

* TYPE 4 ONLY ** TYPE 5 ONLY

PD183



	Sensitive Area in. (mm)	Overall Size in. (mm)
PD183	.025 x .015 (.64 x .38)	.250 x .125 (6.4 x 3.2)

PD183a Same detector mounted on a bayonet base.

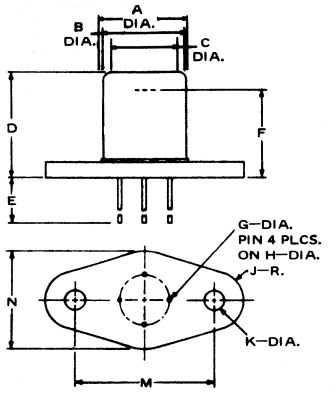
PD183b Same base-mounted detector in 3" diameter collector providing optical gain of approximately 500.

PD183c Same detector-collector assembly with 3" diameter filter.

49. OUTLINE DRAWINGS

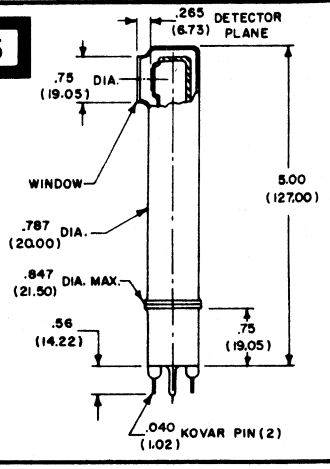
IN DRAWING NUMBER SEQUENCE

PD184

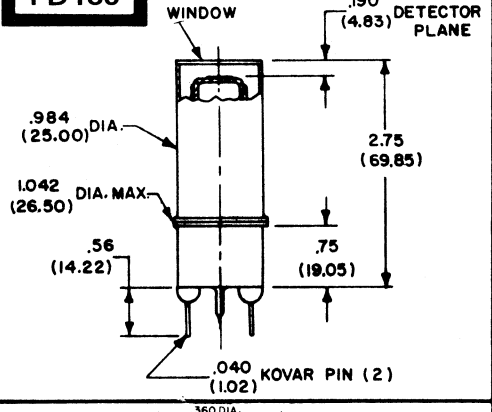


	A	B	C	D	E	F	G	H	J	K	M	N
PD184	.360	.325	.260	.418	.500 MIN	.318	.018	.200	.114	.125	.562	.390
PD184a	.360	.330	.265	.290	.500 MIN	.218	.018	.200	.114	.125	.562	.390
PD184b		.330		.290	.500	.230	.018	.200	.114	.125	.562	.390

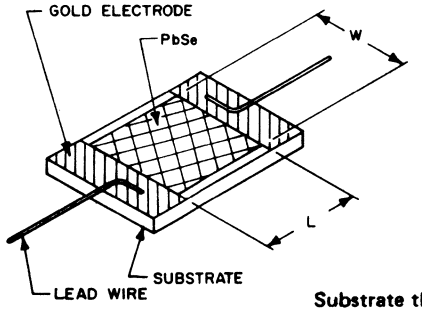
PD185



PD186



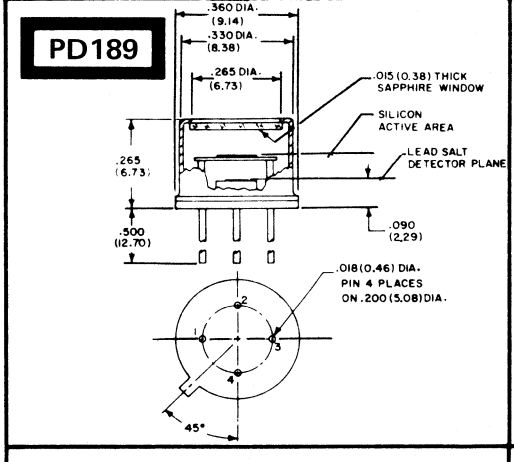
PD187



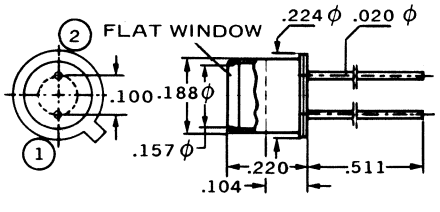
ELEMENT L (mm) x W (mm)	SUBSTRATE L (mm) x W (mm)
1 x 1	2 x 3
2 x 2	2.5 x 3.5
3 x 3	4 x 5
4 x 4	5 x 6

Substrate thickness = 0.5mm.

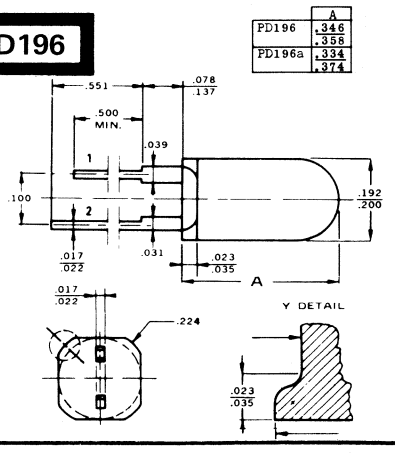
PD189



PD192

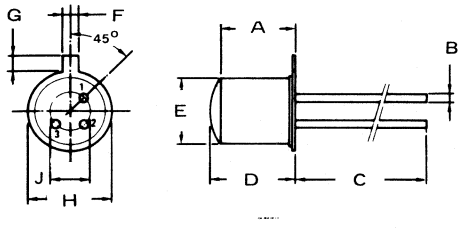


PD196



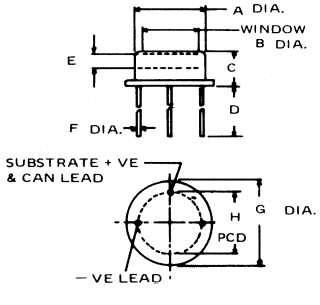
	A
PD196	.346 .358
PD196a	.334 .374

PD197



	A	B	C	D	E	F	G	H	J
PD197	.908 MAX	.021 MAX	.500 MIN	.236 MAX	.170 MAX	.045 MAX	.046 MAX	.229	.100
PD197a		.018 MAX	.500 MIN	.271 MAX	.188 MAX	.045 MAX	.046 MAX	.228	.099

PD199



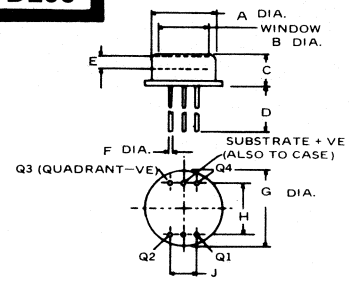
	A	B	C	D	E	F	G	H
PD199	.443 .523	.374	.188 .250	.500 MIN	.098 NOM	.017 .020	.550 .649	.400 .440
PD199a	.531 .570	.437	.157 .177	.500 MIN	.098 NOM	.016 .018	.590 .629	.393 .433
PD199b	.543 .555	.437	.157 .177	.499 MIN	.098 NOM	.016 .018	.598 .614	.390 .423
PD199c	.543 .555	.437 DIA	.157 .177	.500 MIN	.059 NOM	.016 .018	.598 .614	.390 .423 PCD

(SUFFIX)	DIODE OPTION
-R	Electrically Isolated from the Can
-2	Centrally Mounted to A Tolerance ±0.25mm on the Header
-R2	Electricaly Isolated and Centrally Mounted

49. OUTLINE DRAWINGS

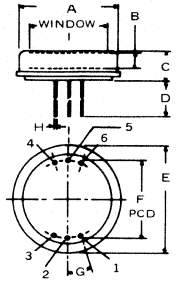
IN DRAWING NUMBER SEQUENCE

PD200



	A	B	C	D	E	F	G	H	J
PD200	.443 .523	.374	.188 .250	.500 MIN	.098 NOM	.017 .020	.550 .649	.393	.196
PD200a	.531 .570	.437	.157 .177	.500 MIN	.098 NOM	.016 .018	.590 .629	.393	.196

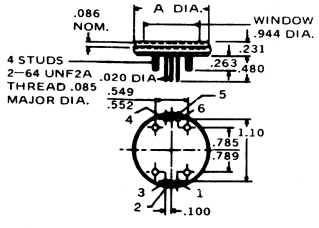
PD201



	A	B	C	D	E	F	G	H	I
PD201,a	.984 DIA	.149 NOM	.236	.500 MIN	1.02 DIA	.747	20° TYP	.020 DIA	.747 DIA
PD201b	.968 DIA	.090 NOM	.188	.502 MIN	1.02 DIA	.748	20° TYP	.020 DIA	.747 DIA

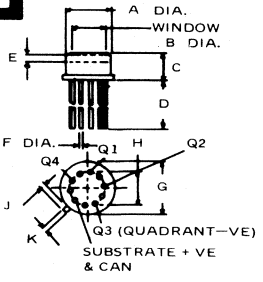
PIN	1	2	3	4	5	6
PD201	Q1	Guard Ring	Q2	Q3 (Quadrant -VE)	Substrate +VE	Q4 (also to case)
PD201a				-VE	Substrate +VE (also to case)	Guard Ring
PD201b	Q1			-VE LEAD	Substrate +VE (also can lead)	

PD202



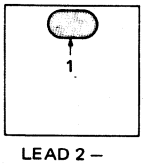
PIN	1	2	3	4	5	6
PD202	Q1	Guard Ring	Q2	Q3 (Quadrant-VE)	Substrate+VE	Q4 (also to case)
PD202a				-VE	Substrate+VE (also to case)	Guard Ring
PD202	A 1.250					
PD202a	1.248 1.251					

PD203



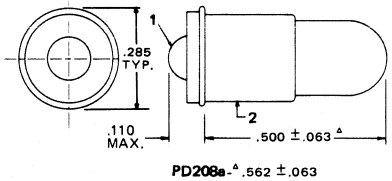
	A	B	C	D	E	F	G	H	J	K
PD203	.289 .334	.240	.165 .185	.500 MIN	.047 NOM	.017 .020	.334 .370	.278	.029 .044	.028 .035
PD203a	.314 .324	.232	.165 .185	.500 MIN	.078 NOM	.016 .018	.334 .370	.228	.029 .044	.028 .035

PD206



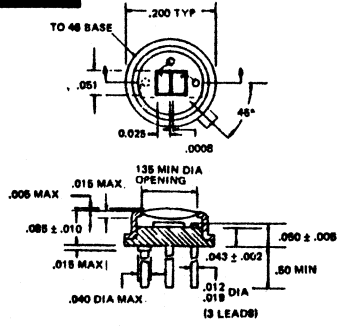
LEAD 2 –
ON BOTTOM
OF CHIP.

PD208

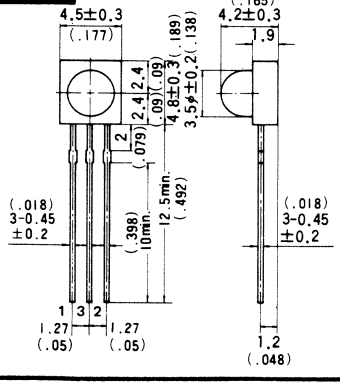


PD208a-Δ.562 ±.063

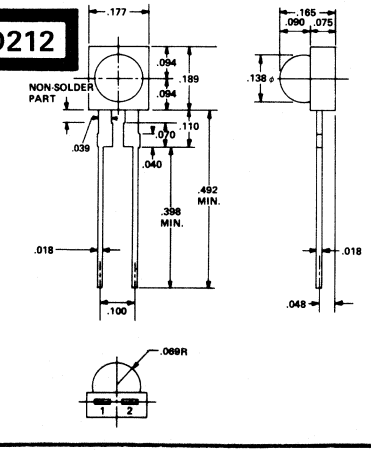
PD209



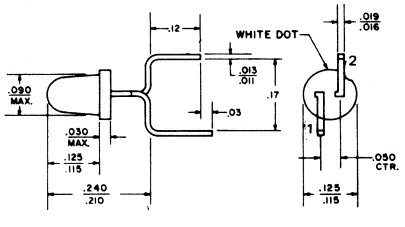
PD211



PD212



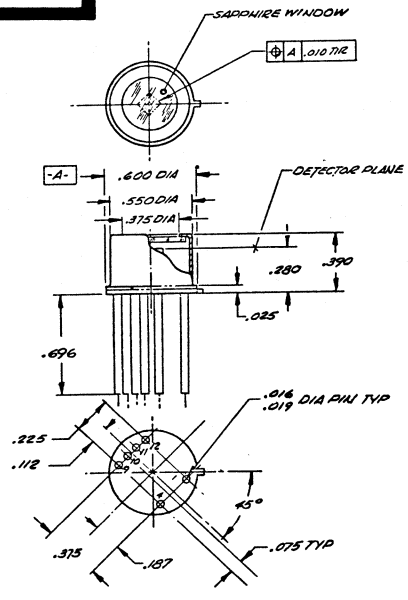
PD213



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD214

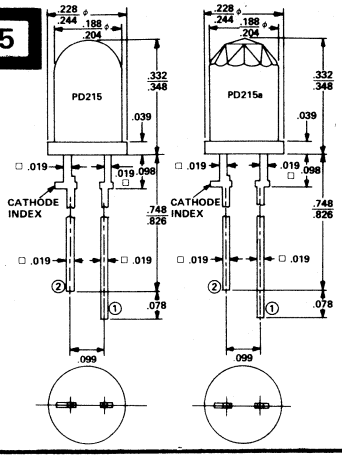


PIN CONNECTIONS

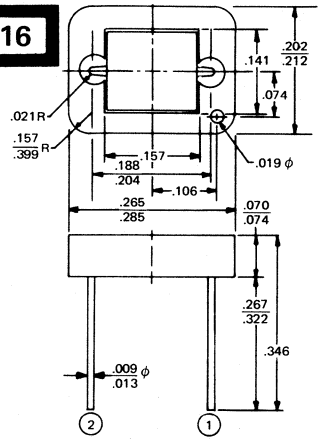
PIN NO.	COLOR	FUNCTION
1.	BLACK	COOLER (NEG.)
4.	RED	COOLER (POS.)
9	WHITE	DETECTOR
10	YELLOW	THERMISTOR
11	YELLOW	THERMISTOR
12	WHITE	DETECTOR

NOTE: AVAILABLE WITHOUT THERMISTORS.

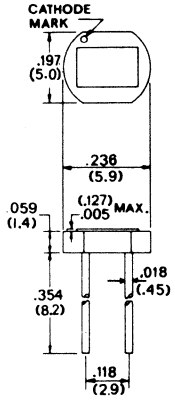
PD215



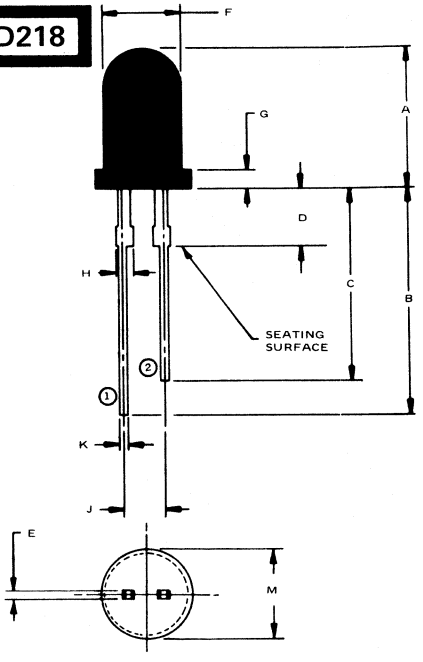
PD216



PD217

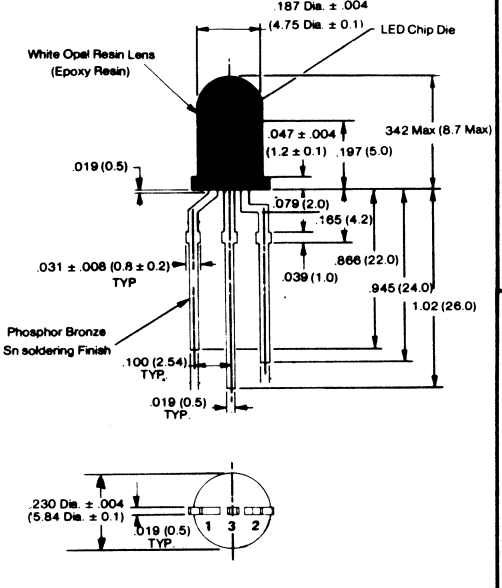


PD218

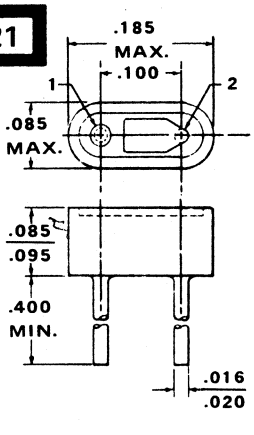


	A	B	C	D	E	F	G	H	J	K	M
PD218	.350 MAX	.551	.472	.098	.015 .025	.183 .191	.043 .051	.031 .039	.100	.015 .025	.226 .234
PD218a	.343 MAX	.591	.512	.150	.012 .028	.183 .191	.043 .051	.031 .039	.100	.015 .025	.226 .234
PD218b	.342 MAX	.590	.511	.149	.019	.187	.047		.100	.019	.229
PD218c	.346 MAX	.591	.512	.150	.012 .028	.191 .203	.022 .038		.100	.012 .028	.218 .234

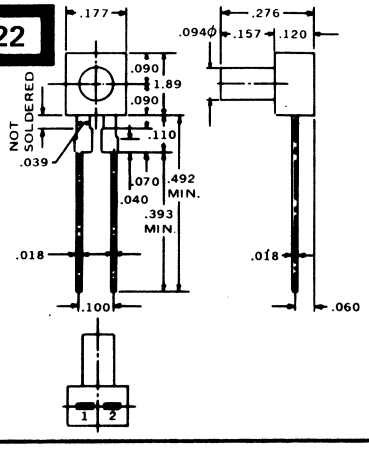
PD220



PD221



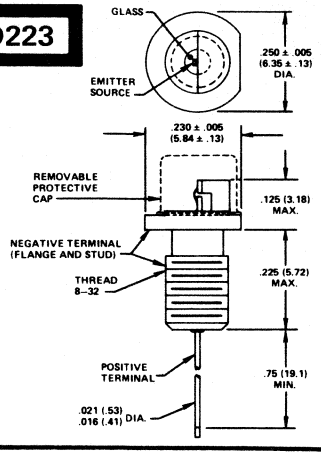
PD222



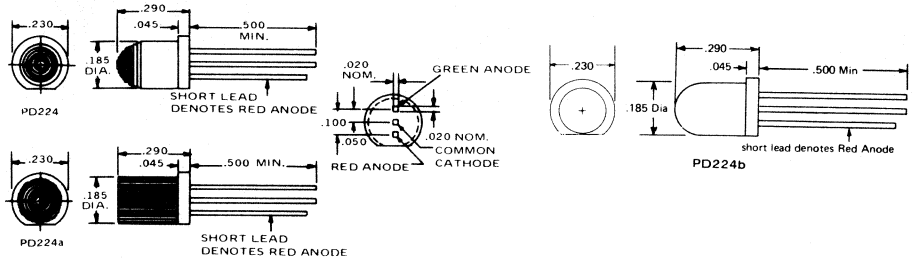
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

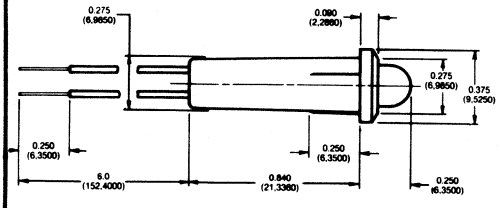
PD223



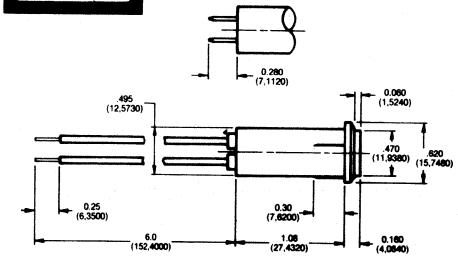
PD224



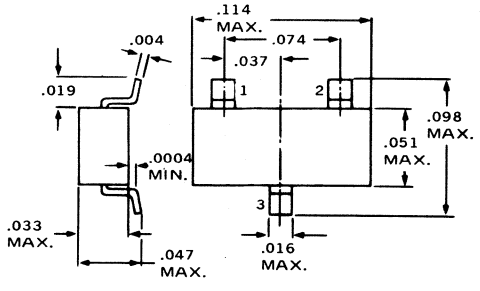
PD226



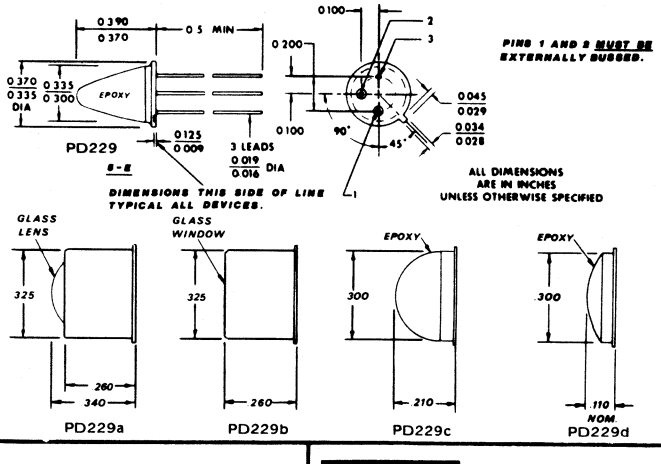
PD227



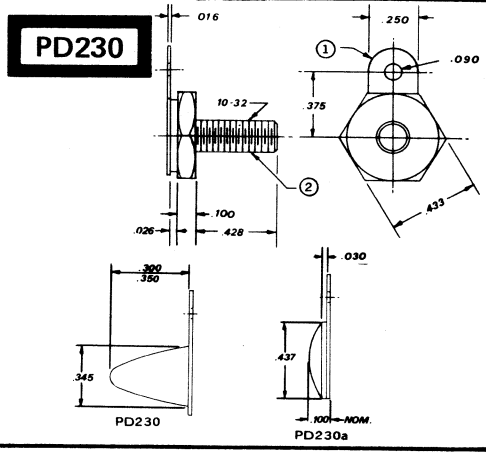
PD228



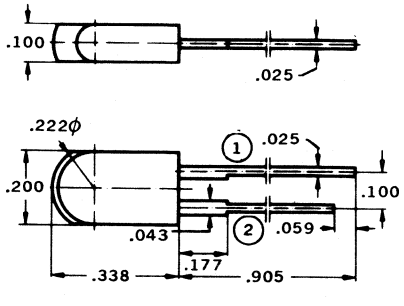
PD229



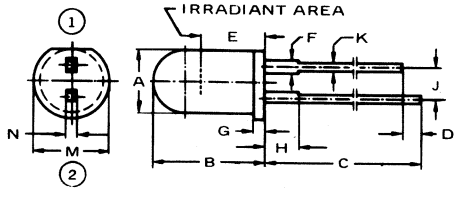
PD230



PD231



PD232

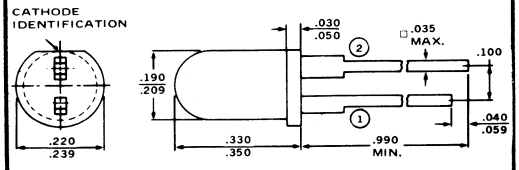


	A	B	C	D	E	F	G	H	J	K	M	N
PD232	.200	.338	.905	.059	.206	.043	.039	.096	.100	.025	.228	.025
PD232a	.200	.338	.905	.059	.206	.043	.039	.086	.100	.025	.228	.025
PD232b	.200	.338	.905	.059	.177	.043	.039	.125	.100	.025	.240	.025
PD232c	.185 .200	.334 .374	.656 .715	.078 MAX		.039		.078 .137	.100	.016 .022	.228	
PD232d	.120	.215	.500 MIN				.025		.050	.020	.155	.020
PD232e	.200	.340	1.00		.215		.040			.020	.240	.020

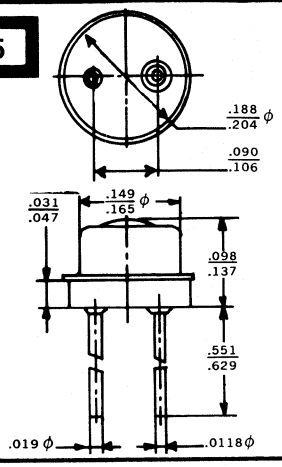
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

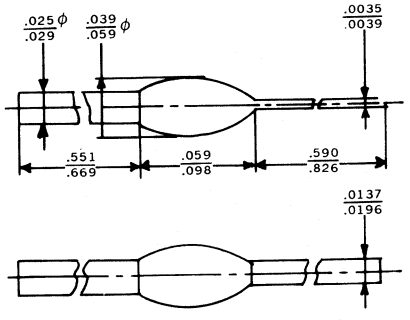
PD233



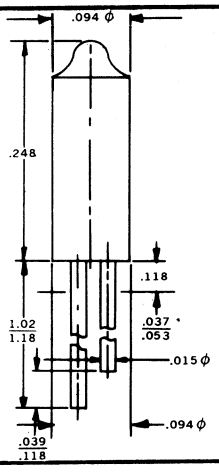
PD235



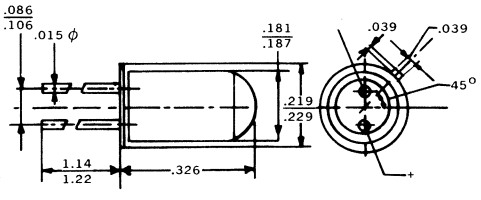
PD236



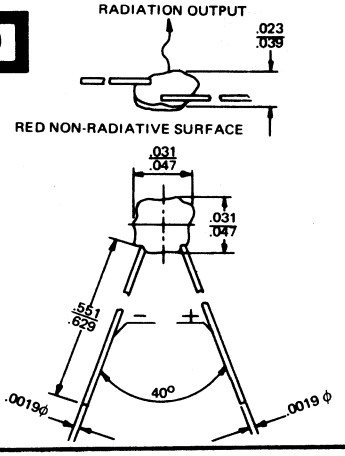
PD237



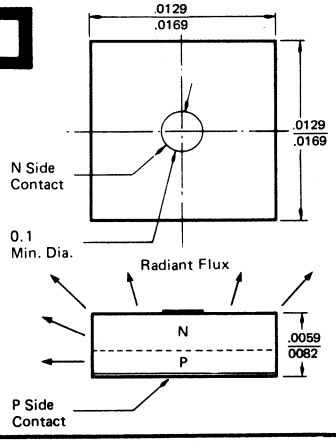
PD238



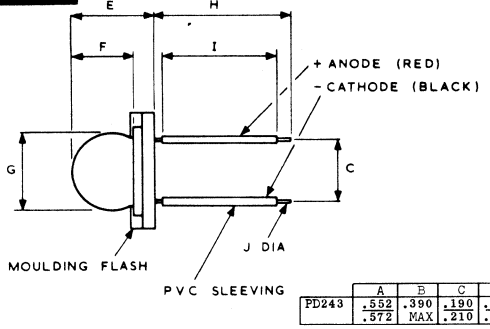
PD239



PD241

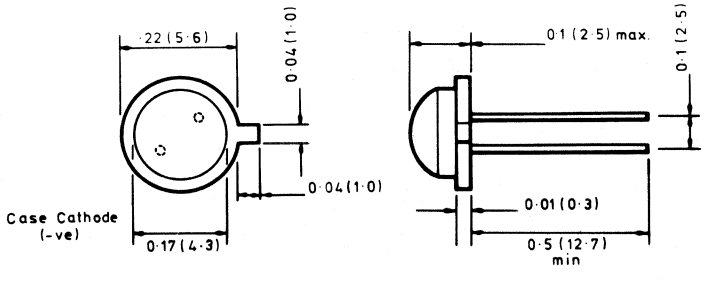


PD243

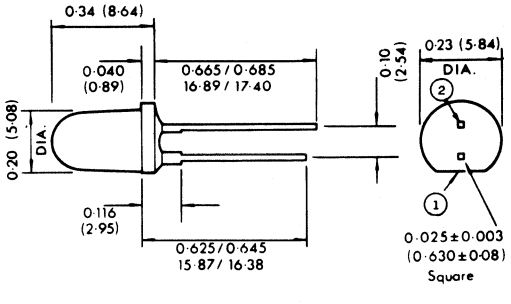


	A	B	C	D	E	F	G	H	J	K
PD243	.552 .572	.390 MAX	.190 .210	.120 .130	.260 .310	.185 .220	.215 .255	1.50 TYP	.020 TYP	1.00 TYP

PD244



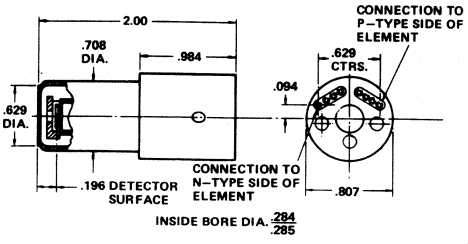
PD245



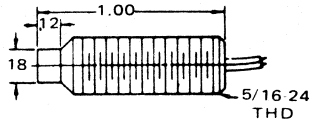
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

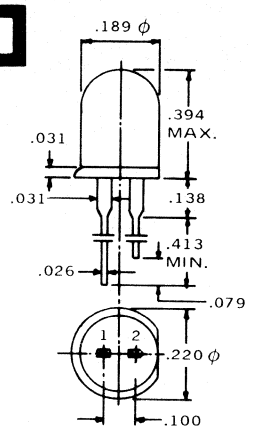
PD249



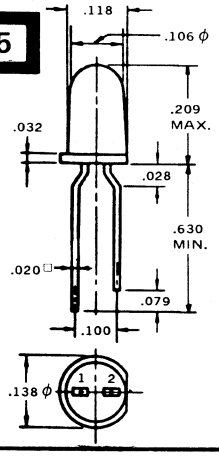
PD253



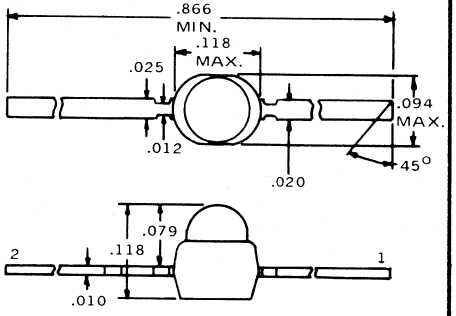
PD254



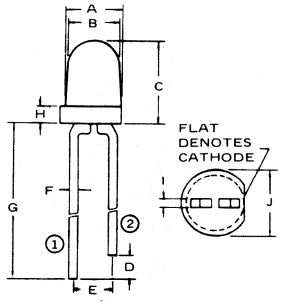
PD255



PD256

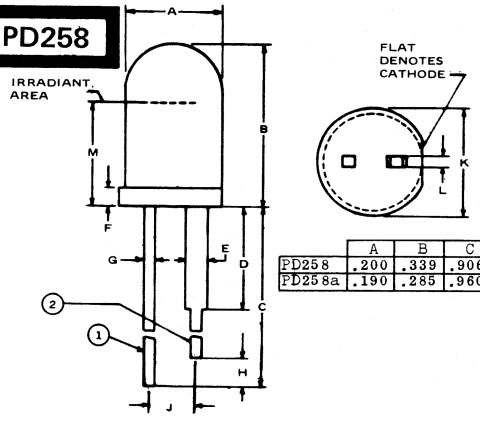


PD257



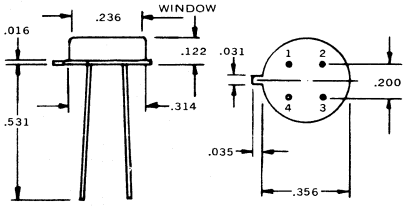
	A	B	C	D	E	F	G	H	I	J
PD257	.130	.118	.197 .210	.059	.090	.021 .022	.750 MIN	.039 .060	.021	.187 .160
PD257a	.135	.115	.190 .210		.090	.018 .022	.500 MIN	.020 .060	.020	.140 .160
PD257b			.220 .240		.090	.020	.500 MIN	.020 .040	.020	.177 .197
PD257c			.190 .210		.090	.020	.500 MIN	.020 .040	.020	.140 .160

PD258

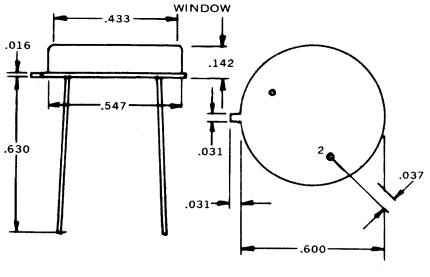


	A	B	C	D	E	F	G	H	J	K	L	M
PD258	.200	.339	.906	.217	.039	.039	.025	.059	.100	.228	.026	.177
PD258a	.190	.285	.960	.271	.039	.050	.025	.059	.100	.230	.025	.122

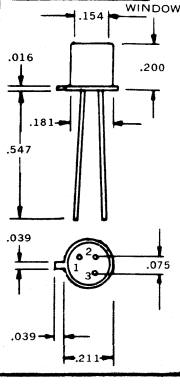
PD259



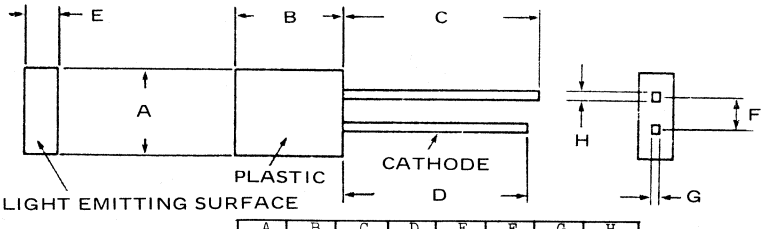
PD260



PD261



PD262

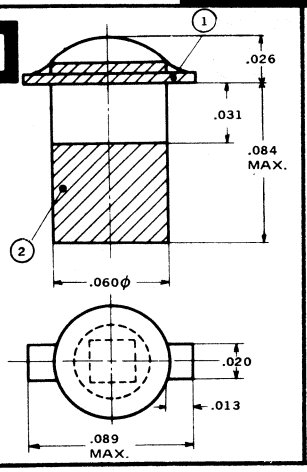


	A	B	C	D	E	F	G	H
PD262	.275 .295	.290 .315	1.05 MIN	1.00 MIN	.090 .100	.100 NOM	.013 .017	.014 .025
PD262a	.196	.275	1.02 MIN	.972 MIN	.110	.098 NOM	.019	.019
PD262b	.275 .295	.290 .315	1.05 MIN	1.00 MIN	.090 .100	.100 NOM	.014 .025	.014 .025

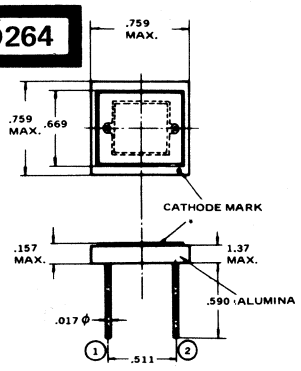
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD263

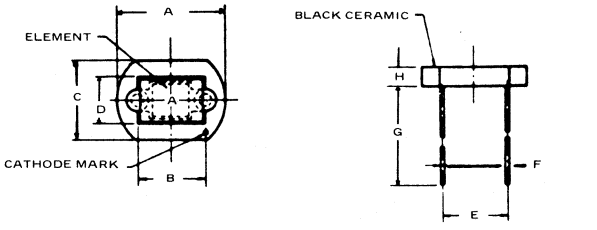


PD264



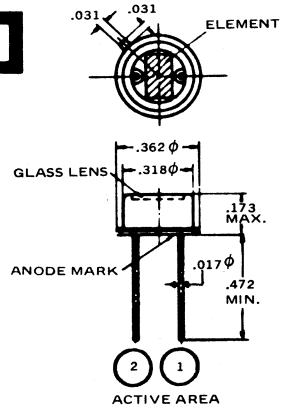
PD264 — * QUARTZ FILTER
PD264a — * TRANSPARENT GLASS
PD264b — * VISIBLE LIGHT PASS FILTER

PD265



	A	B	C	D	E	F	G	H	ACTIVE AREA
PD265	.318 MAX	.192	.240	.137	.196	.017	.354	.059	.084x.088 in.
PD265a	.318 MAX	.192	.240	.137	.196	.017	.354	.059	.044x.076 in.
PD265b	.236	.118	.197	.110	.118	.019	.157	.063	

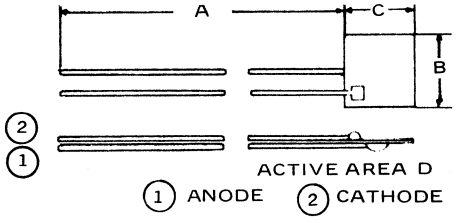
PD266



ACTIVE AREA
PD266: .118x.196 IN.
PD266a: .314x.236 IN.

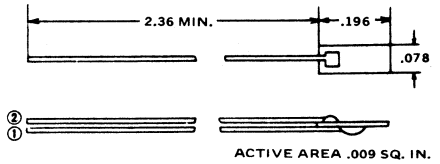
PD268

	A	B	C	D Active Area
PD268	2.36 MIN	.118	.196	.016 sq in
PD268a	2.36 MIN	.196	.196	.031 sq in



(1) ANODE (2) CATHODE

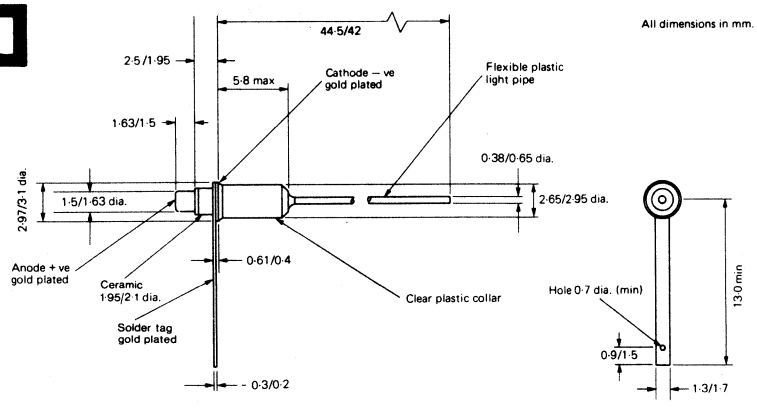
PD269



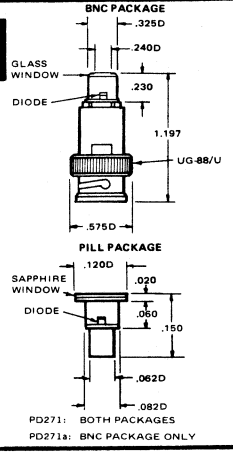
ACTIVE AREA .009 SQ. IN.

PD270

All dimensions in mm.

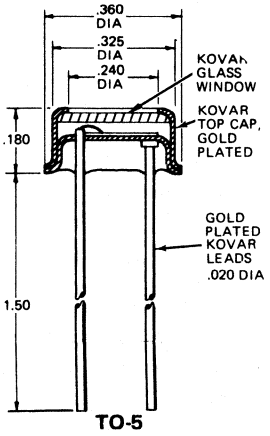


PD271

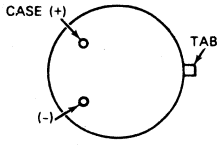


PD271: BOTH PACKAGES
PD271a: BNC PACKAGE ONLY

PD272

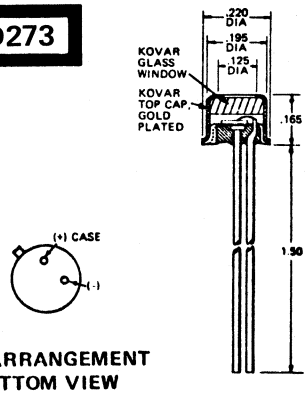


TO-5



BIAS ARRANGEMENT
BOTTOM VIEW

PD273

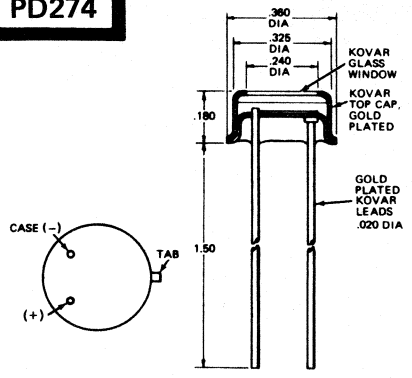


BIAS ARRANGEMENT
BOTTOM VIEW

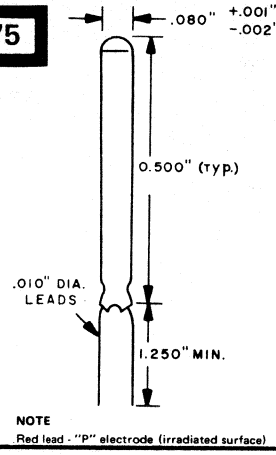
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD274

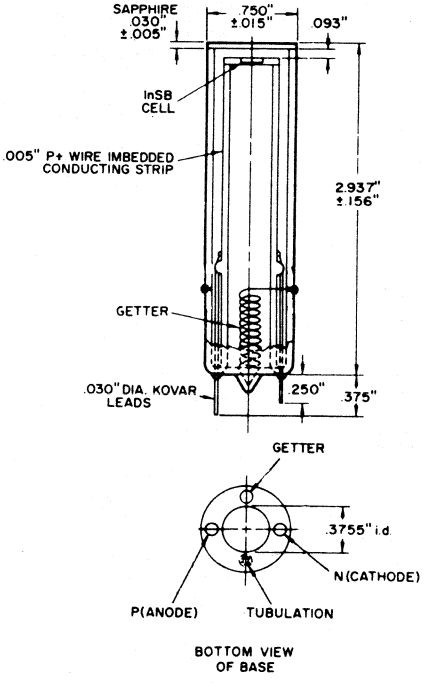


PD275



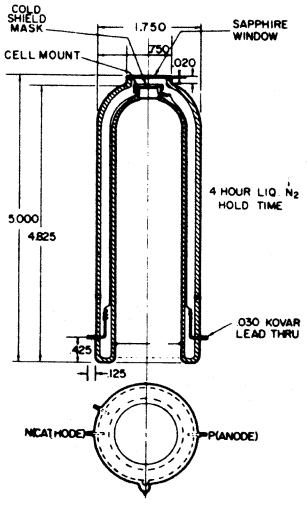
NOTE
Red lead - "P" electrode (irradiated surface)

PD276



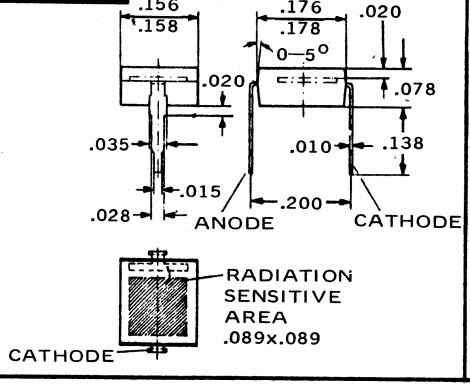
NOTES
Cell Area; Circular/1.25 mm dia.

PD277

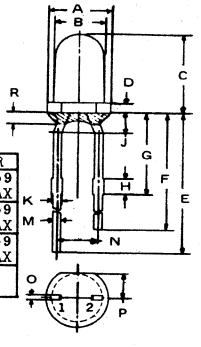


NOTES
Cell Area: Circular 0.6 mm dia.

PD278

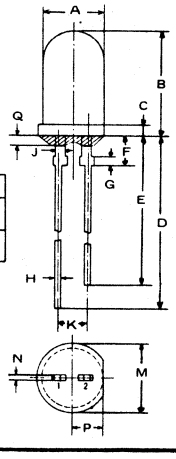


PD279



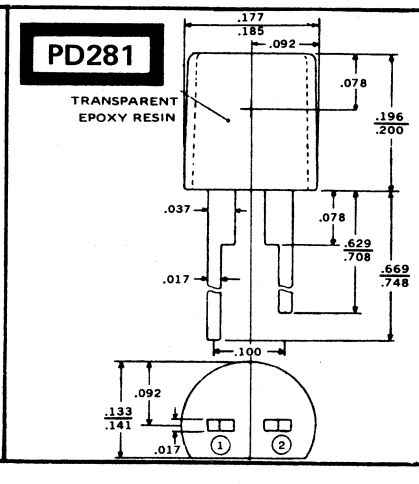
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
PD279	.141 .157	.110 .125	.188 .204	.023	.610 MIN	.570 MIN	.200 .240	.039	.066 MAX	.031 MAX	.019	.094	.066	.017	.059 MAX
PD279a	.141 .157	.110 .125	.188 .209	.023	1.03 MIN	.992 MIN	.200 .240	.039		.045 MAX	.019	.100	.066	.019	.059 MAX
PD279b	.181 .197	.150 .165	.229 .244	.039	1.03 MIN	.987 MIN	.189 .229	.039		.043 MAX	.019	.100		.019	.059 MAX
PD279c	.142 .157	.114 .130	.181 .196	.051	1.05 MIN	.972 MIN			.067 .098	.024	.016	.100			

PD280



	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
PD280	.190 .202	.330 .346	.029	.531 MIN	.492 MIN	.129 .169	.039	.019	.031	.100	.218 .234	.019	.098	.059 MAX
PD280a	.190 .202	.330 .346	.029	.964 MIN	.925 MIN	.129 .169	.039	.019	.031	.100	.218 .234	.019	.098	.059 MAX

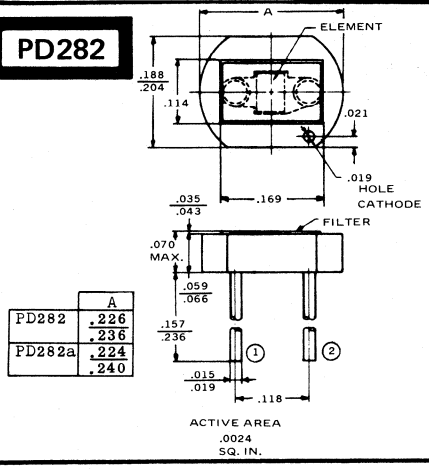
PD281



49. OUTLINE DRAWINGS

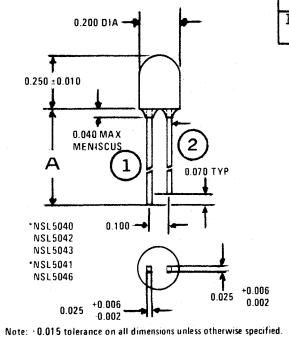
IN DRAWING NUMBER SEQUENCE

PD282



	A
PD282	.226 .236
PD282a	.224 .240

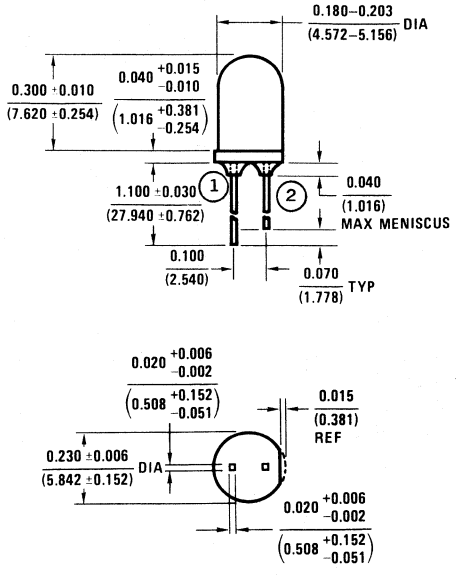
PD283



	A
PD283	.915 .975
PD283a	.945 1.005

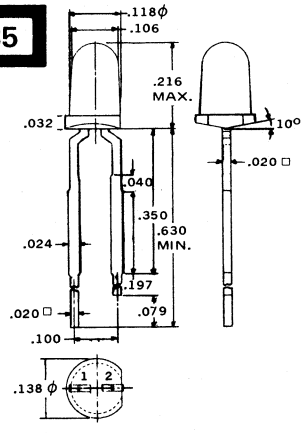
Note: ±0.015 tolerance on all dimensions unless otherwise specified.

PD284

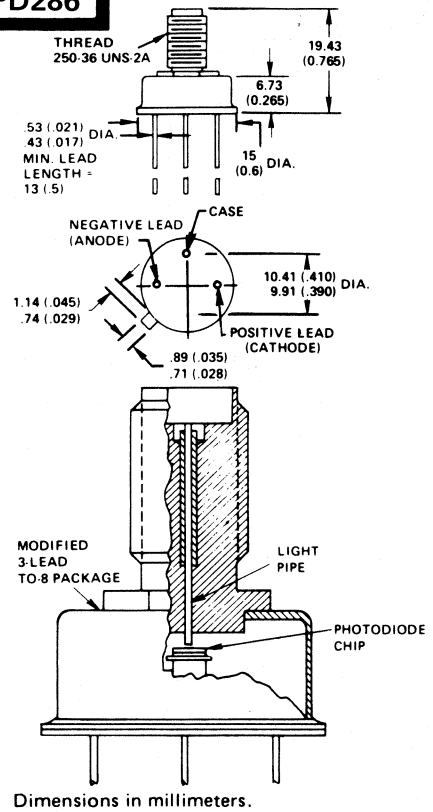


Note. ±0.015/(0.381) tolerance on all dimensions unless otherwise specified.

PD285

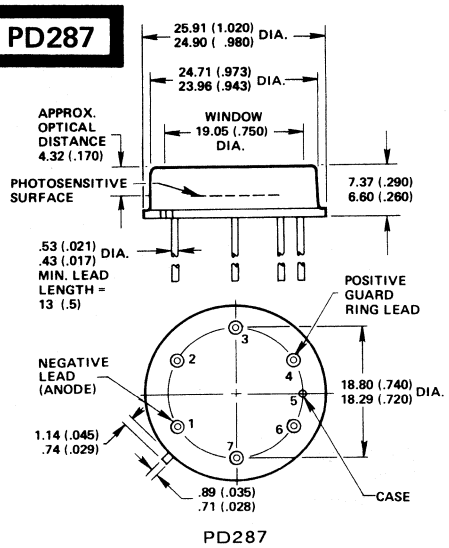


PD286

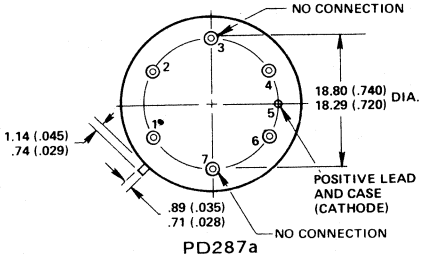


Dimensions in millimeters.
Dimensions in parentheses are in inches.

PD287

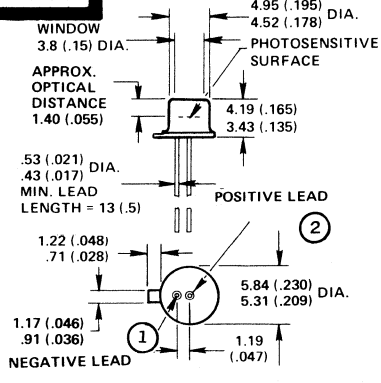


PD287

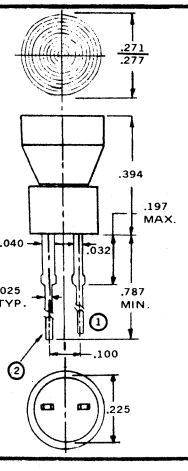


PD287a

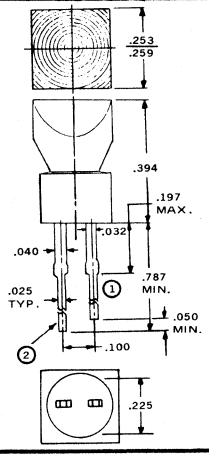
PD288



PD289



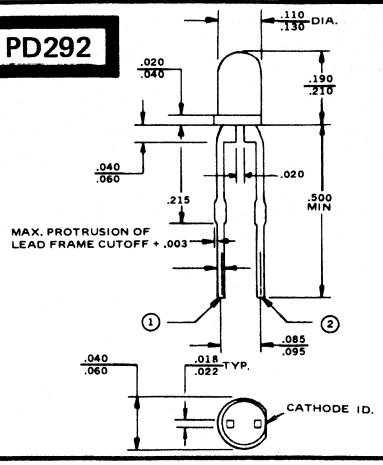
PD290



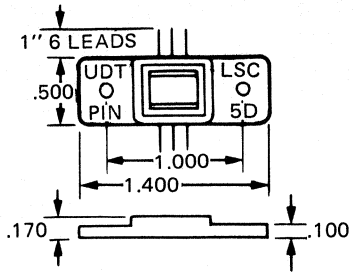
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

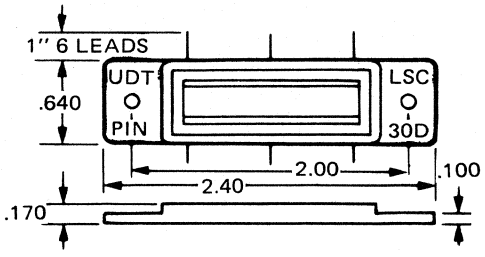
PD292



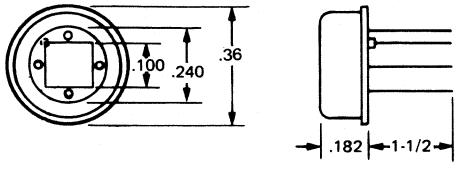
PD294



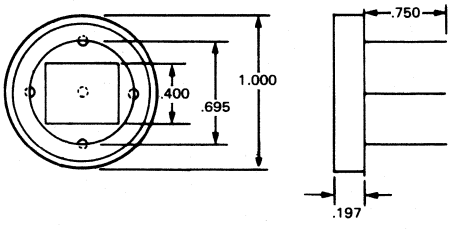
PD295



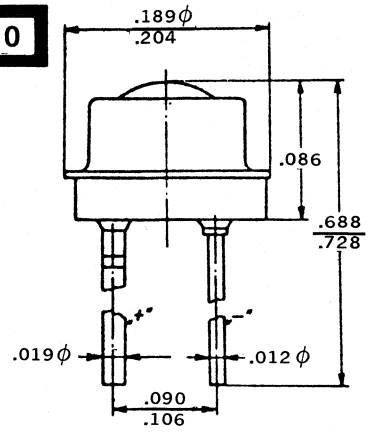
PD296



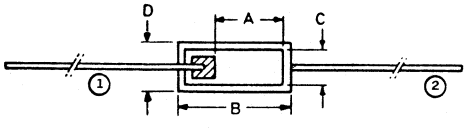
PD297



PD310

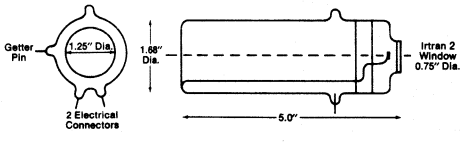


PD312

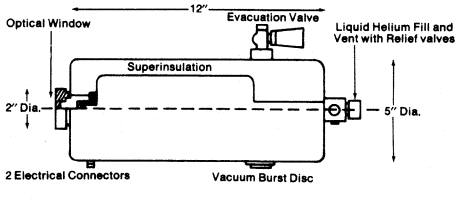


	A	B	C	D
PD312	.086 TYP	.125 .137	.374 TYP	.043 .055
PD312a	.137 TYP	.173 .185	.070 TYP	.074 .086

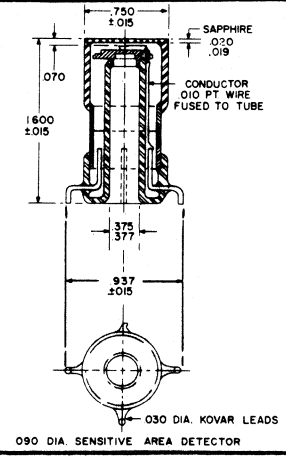
PD313



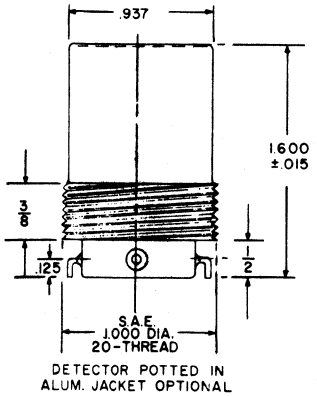
PD314



PD315



090 DIA. SENSITIVE AREA DETECTOR

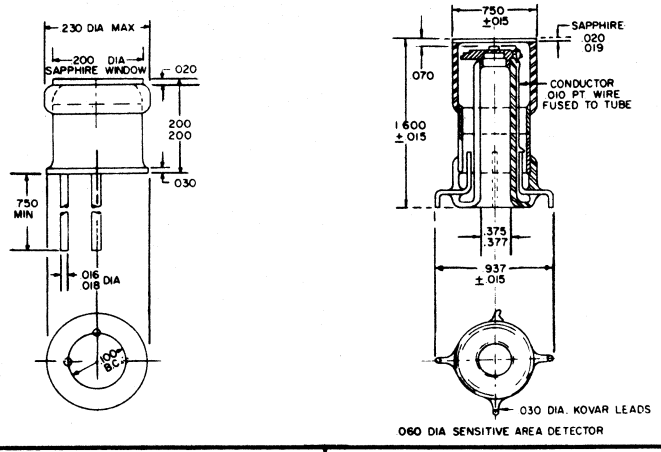


DETECTOR POTTED IN ALUM. JACKET OPTIONAL

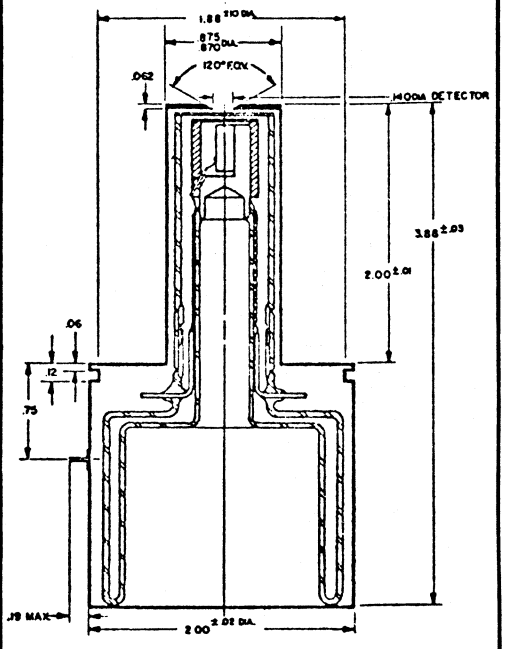
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

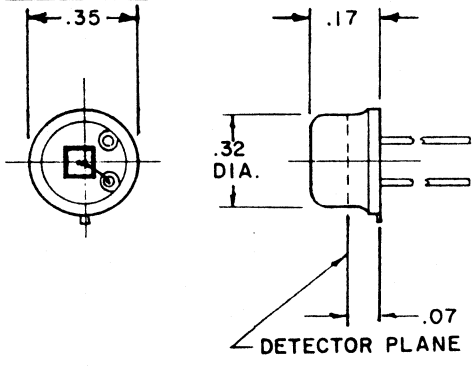
PD316



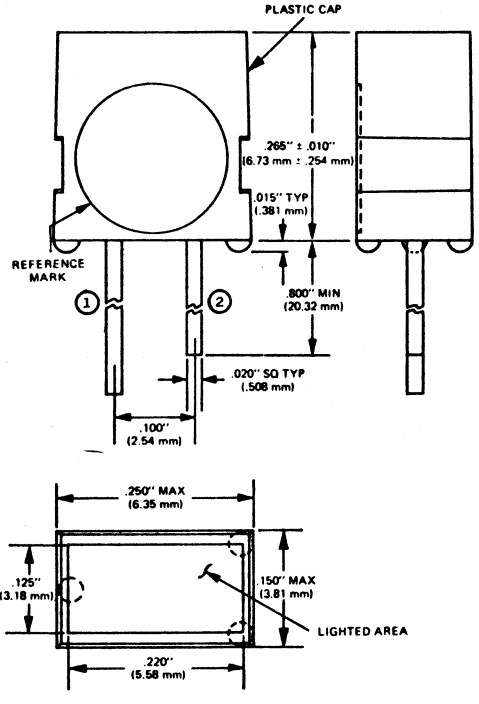
PD317



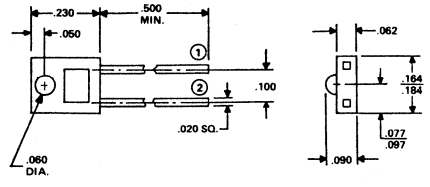
PD318



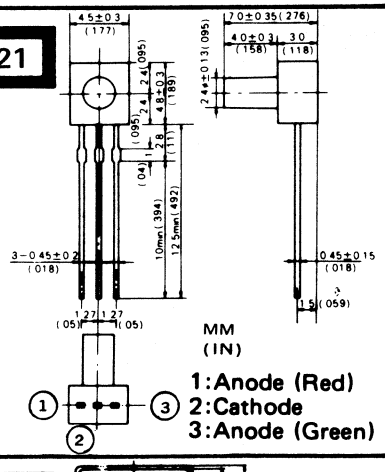
PD319



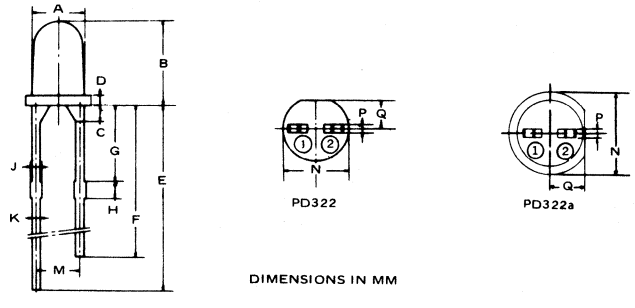
PD320



PD321



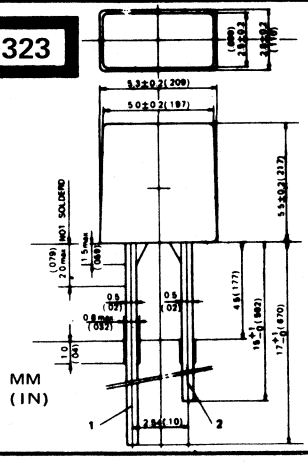
PD322



DIMENSIONS IN MM

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
PD322	2.80 3.20	4.80 5.20	1.50 MAX	.600	17.0 18.0	15.0 16.0	4.50	1.00	.800 MAX	.500	2.54	3.60 4.00	.500	1.70
PD322a	3.80 4.20	5.80 6.20	2.00 MAX	.800	17.0 18.0	15.0 16.0	4.50	1.00		.500	2.54	4.80 5.20	.500	2.10

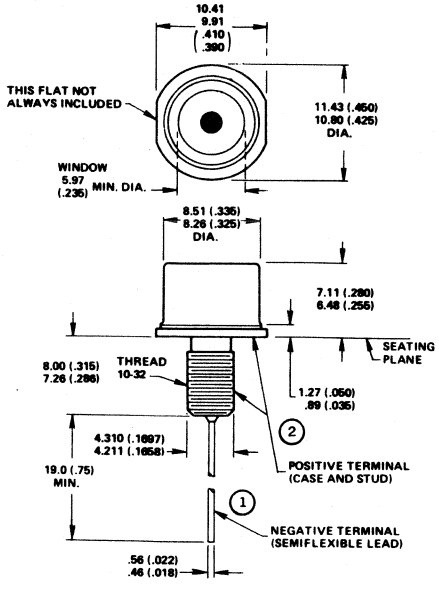
PD323



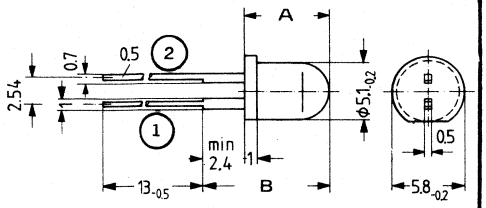
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD324



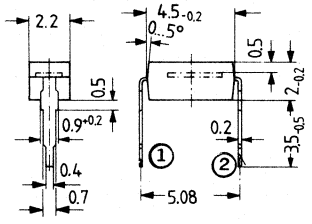
PD325



DIMENSIONS IN "MM"

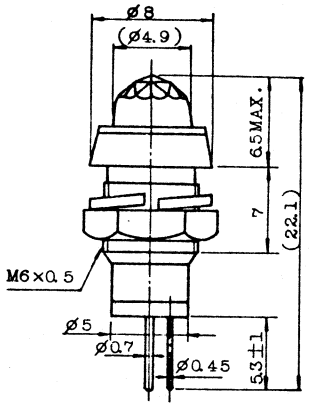
	A	B
PD325	8.6	11.6
PD325a	6.5	10.8
PD325b	8.6	12.2

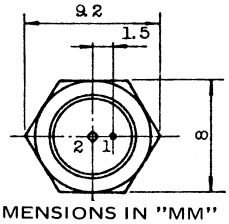
PD326



DIMENSIONS IN MM

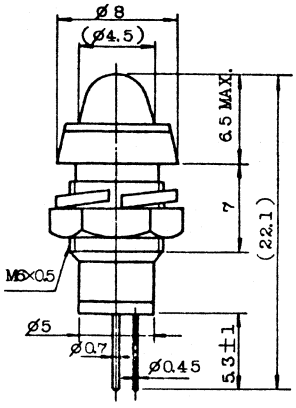
PD327

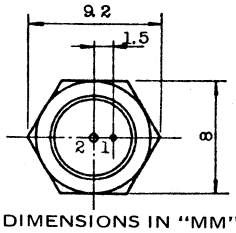




DIMENSIONS IN "MM"

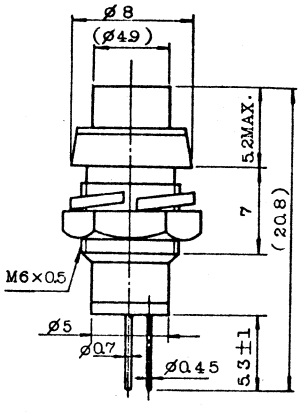
PD328

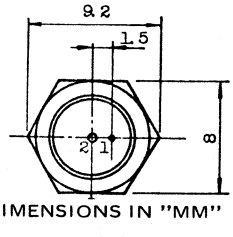




DIMENSIONS IN "MM"

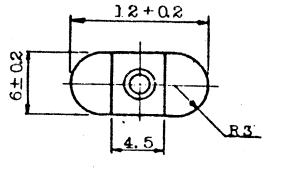
PD329

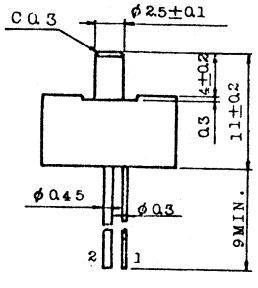


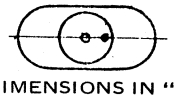


DIMENSIONS IN "MM"

PD330





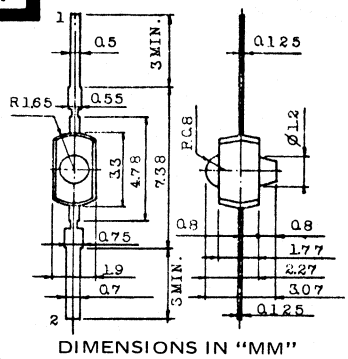


DIMENSIONS IN "MM"

49. OUTLINE DRAWINGS

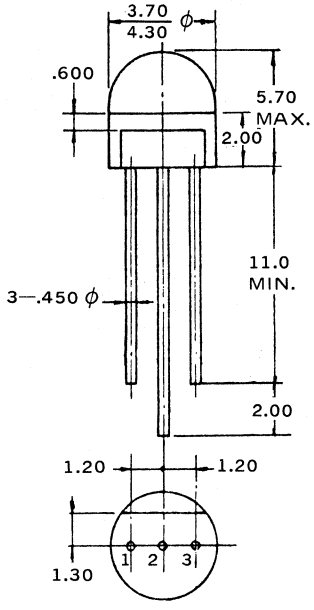
IN DRAWING NUMBER SEQUENCE

PD331



DIMENSIONS IN "MM"

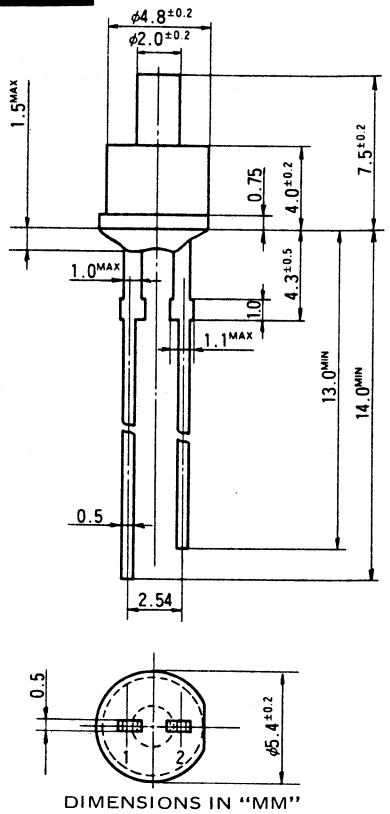
PD332



DIMENSIONS IN "MM"

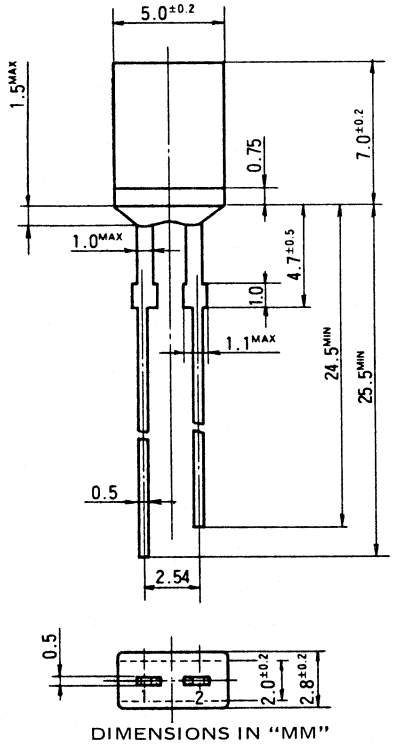
PIN 1: RED ANODE
PIN 2: CATHODE
PIN 3: GREEN ANODE

PD333



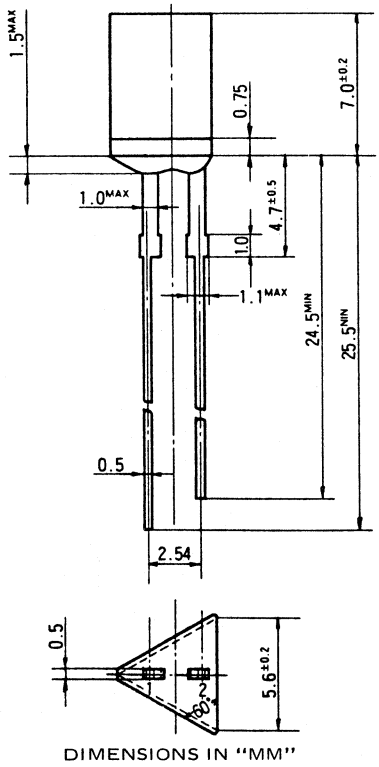
DIMENSIONS IN "MM"

PD334



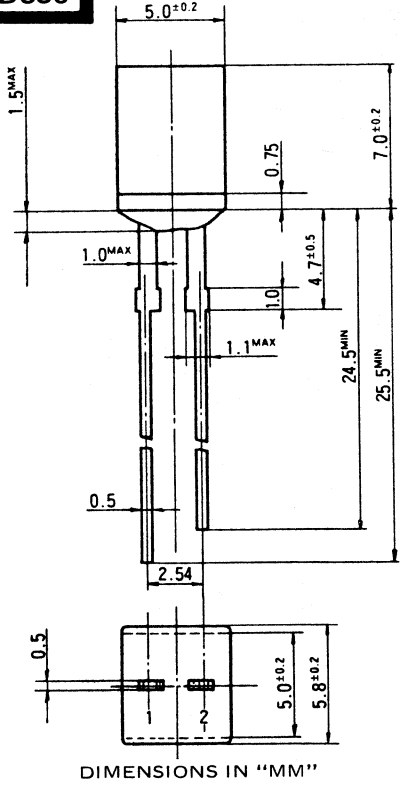
DIMENSIONS IN "MM"

PD335



DIMENSIONS IN "MM"

PD336

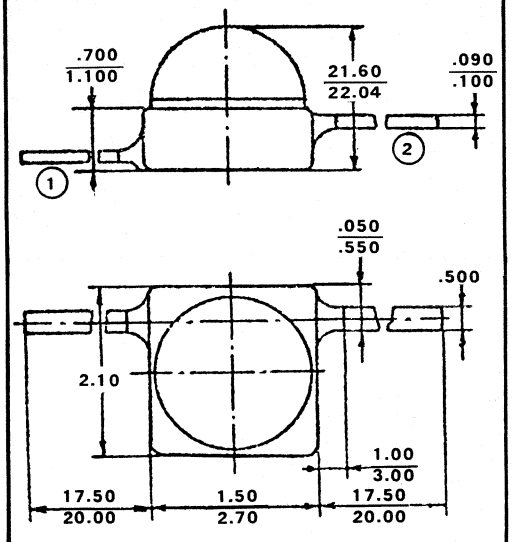


DIMENSIONS IN "MM"

49. OUTLINE DRAWINGS

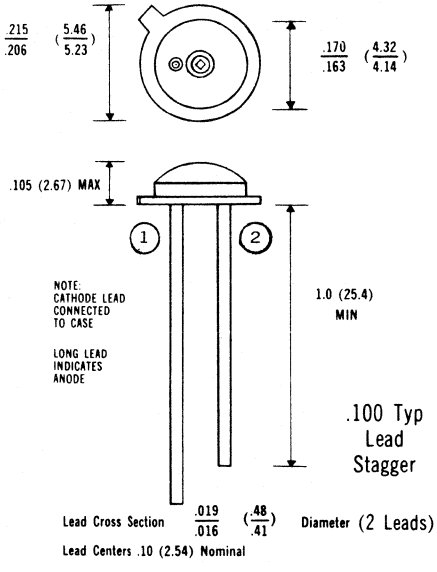
IN DRAWING NUMBER SEQUENCE

PD337

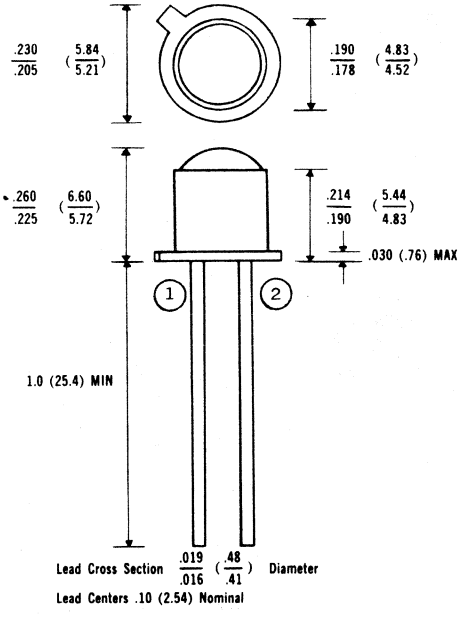


DIMENSIONS IN "MM"

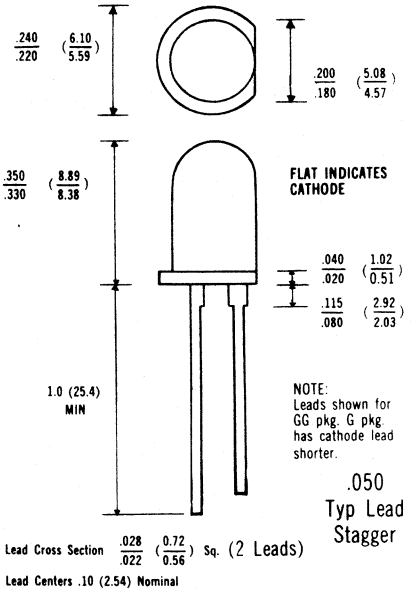
PD338



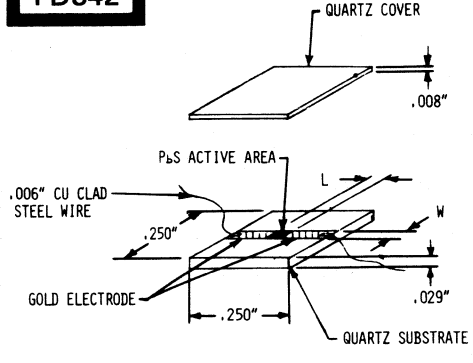
PD339



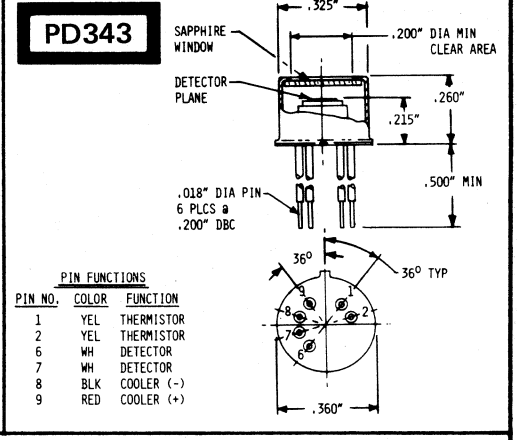
PD340



PD342



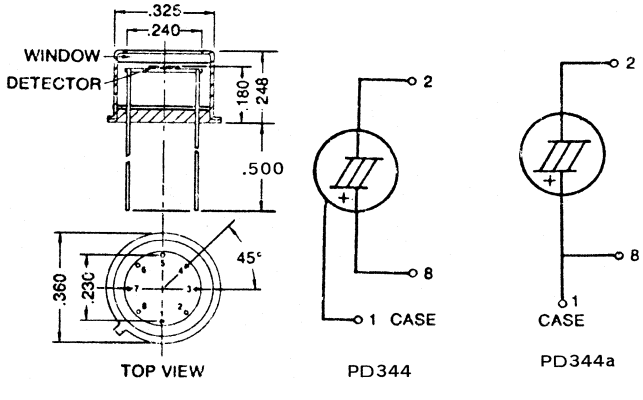
PD343



PIN FUNCTIONS

PIN NO.	COLOR	FUNCTION
1	YEL	THERMISTOR
2	YEL	THERMISTOR
6	WH	DETECTOR
7	WH	DETECTOR
8	BLK	COOLER (-)
9	RED	COOLER (+)

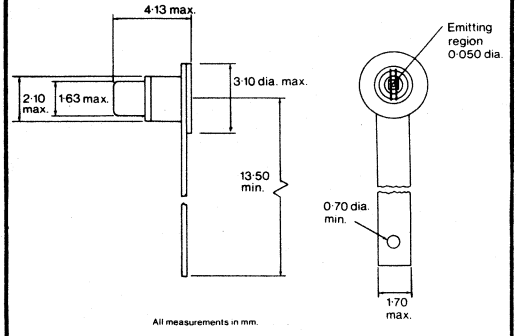
PD344



49. OUTLINE DRAWINGS

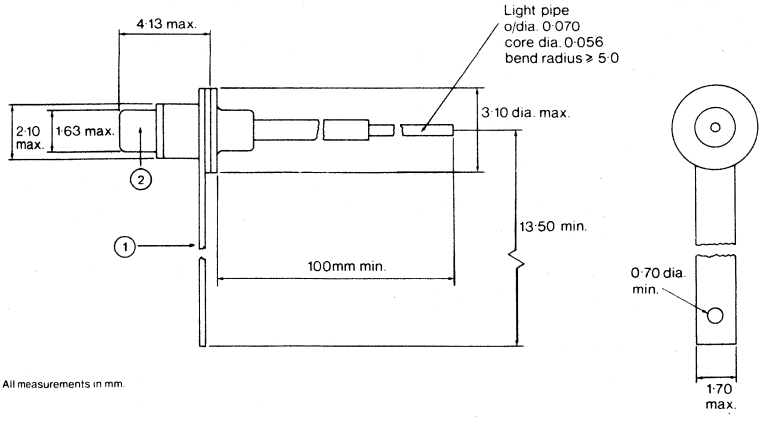
IN DRAWING NUMBER SEQUENCE

PD345



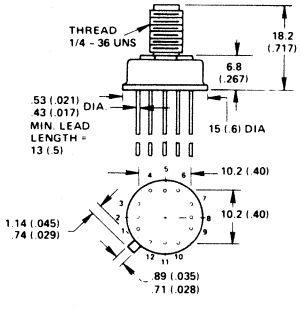
All measurements in mm.

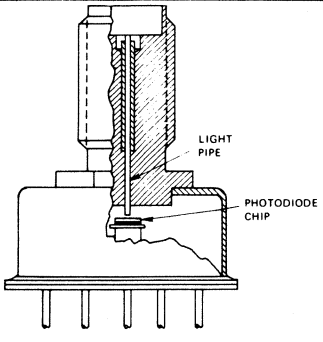
PD346



All measurements in mm.

PD347



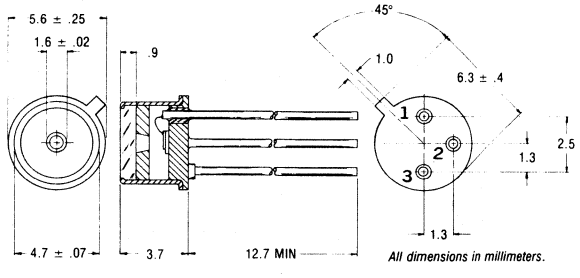


Cutaway of Package

Lead Connections
Lead No. 1: Signal Output
Lead No. 2: No Connection, Do Not Use
Lead No. 3: –6 V DC (Amplifier)
Lead No. 4: Positive Bias for Photodiode
Leads 5 through 9: No Connection, Do Not Use
Lead No.10: Ground
Lead No.11: No Connection, Do Not Use
Lead No.12: +6 V DC (Amplifier)

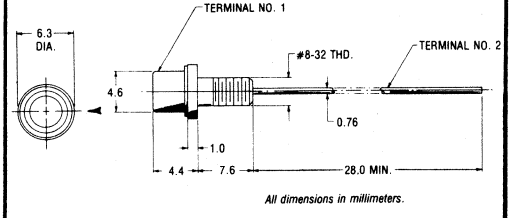
Dimensions in millimeters. Dimensions in parentheses are in inches.

PD348



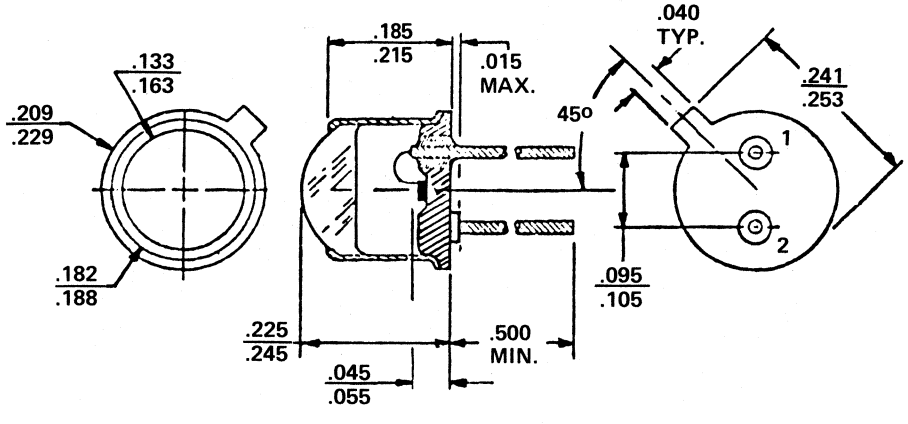
All dimensions in millimeters.

PD349



All dimensions in millimeters.

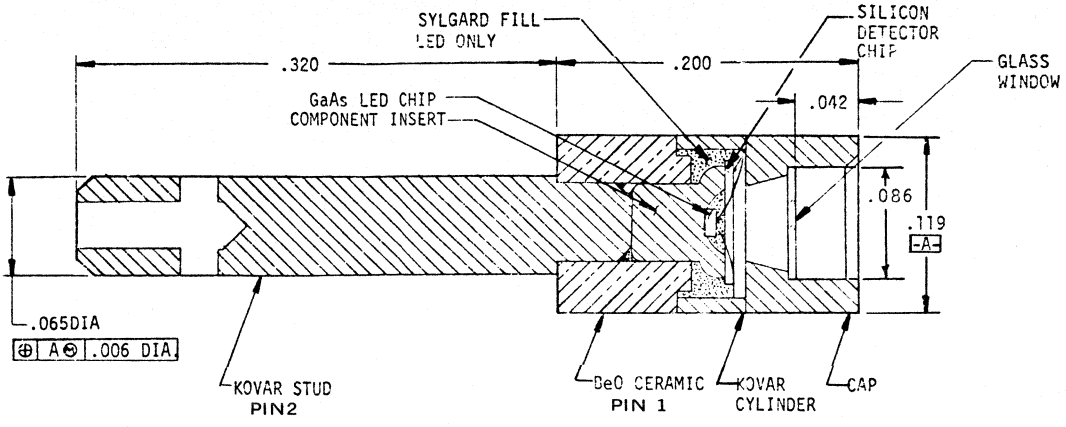
PD350



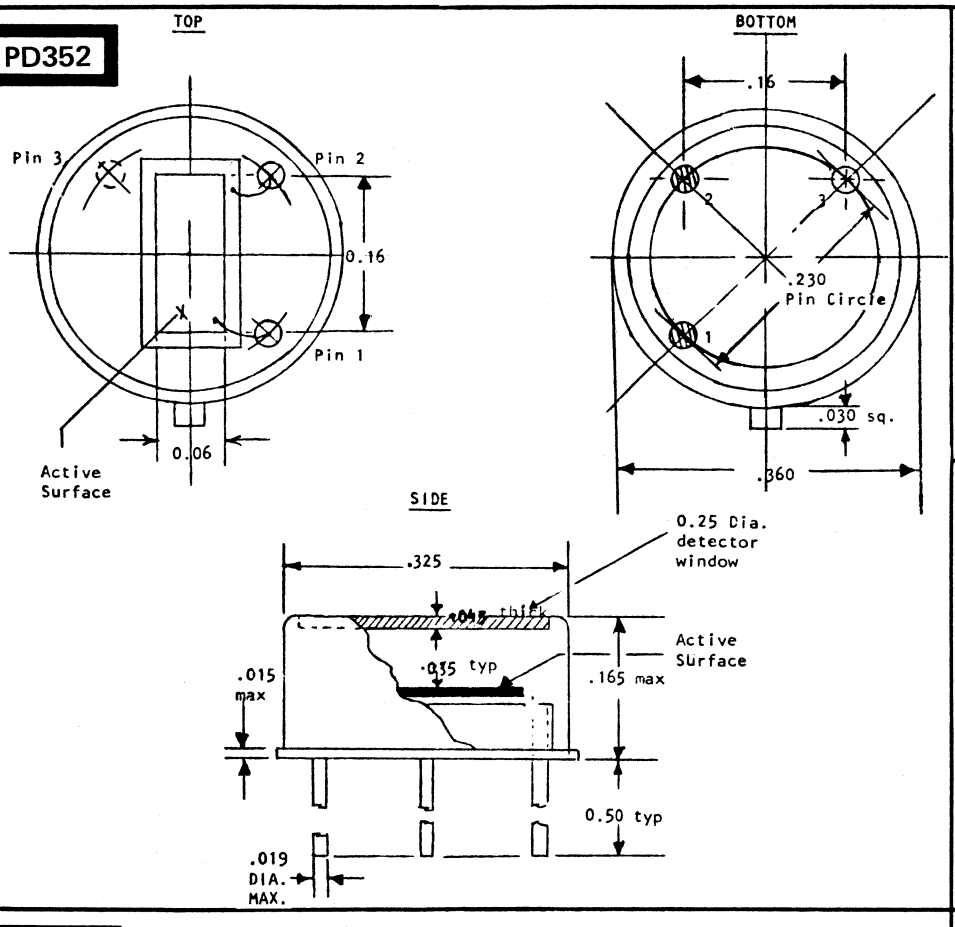
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

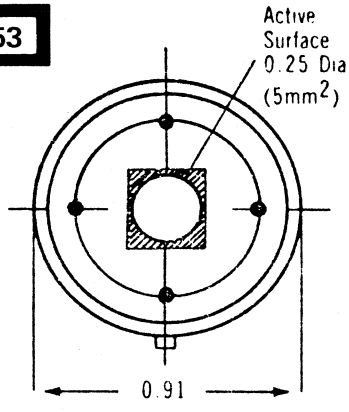
PD351



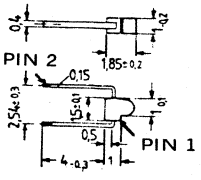
PD352



PD353

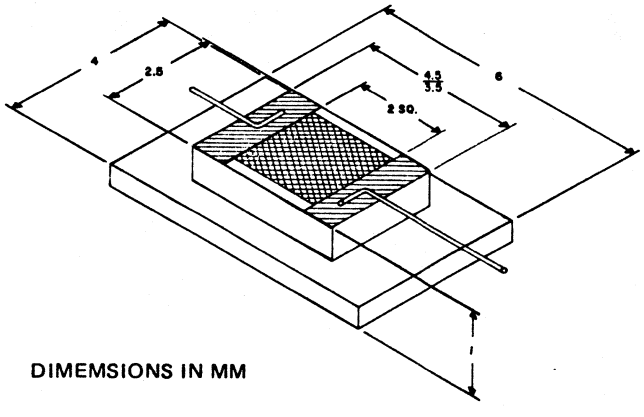


PD354



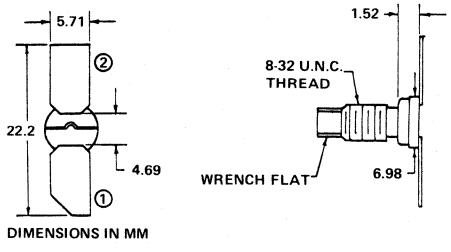
(DIMENSIONS IN MM)

PD355



DIMEMSIONS IN MM

PD356

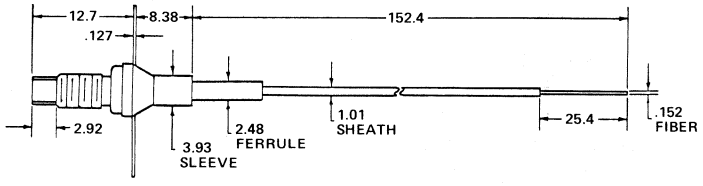


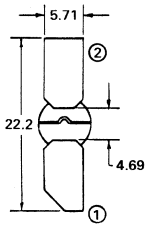
DIMENSIONS IN MM

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD357



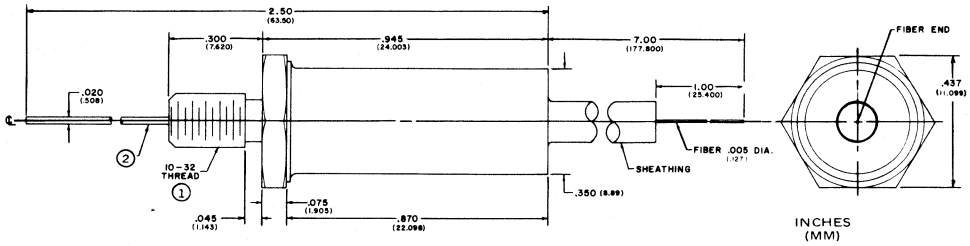


DIMENSIONS IN MM

PD357: WITH 0.3 NA, 125 μm CORE, 150 μm O.D. STEP INDEX, ALL GLASS FIBER PIGTAIL

PD357a: WITH 0.27 NA, 65 μm CORE, 125 μm O.D. GRADED INDEX, GLASS FIBER PIGTAIL

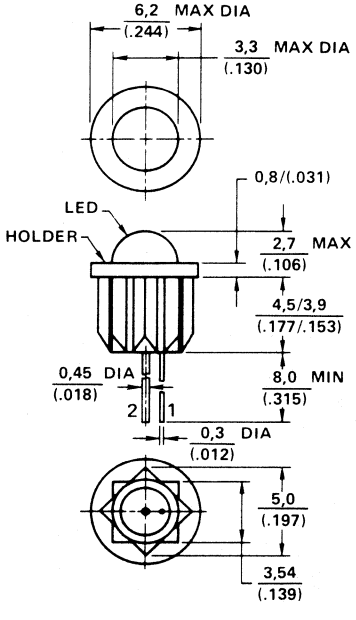
PD358



Fiber Pigtail Specs.

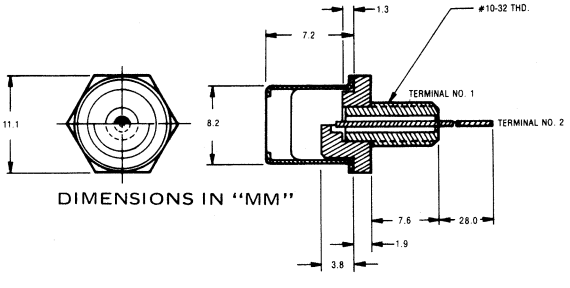
Type — Multimode-graded index-glass on glass
Fiber Diameter — 125 μm
Core Diameter — 65 μm
Numerical Aperture — .20
Attenuation @ 820 nm <20 dB/Km

PD359



No. 1 Anode, No. 2 Cathode,
Dimensions: mm / Inches

PD360

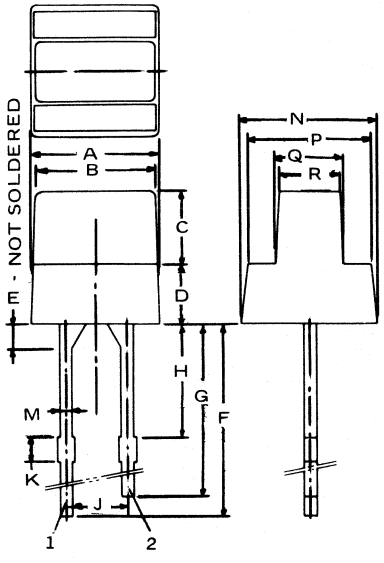


DIMENSIONS IN "MM"

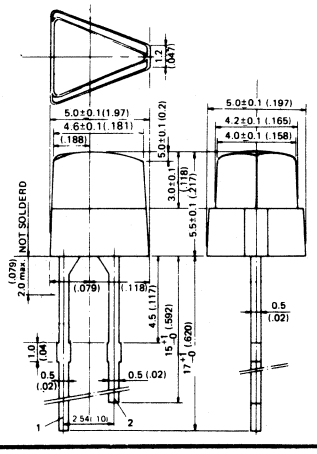
PD361

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
PD361	5.00 5.10	4.90 5.00	2.90 3.10	2.50	2.00 MAX	17.0 18.0	15.0 16.0	4.50	2.54	1.00	.500	5.40 5.60	4.90 5.10	2.65 2.85	2.52 2.62
PD361a	3.80 4.20	3.30 3.70	2.30 2.70	3.00	2.00 MAX	17.0 18.0	15.0 16.0	4.50	2.54	1.00	.500	3.80 4.20	3.40 3.80	2.10 2.50	1.60 2.00

DIMENSIONS IN MM

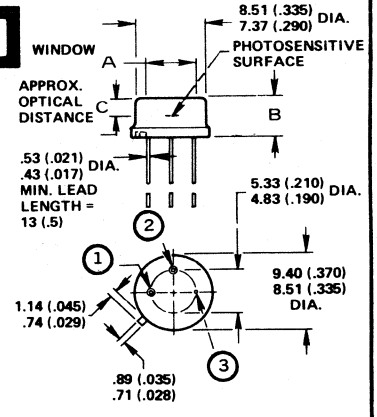


PD362



MM
(INCHES)

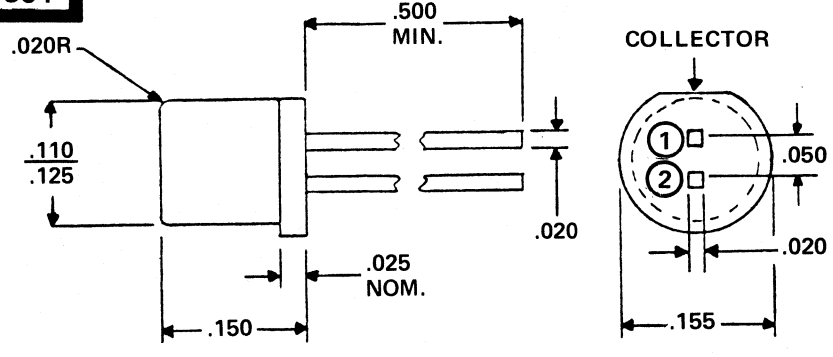
PD363



MM
(INCHES)

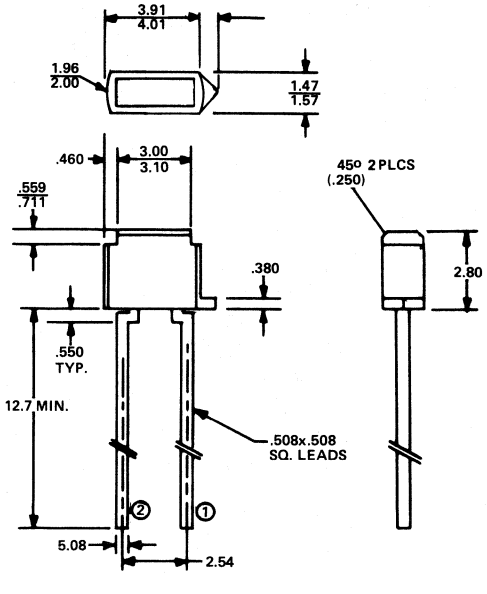
	A	B	C
PD363	7.1(.28)	5.51(.217)	3.56(.140)
PD363a	6.1(.24)	3.94(.155) 4.70(.185)	1.78(.070)

PD364

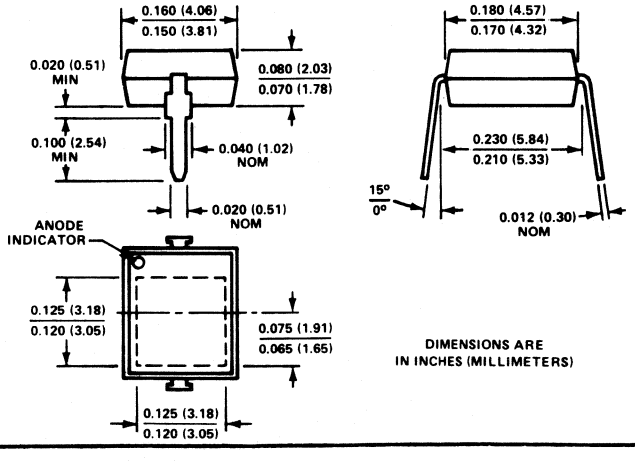


PD365

DIMENSIONS IN MM



PD366

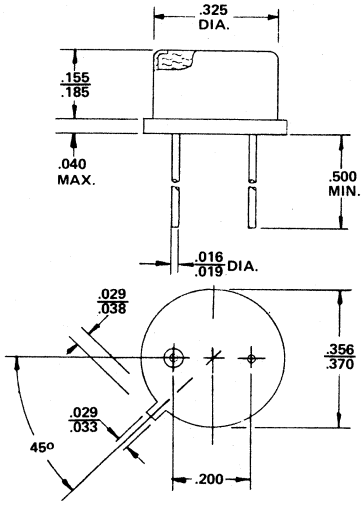


DIMENSIONS ARE
IN INCHES (MILLIMETERS)

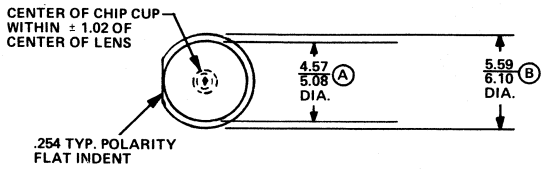
49. OUTLINE DRAWINGS

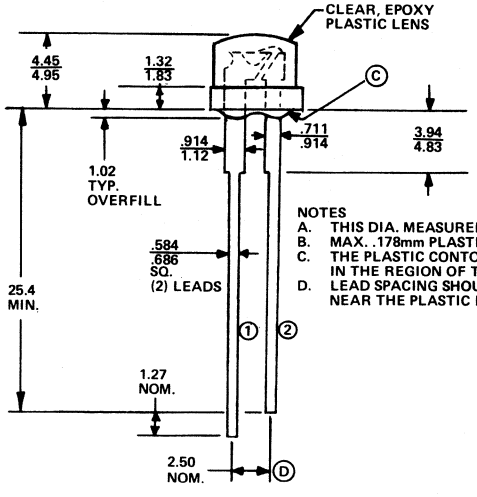
IN DRAWING NUMBER SEQUENCE

PD367



PD368

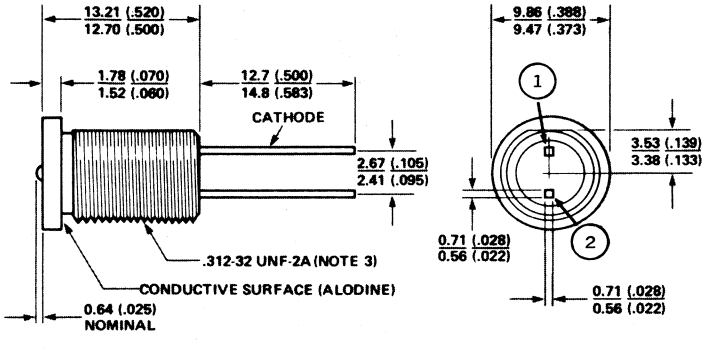




DIMENSIONS IN MM

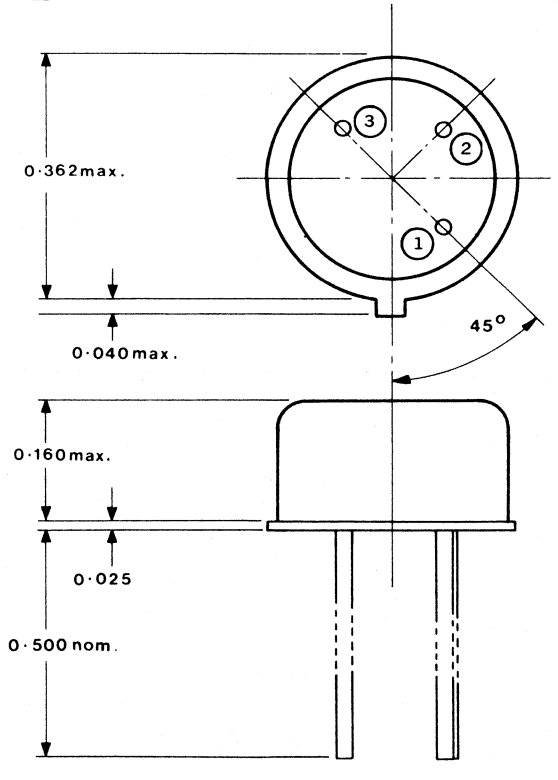
NOTES
A. THIS DIA. MEASURED .127 mm FROM SHOULDER
B. MAX. .178mm PLASTIC FLASH
C. THE PLASTIC CONTOUR IS NOT CONTROLLED IN THE REGION OF THE LEADS
D. LEAD SPACING SHOULD BE MEASURED NEAR THE PLASTIC LENS

PD369



NOTES:
1. ALL EXTERNAL METAL SURFACES OF THE PACKAGE ARE BLACK ANODIZED EXCEPT FOR THE ALODINE AREA OF THE FLANGE AND THE GOLD PLATED LEADS.
2. MOUNTING HARDWARE WHICH INCLUDES ONE LOCK WASHER AND ONE HEX-NUT IS INCLUDED WITH EACH PANEL MOUNTABLE HERMETIC SOLID STATE LAMP.
3. USE OF METRIC DRILL SIZE 8.20 MILLIMETRES OR ENGLISH DRILL SIZE P (0.323 INCH) IS RECOMMENDED FOR PRODUCING HOLE IN THE PANEL FOR PANEL MOUNTING.
4. ALL DIMENSIONS ARE IN MILLIMETRES (INCHES).

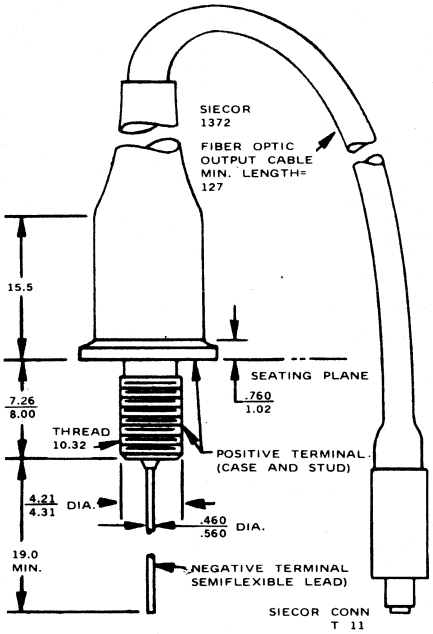
PD370



49. OUTLINE DRAWINGS

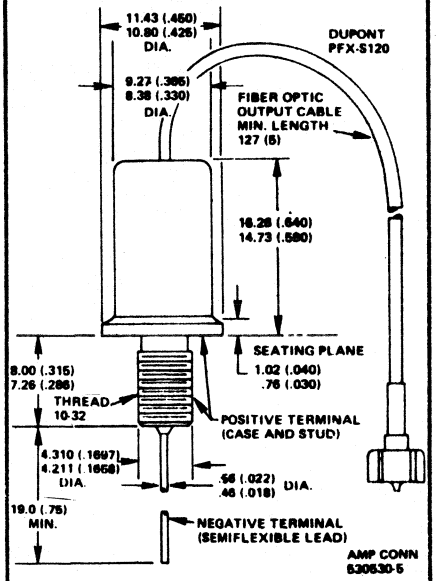
IN DRAWING NUMBER SEQUENCE

PD371

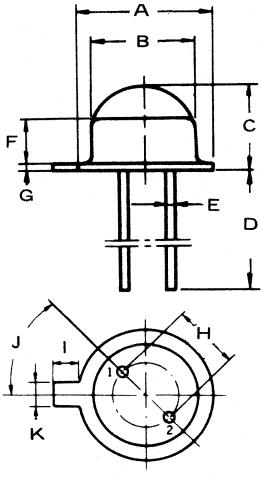


DIMENSIONS IN MM

PD372



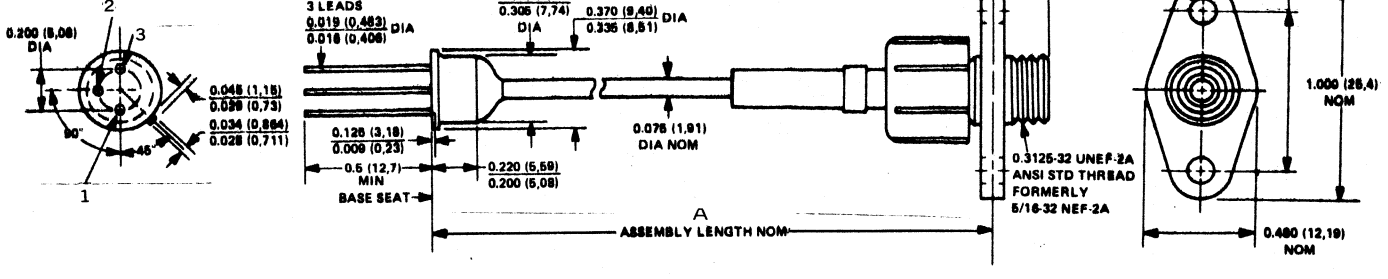
PD373



	A	B	C	D	E	F	G	H	I	J	K
PD373	.211	.165	.149 MAX	.492 MIN	.018	.070	.008	.100	.041	45°	.037
PD373a	.228 MAX	.101 .169	.197 MAX	.945 MIN	.018	.098	.008	.100	.047	45°	.047

PD374

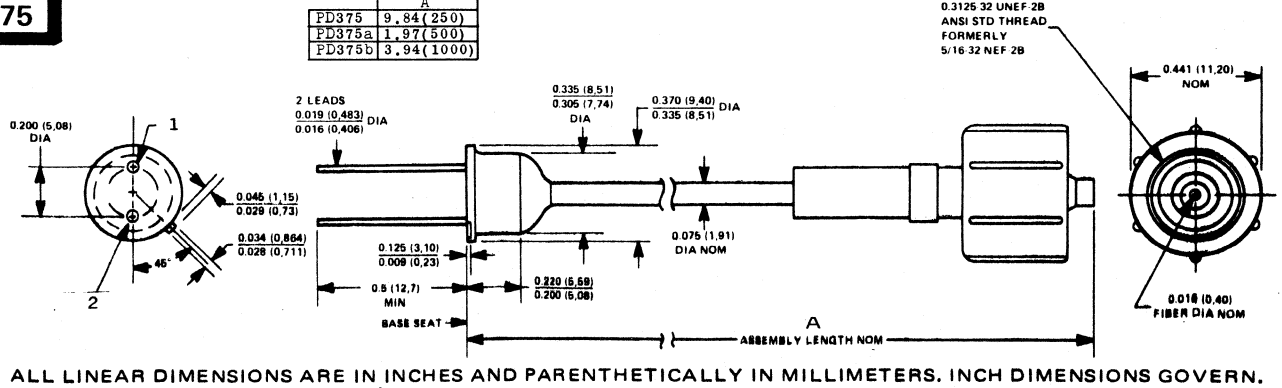
	A
PD374	9,84(250)
PD374a	1,97(500)
PD374b	3,94(1000)



ALL LINEAR DIMENSIONS ARE IN INCHES AND PARENTHETICALLY IN MILLIMETERS. INCH DIMENSIONS GOVERN.

PD375

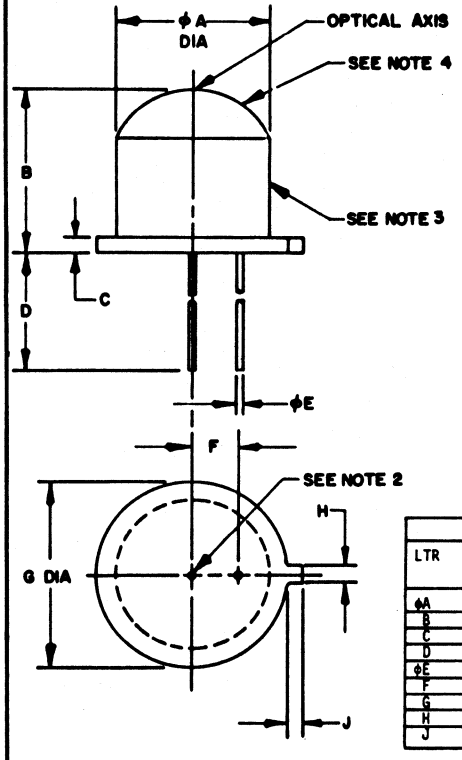
	A
PD375	9,84(250)
PD375a	1,97(500)
PD375b	3,94(1000)



ALL LINEAR DIMENSIONS ARE IN INCHES AND PARENTHETICALLY IN MILLIMETERS. INCH DIMENSIONS GOVERN.

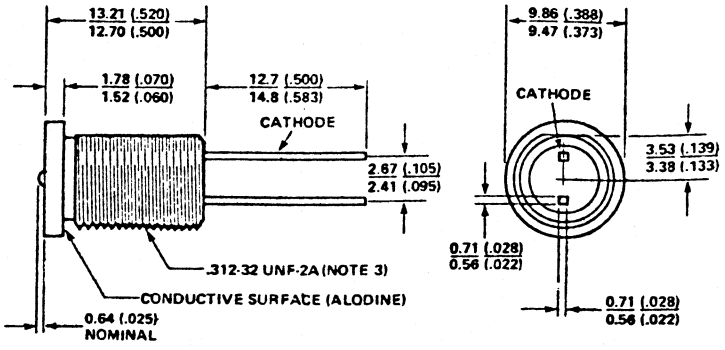
PD376

NOTES:
1. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
2. Cathode lead; both leads isolated from case.
3. Glass/metal hermetic can.
4. Colored lens.



DIMENSIONS				
LTR	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
ϕA	.176	.190	4.47	4.83
B	.180	.225	4.57	5.72
C	.016	.024	.41	.61
D	.970	ϕ1.030	24.64	26.16
ϕE	.016	.019	.41	.48
F	.045	.055	1.14	1.40
G	.200	.220	5.08	5.59
H	.035	.045	.89	1.14
J	.032	.042	.81	1.07

VARIATION I

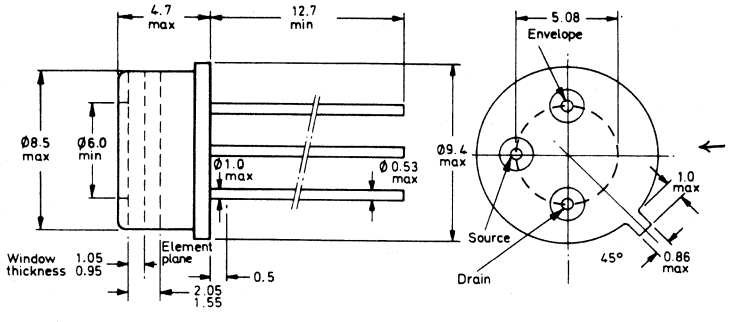


VARIATION II: PANEL-MOUNTED ASSEMBLIES

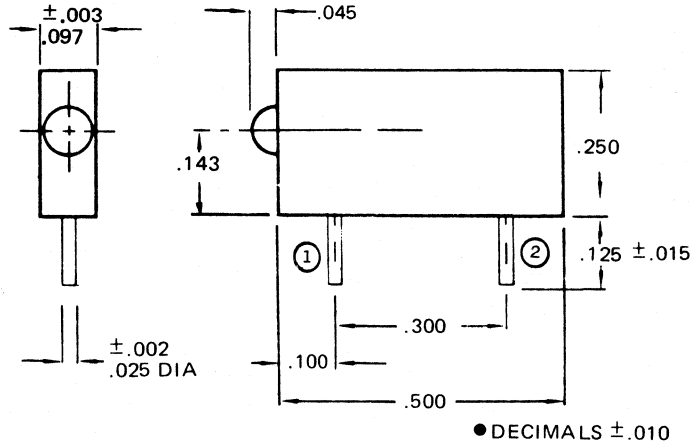
1. ALL EXTERNAL METAL SURFACES OF THE PACKAGE ARE BLACK ANODIZED EXCEPT FOR THE ALODINE AREA OF THE FLANGE AND THE GOLD PLATED LEADS.
2. MOUNTING HARDWARE WHICH INCLUDES ONE LOCK WASHER AND ONE HEX-NUT IS INCLUDED WITH EACH PANEL MOUNTABLE HERMETIC SOLID STATE LAMP.
3. USE OF METRIC DRILL SIZE 8.20 MILLIMETERS OR ENGLISH DRILL SIZE P (0.323 INCH) IS RECOMMENDED FOR PRODUCING HOLE IN THE PANEL FOR PANEL MOUNTING.
4. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES).

PD377

Dimensions in mm



PD378

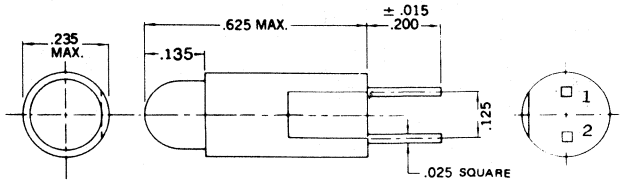


● DECIMALS ±.010

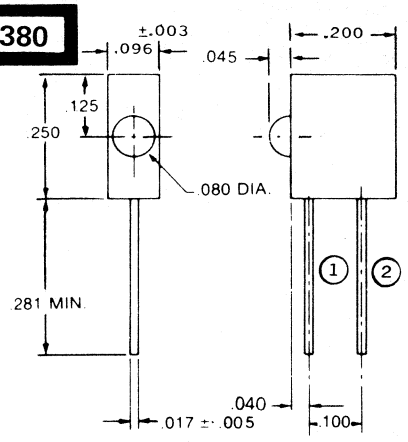
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

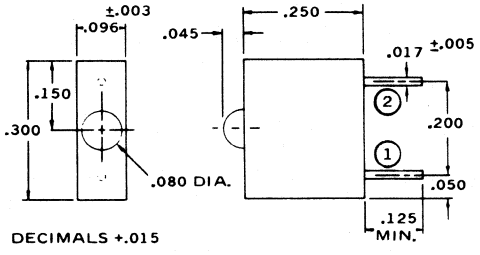
PD379



PD380

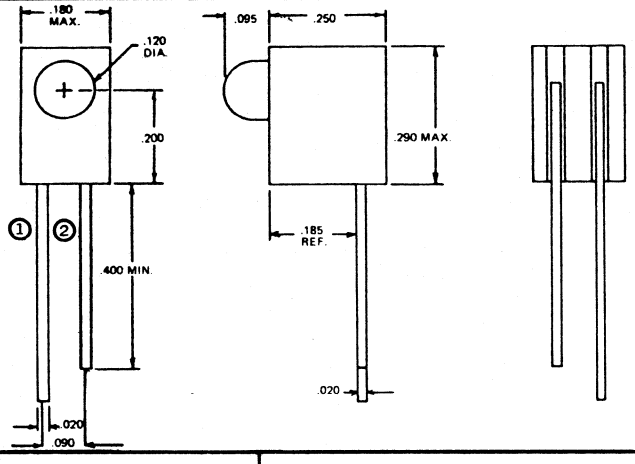


PD381

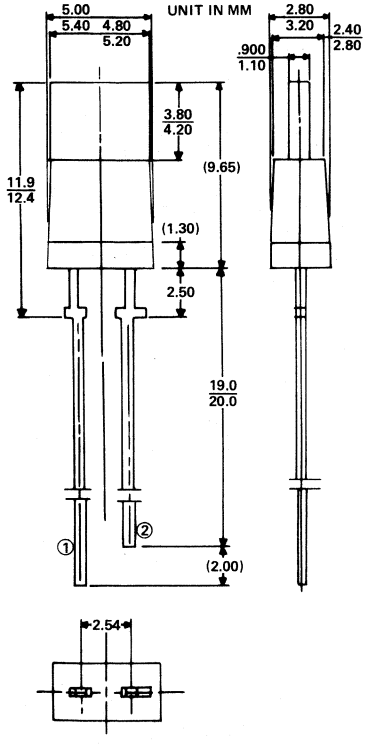


DECIMALS +.015

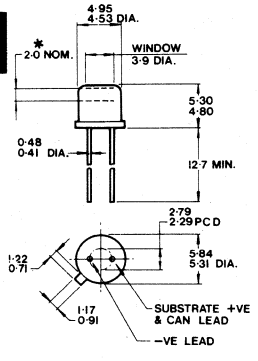
PD382



PD383



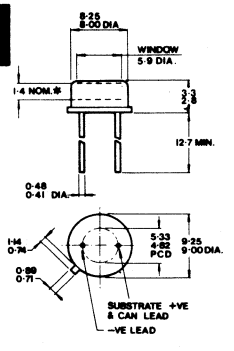
PD384



(all dimensions in mm)

Dimension* refers to distance between window and active surface.

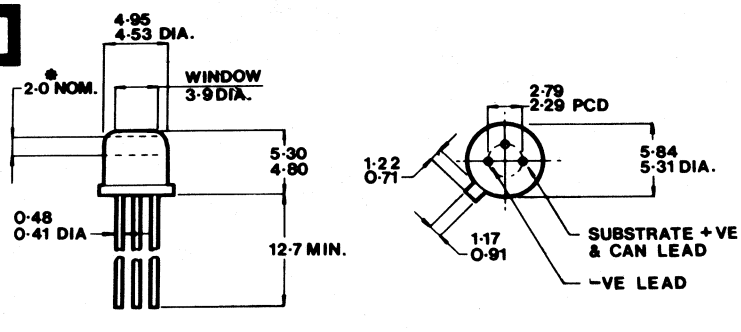
PD385



(all dimensions in mm)

Dimension* refers to distance between window and active surface.

PD386



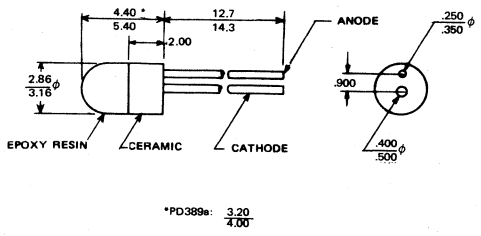
(all dimensions in mm) Dimension* refers to distance between window and active area.

(SUFFIX)	DIODE OPTION
-R	Electrically Isolated from the Can
-2	Centraly Mounted to A Tolerance ±0,25mm on the Header
-R2	Electricaly Isolated and Centraly Mounted

49. OUTLINE DRAWINGS

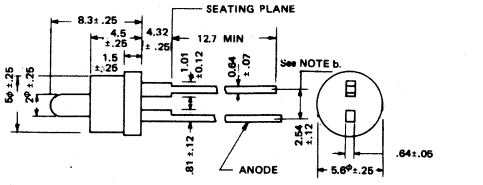
IN DRAWING NUMBER SEQUENCE

PD389



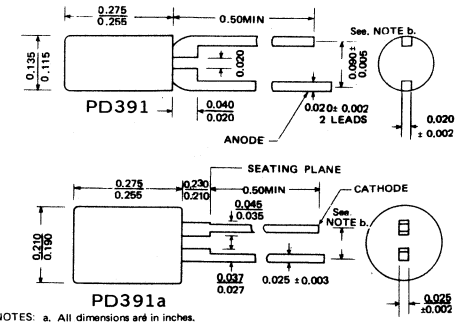
*PD389e: 3.20 / 4.00

PD390



NOTES: a. All dimensions are in millimeters.
b. Lead spacing is measured where the leads emerge from the package.

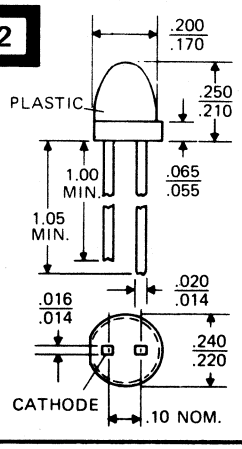
PD391



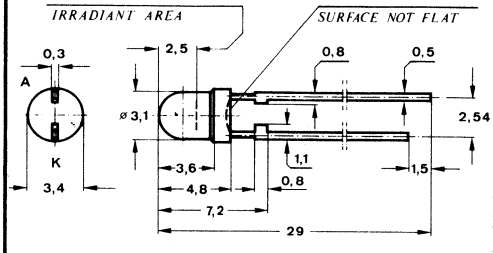
NOTES: a. All dimensions are in inches.
b. Lead spacing is measured where the leads emerge from the package.

PD392

Low Dome

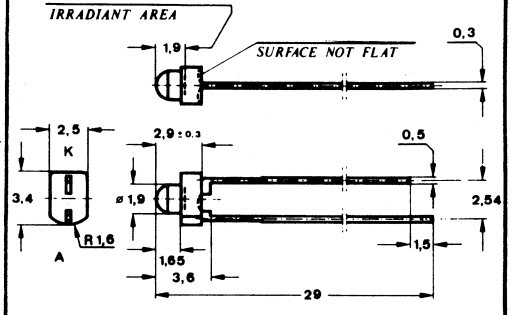


PD393



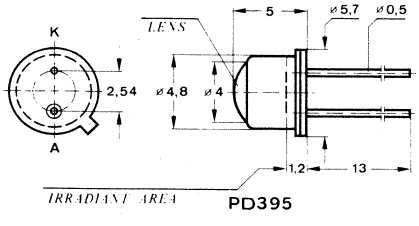
DIMENSIONS IN "MM"

PD394

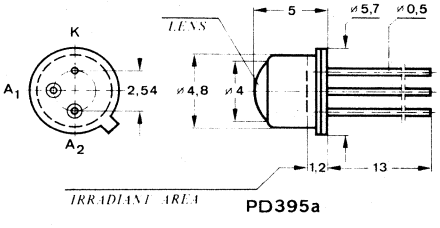


DIMENSIONS IN "MM"

PD395



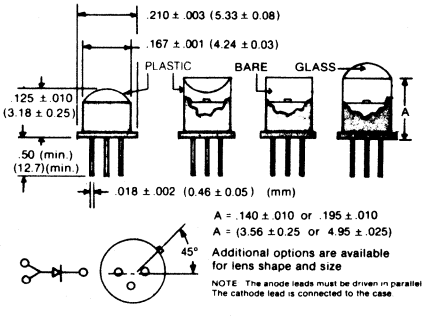
PD395



PD395a

DIMENSIONS IN "MM"

PD396

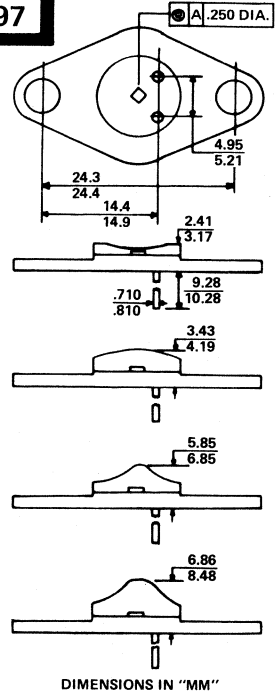


A = .140 ± .010 or .195 ± .010
A = (3.56 ± 0.25 or 4.95 ± .025)

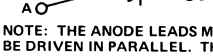
Additional options are available for lens shape and size

NOTE The anode leads must be driven in parallel. The cathode lead is connected to the case.

PD397

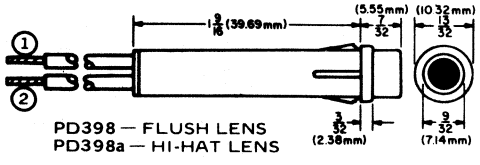


DIMENSIONS IN "MM"



NOTE: THE ANODE LEADS MUST BE DRIVEN IN PARALLEL. THE CATHODE LEAD IS CONNECTED TO THE CASE.

PD398

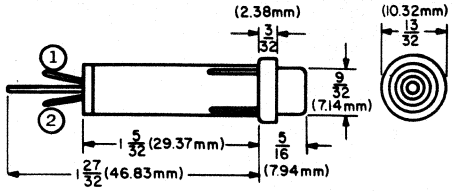


PD398 — FLUSH LENS
PD398a — HI-HAT LENS

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

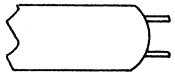
PD399



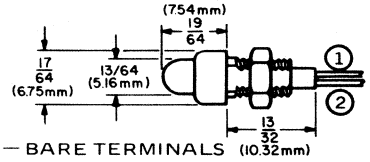
PD399 AND PD399b — FLUSH LENS
PD399a AND PD399c — HI-HAT LENS

PD399b,c

SAME AS PD399 AND PD399a EXCEPT WITH MALE PIN TERMINALS .040" (1.0mm) DIAMETER WITH 5/32" (3.96mm) SPACING. .020" (.50mm) OFF CENTER — SEE CUTAWAY DRAWING.

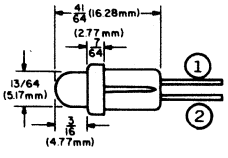


PD400



PD400 — BARE TERMINALS
PD400a — INSULATED WIRE

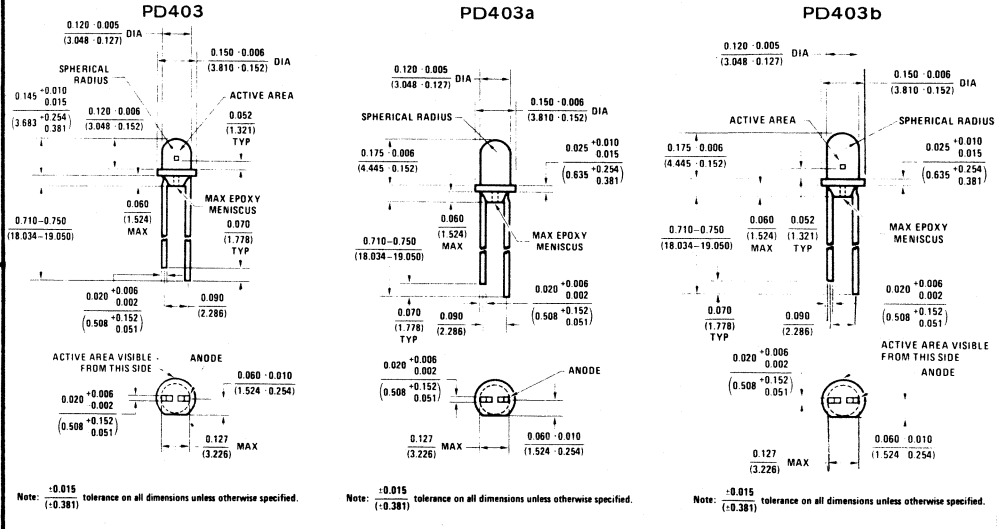
PD401



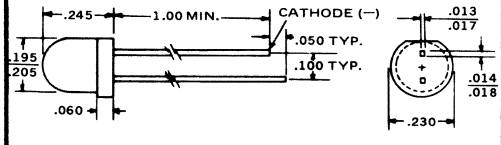
PD401 — BARE TERMINALS
PD401a — INSULATED WIRE

PD403

inches (millimeters)



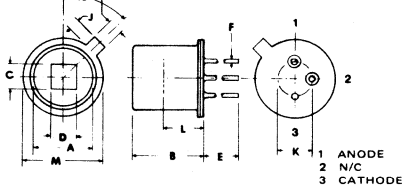
PD404



TOLERANCE ± .010

PD405

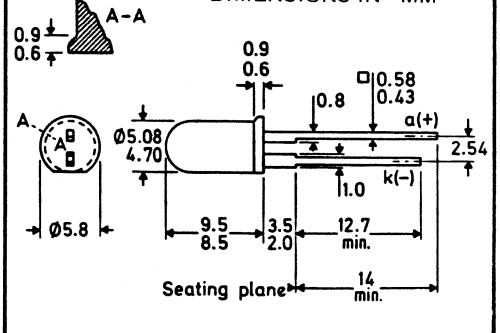
Ref.	Inches		Millimeters	
	Min.	Max.	Min.	Max.
A	.178	.188	4.52	4.78
B	.195	.205	4.96	5.21
C	.075	.080	1.91	2.03
D	.075	.080	1.91	2.03
E	.5 Nominal		12.8 Nominal	
F	.016	.019	.41	.48
H	.035	.045	.89	1.15
J	.033	.048	.84	1.22
K	.096	.104	2.43	2.65
L	.105	.115	2.68	2.92
M	.202	.213	5.12	5.41



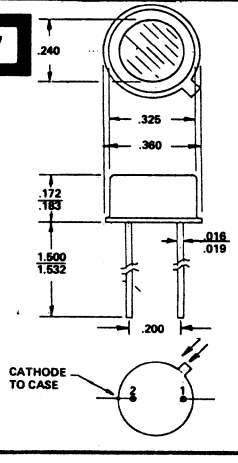
1 ANODE
2 N/C
3 CATHODE

PD406

DIMENSIONS IN "MM"



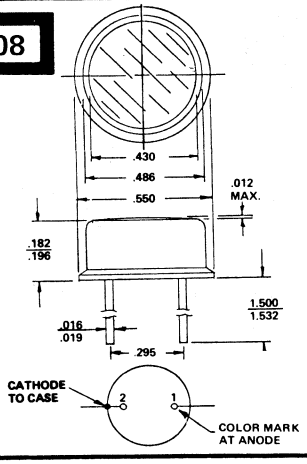
PD407



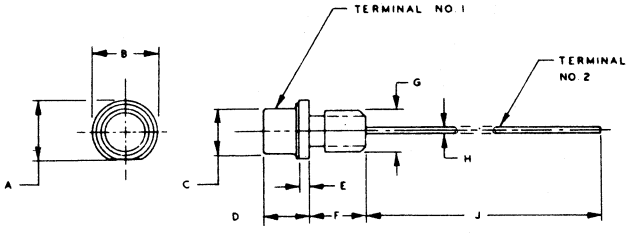
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PD408

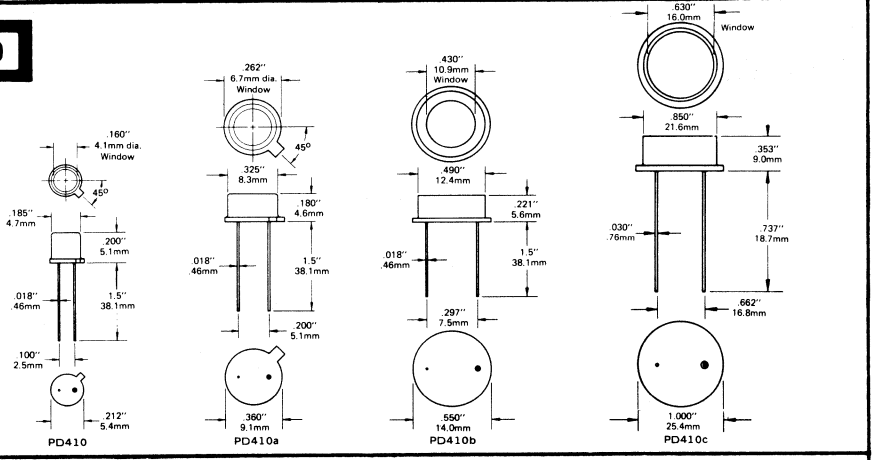


PD409

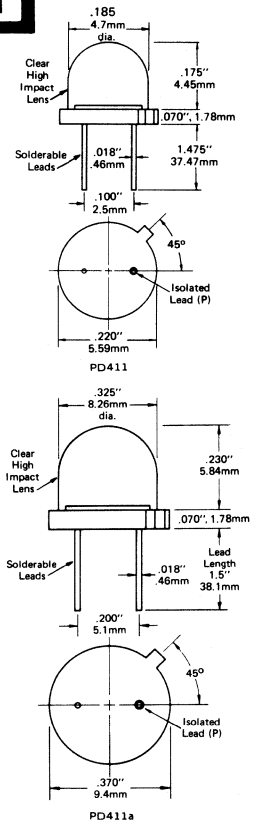


SYMBOL	INCHES TYP.	MILLIMETERS TYP.
A	.232	5.893
B	.250	6.350
C	.183	4.648
D	.176	4.470
E	.040	1.016
F	.200	5.080
G	#8-32THD	—
H	.030	0.762
J	1.130	28.702

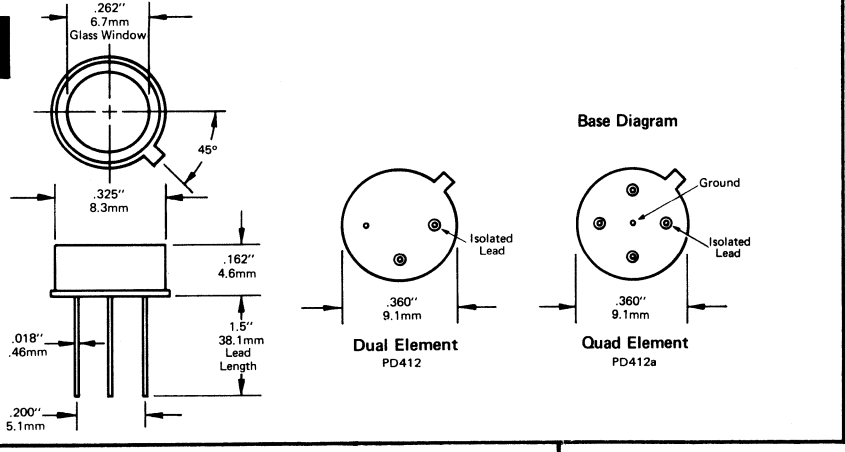
PD410



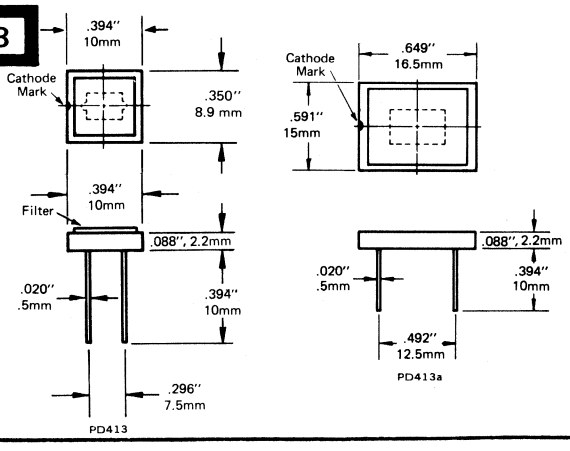
PD411



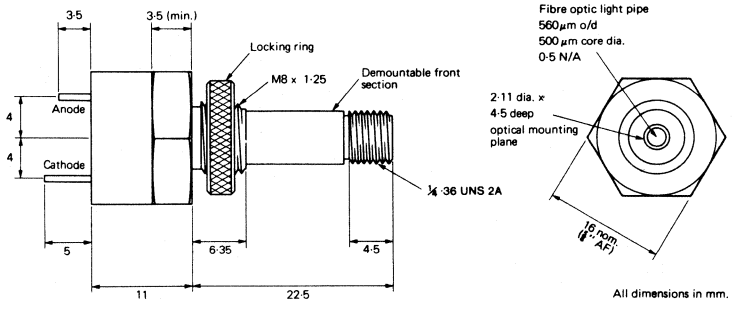
PD412



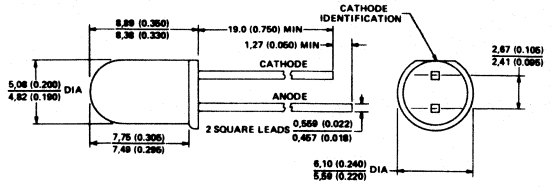
PD413



PD414

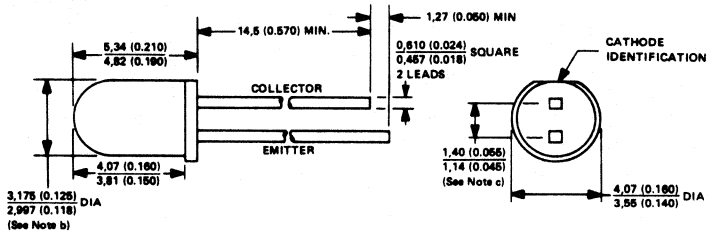


PD415



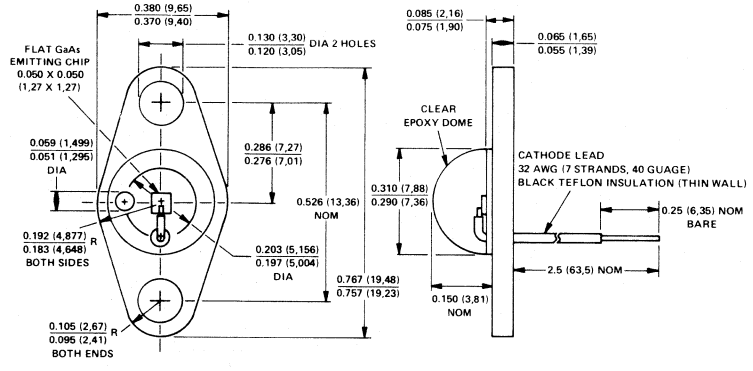
ALL DIMENSIONS ARE IN MILLMETERS AND PARENTHETICALLY IN INCHES

PD416



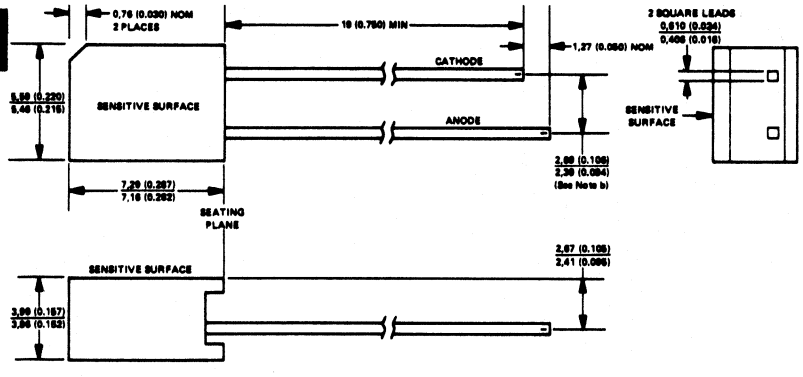
NOTES: a. All dimensions are in millimeters and parenthetically in inches.
b. This diameter is measured 0,127 mm (0.005 inches) from the shoulder.
c. Lead spacing is measured where the leads emerge from the package.

PD417



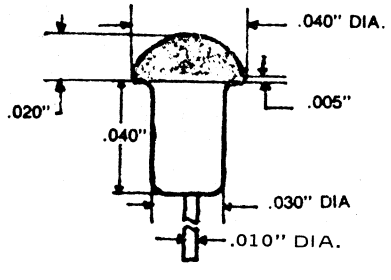
ALL DIMENSIONS ARE IN INCHES AND PARENTHETICALLY IN MILLIMETERS, INCH DIMENSIONS GOVERN

PD418



NOTES: a. All dimensions are in millimeters and parenthetically in inches.
b. Lead spacing is measured at the seating plane.

PD419

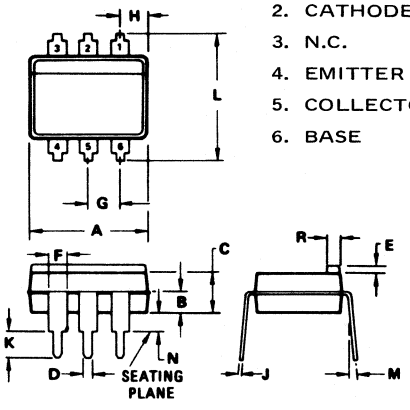


49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

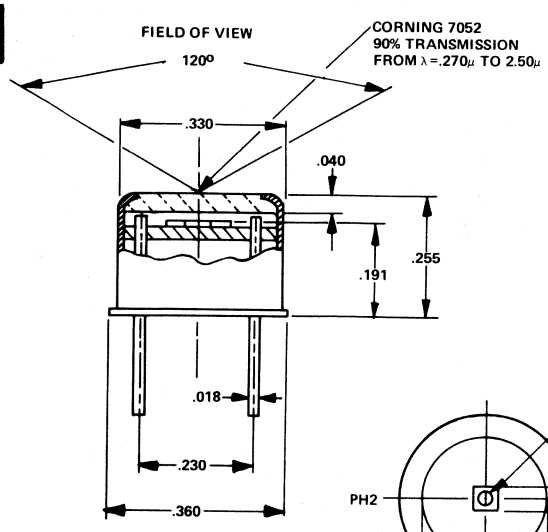
PH1

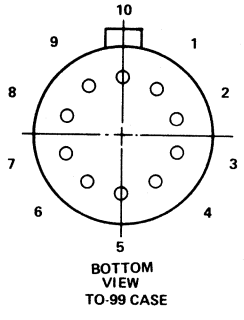
1. ANODE
2. CATHODE
3. N.C.
4. EMITTER
5. COLLECTOR
6. BASE



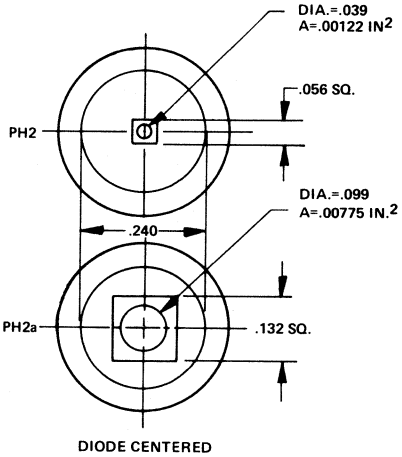
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	8.38	8.89	0.330	0.350
B	1.40	1.65	0.055	0.065
C	2.92	3.18	0.115	0.125
D	0.38	0.53	0.015	0.021
E	–	1.02	–	0.040
F	1.02	1.27	0.040	0.050
G	2.54 BSC		0.100 BSC	
H	1.57	1.83	0.062	0.072
J	0.23	0.28	0.009	0.011
K	2.92	3.30	0.115	0.130
L	7.37	7.87	0.290	0.310
M	–	10°	–	10°
N	0.51	1.27	0.020	0.050
R	–	1.90	–	0.075

PH2



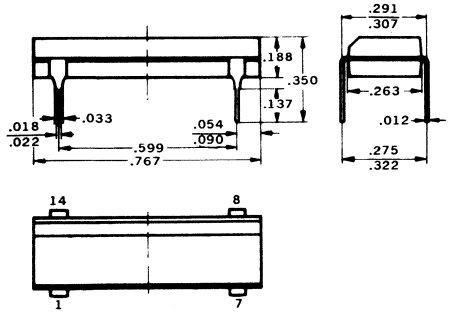


BOTTOM VIEW TO-99 CASE

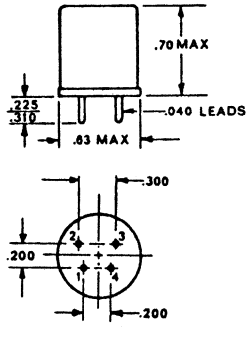


DIODE CENTERED TO WITHIN .003

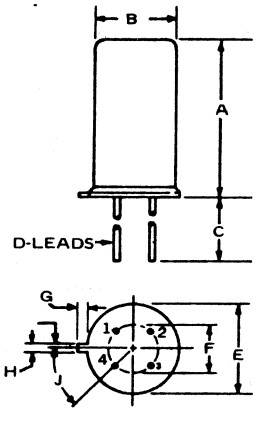
PH3



PH6



PH7

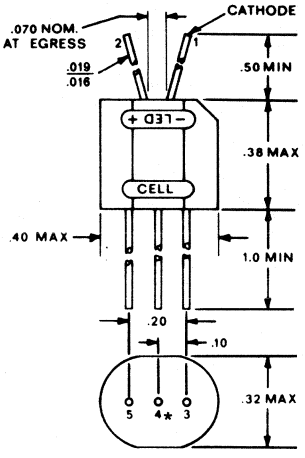


	A	B	C	D	E	F	G	H	J
PH7	.640	.325	1.00 MIN	.017	.360	.200	.040	.032	45°
PH7a	.265	.325	1.00 MIN	.016 .019	.360	.200	.040	.032	45°
PH7b	.170 .210	.178 .195	.500 .560	.016 .019	.209 .230	.100	.028 .048	.036 .046	45°
PH7c	.259 MAX	.334 MAX	.499 MIN	.018 MAX	.370 MAX	.199	.039 MAX	.033 MAX	45°
PH7d	.192 .204	.185 MAX	.492 .570	.017	.210 .216	.088 .111			
PH7e	.460 .484	.330 .346	1.299 1.456	.354 .370	.200	.200	.031	.031	45°
PH7f	.188	.185	.551	.015	.212	.100			

49. OUTLINE DRAWINGS

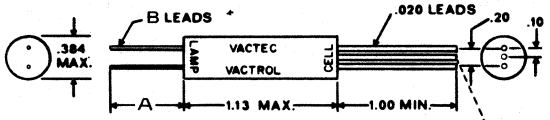
IN DRAWING NUMBER SEQUENCE

PH8



*-LEAD OMITTED FOR PH8a.

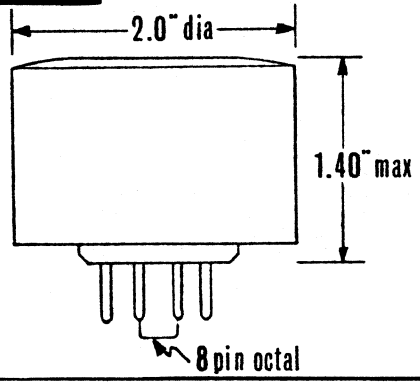
PH9



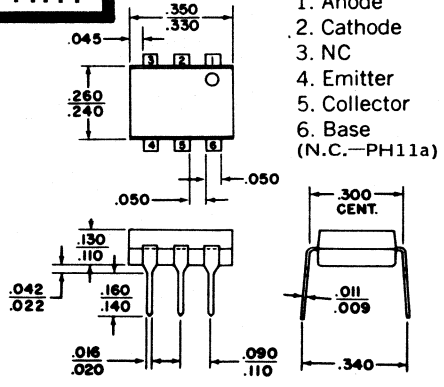
LEAD FOR PH9b and c ONLY.

	A	B	REMARKS
PH9	.380 MIN	.010	5 Leads
PH9a	.750 MIN	.015	5 Leads
PH9b	.380 MIN	.010	6 Leads
PH9c	.750 MIN	.015	6 Leads

PH10



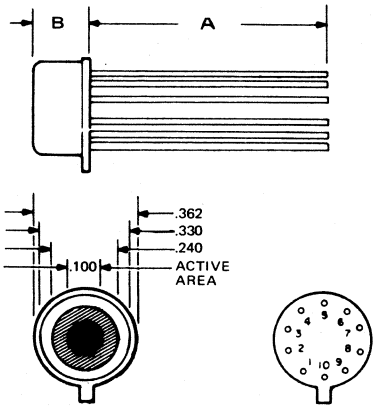
PH11



1. Anode
2. Cathode
3. NC
4. Emitter
5. Collector
6. Base

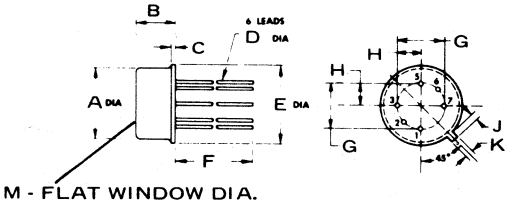
(N.C.—PH11a)

PH12



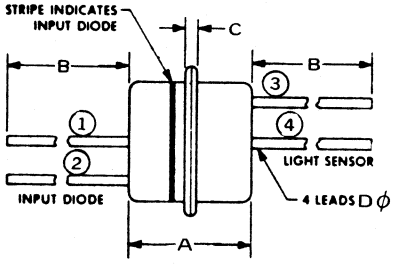
	A	B
PH12	1.496	.240
PH12a	.787	.244

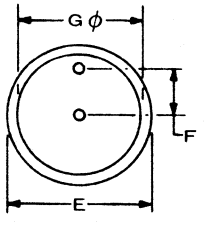
PH13



	A	B	C	D	E	F	G	H	J	K	M
PH13	.305 .335	.155 .185	.040 MAX	.016 .019	.335 .370	.500 MIN	.200	.100	.029 .045	.028 .034	
PH13a		.191		.019	.210	.500 MIN	.100		.040		.125 MIN

PH14





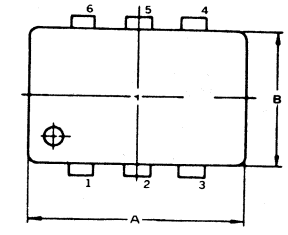
END VIEW TYPICAL OF BOTH ENDS

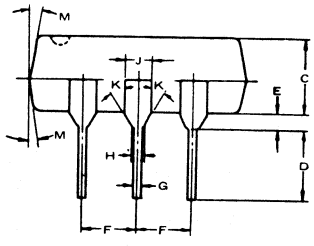
	A	B	C	D	E	F	G	REMARKS	LEAD CODE 1	2	3	4
PH14	.194 .206	1.00 MIN	.013 .019	.016 .019	.187 .220	.045 .055	.161 .171		A	K	E	C
PH14a	.212	.433 MIN	.015	.017	.228	.049	.194	No Stripe	K	A	C	E

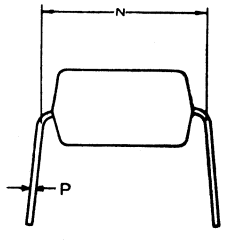
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PH16

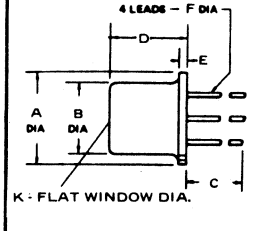


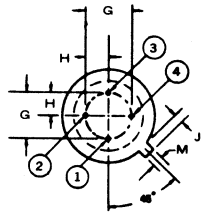




	A	B	C	D	E	F	G	H	J	K	M	N	P
PH16	.330 .370	.240 .260	.180	.125 MIN	.020 MIN	.100	.015 .021	.033 MIN				.300	
PH16a	.366	.232 .271	.118 .157	.118 .157	.015 .039	.099	.017	.027	.047	30°	8°	.280 .319	
PH16b	.319 .350	.244 .255	.153 .169	.087 .106	.035 .047	.099	.014 .020	.029 .037	.044 .055			.307 .324	.007 .011
PH16c	.393 MAX	.256 MAX	.157 MAX	.100 MIN	.020 MIN	.100	.014 .026		.041 .053			.290 .310	.008 .014
PH16d	.334		.183	.130	.025	.100	.020					.300	.011
PH16e	.334 .342	.244 .251	.137 MAX	.122 .141	.019 MIN	.100	.017					.291 .307	.009
PH16f	.350	.250	.125				.018					.300	.010
PH16g	.340	.250	.120	.150	.032	.015 .021	.100		.050			.300	.008 .012
PH16h	.330 .370	.242	.175 MAX	.125 MIN	.020 .060	.100	.016 .020		.060			.300	.008 .014
PH16j	.345 .365	.245 .265	.150	.150	.025	.090 .110	.018 .022					.300	.010 .014
PH16k	.364		.138	.098 MIN	.035	.100	.020	.047				.299	
PH16m	.280	.240	.151	.106	.031	.100	.019		.047			.300	.009
PH16n	.280	.240	.143	.106	.031	.100	.019		.047			.300	.009
PH16p	.344 .383	.236 .275	.118 .157	.098 MIN	.016 .055	.100	.019		.047			.300	
PH16r	.350	.250	.180 MAX	.125 MIN	.020 MIN	.100 TYP	.015 .021	.033 MIN				.300 TYP	.008 .012

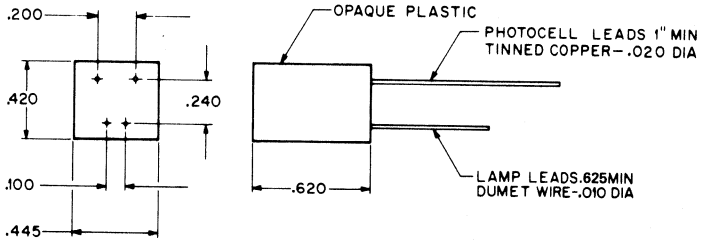
PH17



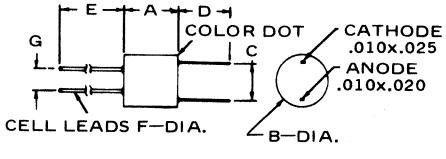


	A	B	C	D	E	F	G	H	J	K	M
PH17	.209 .230	.178 .195	.500 MIN	.170 .210	.030 MAX	.016 .019	.100	.050	.028 .048		.036 .046
PH17a	.210		.500 MIN	.191		.019 MAX	.100			.125	
PH17b	.209	.189	.500	.191		.019 MAX				.136	
PH17c	.210	.189	.500	.191		.019 MAX	.100			.154	
PH17d	.209 .230	.178 .195	.500 MIN	.170 .210		.016 .019	.100		.028 .048		.036 .046
PH17e	.228 MAX	.189 MAX	.500 MIN	.216 MAX		.019 MAX	.100		.046 MAX		.045 MAX
PH17f	.335 .370	.305 .335	.500 MIN	.240 .259		.016 .020	.200 PCD		.029 .044	.240	.027 .033
PH17g	.370 MAX	.335 MAX	1.50 MIN	.260 MAX		.017	.190 .210		.031		.031
PH17h	.370 MAX	.370 MAX	1.50 MIN	.650 MAX		.017	.200		.031		.031
PH17j	.334 .370	.314 .324	.500 MIN	.240 .259		.016 .018	.189 .209		.029 .044	.232	.027 .035

PH18

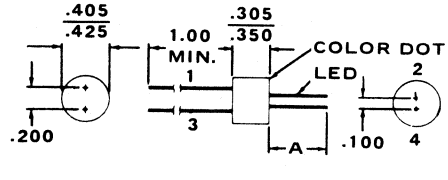


PH19



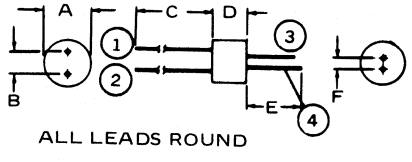
	A	B	C	D	E	F	G
PH19	.215 .260	.250	.130	.220 MIN	1.00 MIN	.016 .020	.100
PH19a	.750	.500 REF	.300 REF	1.00 NOM	.650 NOM	.010 REF	.150

PH20



	A	1	2	3	4
PH20	.500 MIN	.017Ø .021	.017Ø .021	.017Ø .021	.017Ø .021
PH20a	.250 MIN	.020Ø	.010 x.025	.020Ø	.010 x.025

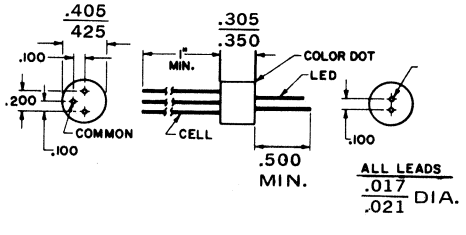
PH21



ALL LEADS ROUND

	A	B	C	D	E	F	LEADS
PH21	.405 .425	.200	1.000 MIN	.305 .350	.500 MIN	.100	.017 .021
PH21a	.310	.100	.500 MIN	.510 MAX	.500 MIN	.100	
PH21b	.310	.100	.500 MIN	.215 .245	.500 MIN	.100	.016 .020

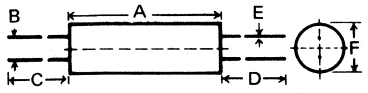
PH22



49. OUTLINE DRAWINGS

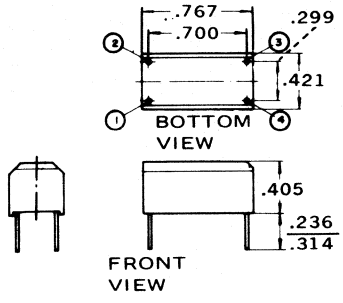
IN DRAWING NUMBER SEQUENCE

PH23

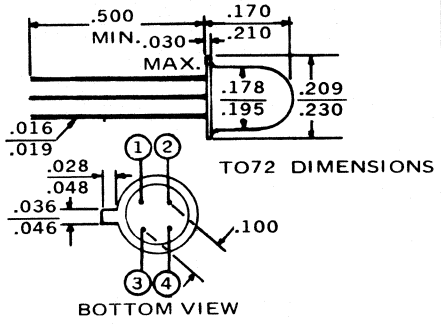


	A	B	C	D	E	F
PH23	1.095 1.155	.190 .210	.970 1.030	.970 1.030	.019 REF	.405 .425
PH23a	.375	.100 TYP	1.500 MIN	1.500 MIN	.016 .019	.330
PH23b	4.120	.100 TYP	1.500 MIN	1.500 MIN	.016 .019	.435
PH23c	.650 .850		1.300 MIN	1.300 MIN	.009 .011	.125 .129
PH23d	.618 .632	.182 .192	.750 NOM	1.50 NOM	.019 °	.316 .323
PH23e	.265 TYP	.150 TYP	1.00 TYP	.220 MIN	.010x .020	.235 .280
PH23f	.511	.118				.275

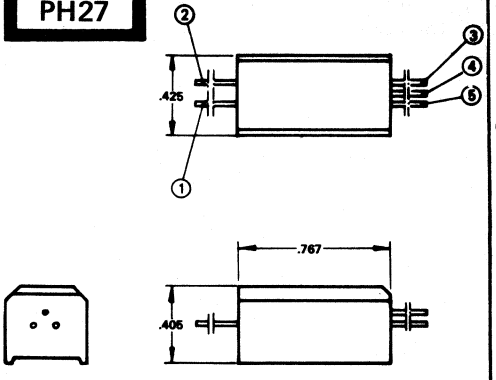
PH25



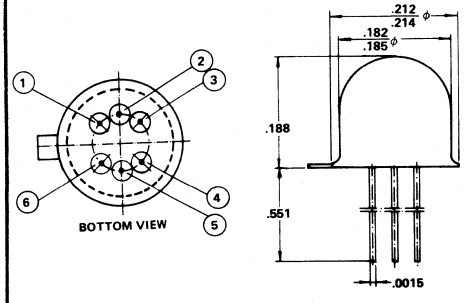
PH26



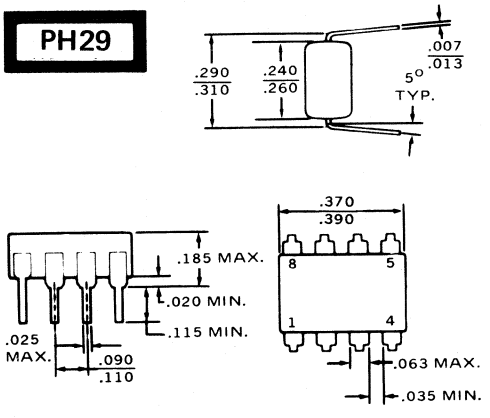
PH27



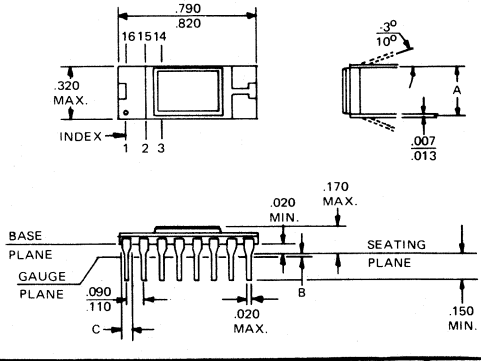
PH28



PH29

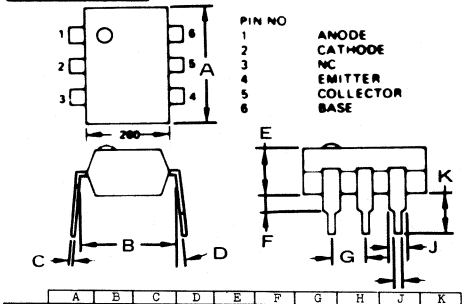


PH30



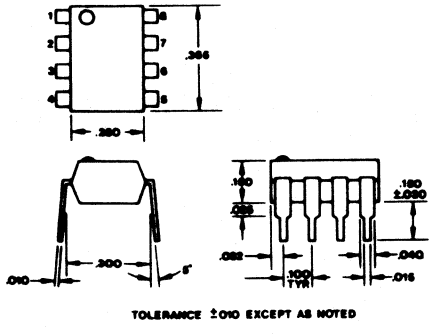
	A	B	C
PH30	.290 .310		
PH30a	.277 .303	.000 .030	.055 MAX

PH31

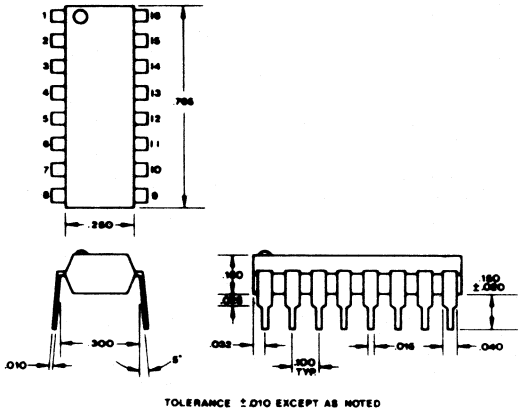


	A	B	C	D	E	F	G	H	J	K
PH31	.355 .375	.300	.008 .012	5°	.135 .180	.010 .030	.100	.013 .019	.035 .045	.110 .130
PH31a	.318 .334	.291 .307			.137 MAX	.009 MIN	.100	.009 .017		.070 MIN

PH32



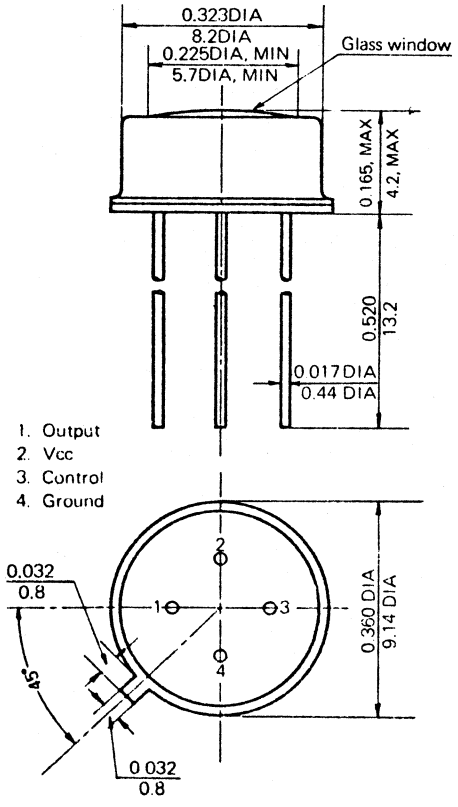
PH33



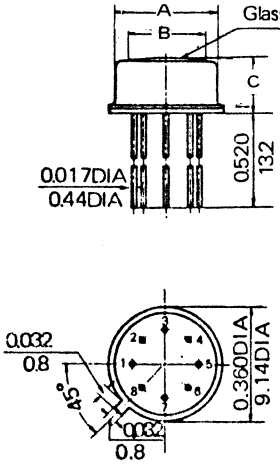
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PH34

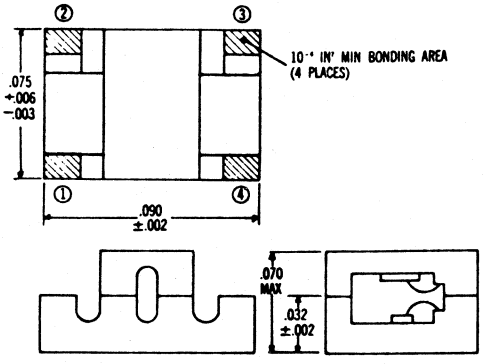


PH35



	A	B	C
PH35	.323	.225	.166
PH35a	.330		.185

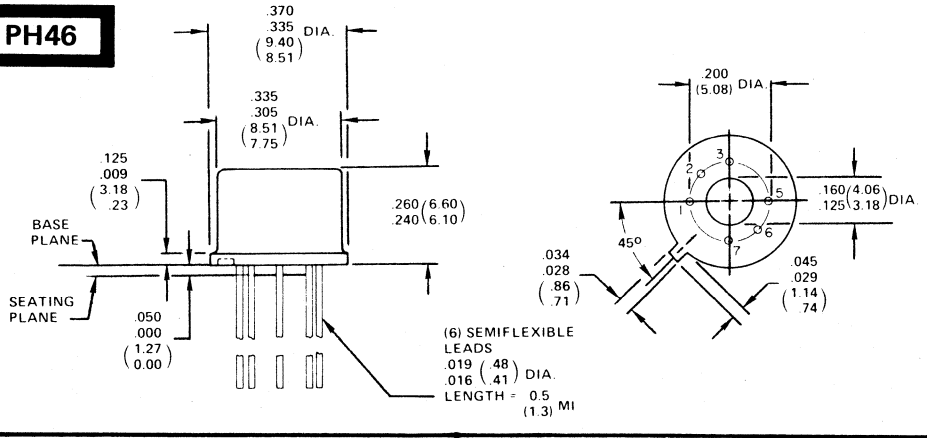
PH38



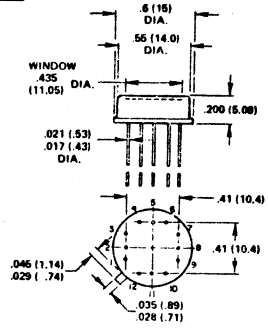
PH39

	COUPLER SERIES	D	H	L*
PH39	MCL	.360		.870
	MCN	.360		1.140
	MCD	.260	.510	
	MTL	.360	.470	
	MTD	.360	.470	
	*AXIAL PACKAGE			

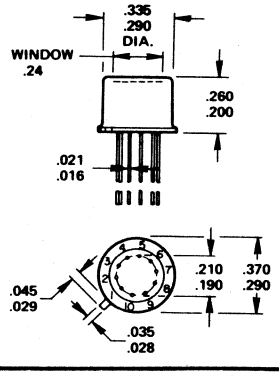
PH46



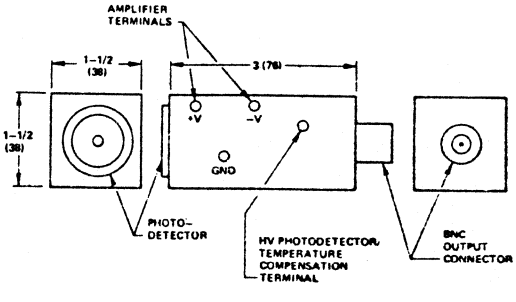
PH47



PH48



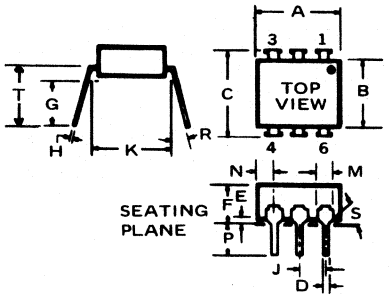
PH49



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

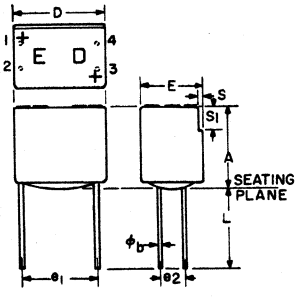
PH50



	A	B	C	D	E	F	G	H	J	K	M	N	P	R	S	T
PH50	.330 .385	.260 .280	.325 MAX	.015 .021	.020 MIN	.160 MAX	.100 MIN	.008 .015	.090 .110	.290 .310	.050 .070	.065 .090		0° 15°	45° REF	
PH50a	.330 .385	.260 .280	.350 MAX	.015 .020	.020 MIN	.200 MAX	.120 MIN	.008 .012	.090 .110	.300	.050 .070	.065 .095		0° 15°	45° REF	
PH50b	.330 .350	.225 .280	.340 MAX	.016 .020				.008 .012	.090 .110	.300	.040 .070	.085	.100 MIN			
PH50c	.350			.018				.010		.300	.050			5°		.225
PH50d	.330 .350	.225 .280	.340 MAX	.016 .020	.015 MIN	.200		.008 .012	.090 .110	.300 REF	.040 .070	.085 MAX	.100 MIN	15°		

NOTES:
1. LEADS MISSING FROM THEIR DESIGNATED POSITIONS SHALL BE COUNTED WHEN NUMBERING LEADS FOR SPECIAL APPLICATIONS.
2. INSTALLED POSITION OF LEAD CENTERS.
3. OVERALL INSTALLED DIMENSION.
4. BASED ON A .035" DIA. MOUNTING HOLE.
5. APPLIES TO LEADS PRIOR TO INSTALLATION

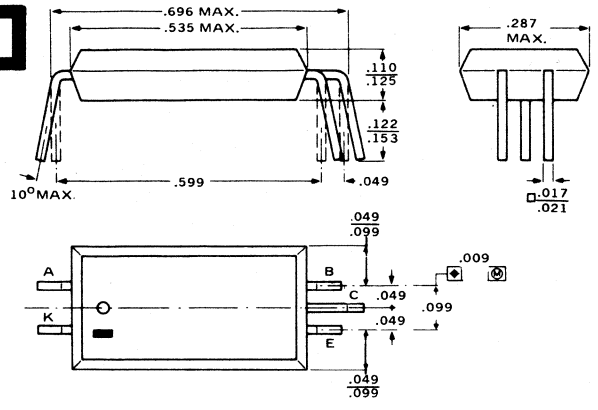
PH51



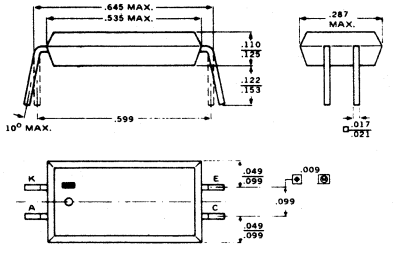
SYMBOL	INCHES MIN.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS MAX.	NOTES
A		.350		8.89	
φb	.016	.019	.407	.482	1
D		.375		9.52	
θ1	.285	.315	7.24	8.00	
θ2	.090	.110	2.29	2.79	
E		.250		6.35	
L	.300		7.62		1
S	.010	.020	.26	.50	
S1	.085	.105	2.16	2.66	

NOTES:
1. FOUR LEADS. LEAD DIAMETER CONTROLLED BETWEEN .050" (1.27MM) FROM THE SEATING PLANE AND THE END OF THE LEADS.

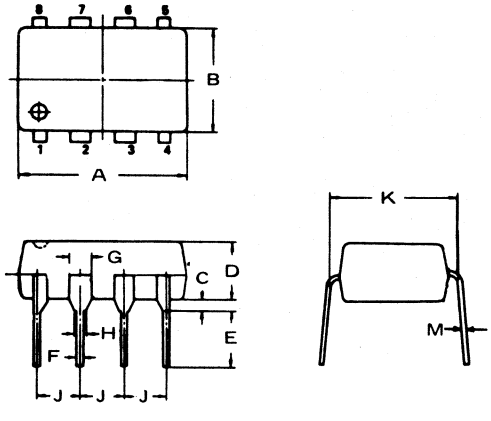
PH54



PH55

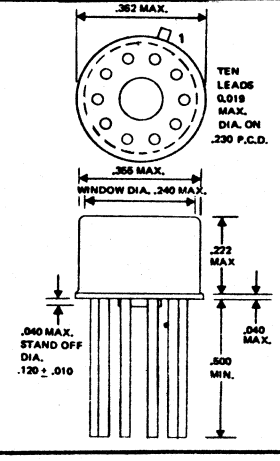


PH56



	A	B	C	D	E	F	G	H	J	K	M
PH56	.366 .405	.232 .271	.015 .039	.118 .157	.118 .157	.017	.041 .053		.099	.280 .319	
PH56a	.393 MAX	.256 MAX	.020 MIN	.157 MAX	.100 MIN	.014 .026	.041 .053		.100	.290 .310	.008 .014
PH56b	.380	.240	.031	.143	.106	.019	.047		.100	.300	.009
PH56c	.400 MAX	.240 .260	.020 MIN	.180 MAX	.125 MIN	.015 .021	.070 MAX	.033 MIN	.100 TYP	.300 TYP	.008 .014

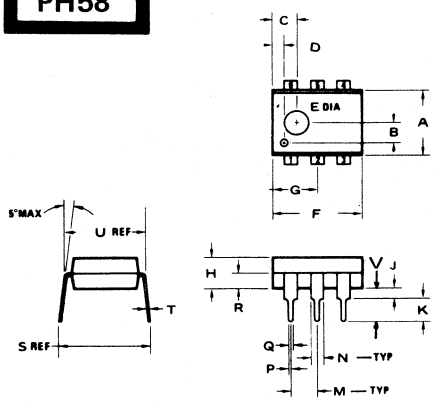
PH57



49. OUTLINE DRAWINGS

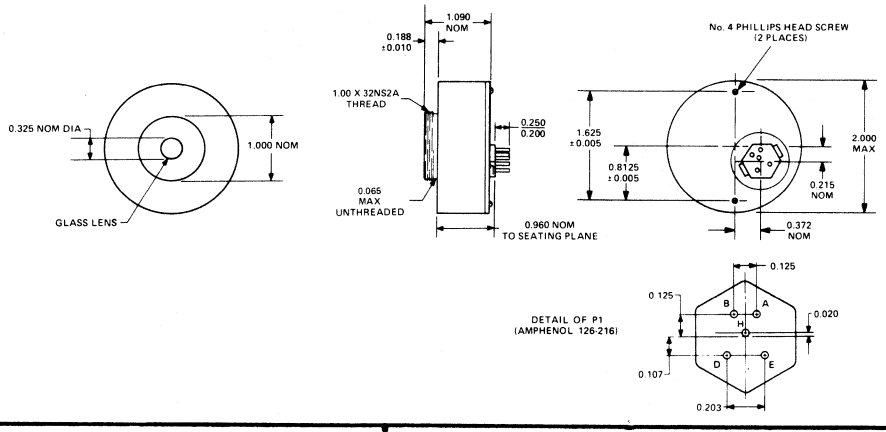
IN DRAWING NUMBER SEQUENCE

PH58

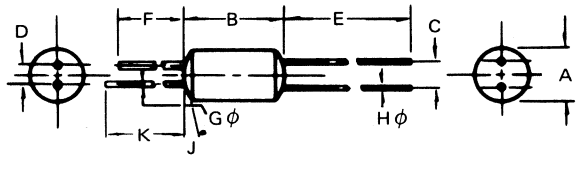


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	U	V
PH58	.250	.078	.090	.045	.092	.340	.170	.120	.040 MAX	.090	.100	.050	.009	.016 .020	.060	.345 MAX	.009 .011	.302	
PH58a	.240 .260					.330 .370		.180	.020 MIN	.125 MIN	.100	.033 MIN		.015 .021		.300 .350	.008 .014	.300	
PH58b						.350		.125				.060		.018			.010	.300	.225
PH58c	.245 .255					.345 .355	.172 .177	.180	.020 MIN	.125 MIN	.100 TYP			.015 .021		.300 .350	.008 .012	.300 TYP	.145 MIN
PH58d	.250			.045		.340	.170	.120	.032	.150	.100	.050		.015 .021		.340 TYP	.008 .012	.300 TYP	.182
PH58e	.250					.350		.135				.050		.018			.010	.300	

PH62

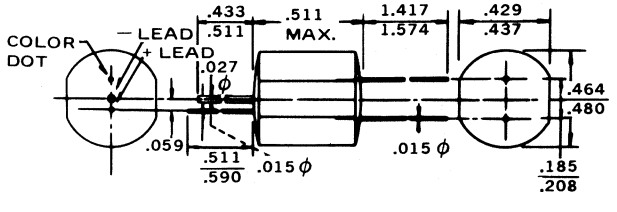


PH64

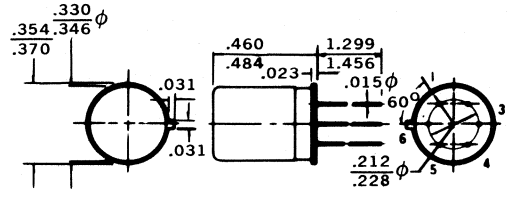


	A	B	C	D	E	F	G	H	J	K	DOT
PH64	.259 .275	.551 MAX	.125 .141	.092 .107	1.535 1.614	.275 .354	.017	.011			
PH64a	.311 .321	1.173 1.203	.195 .205	.182 .192	1.00	1.00	.027 .029	.024 .026	.010 .020	.393 .472	CELL SIDE

PH65

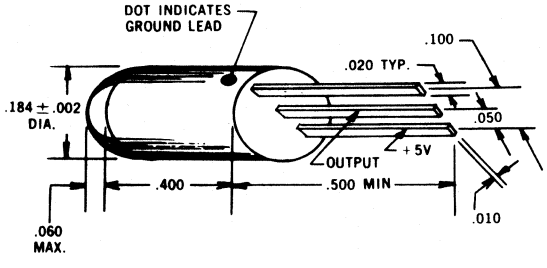


PH66



PH67

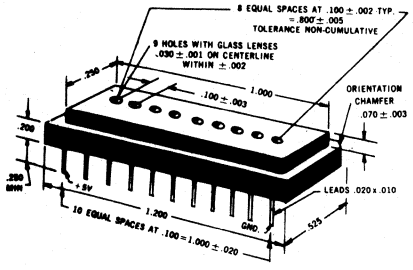
LENS MATERIAL: MOLDED CLEAR EPOXY



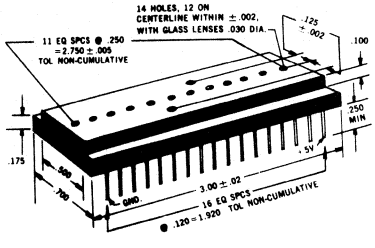
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

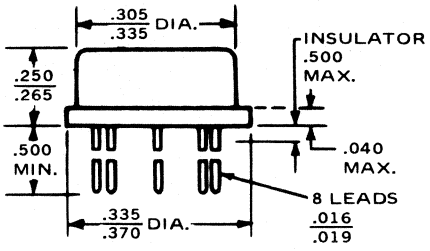
PH68



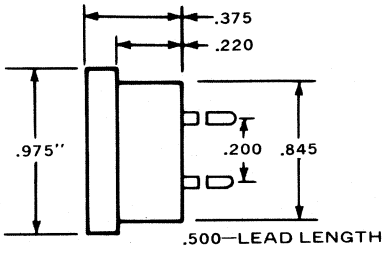
PH69



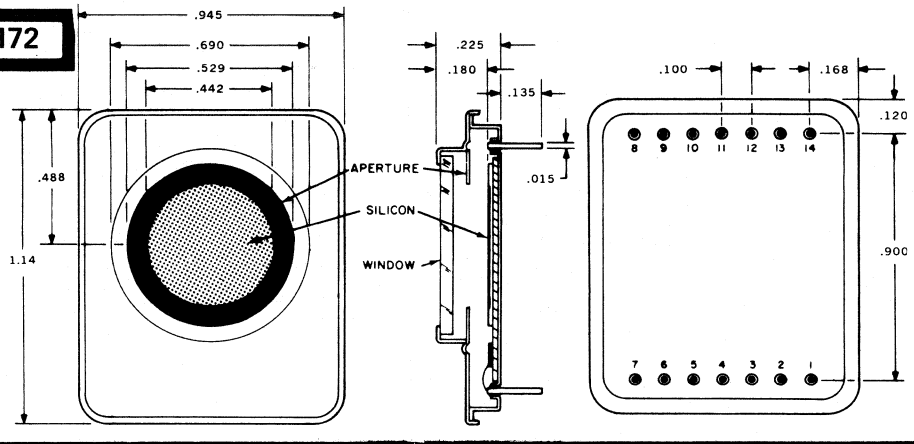
PH70



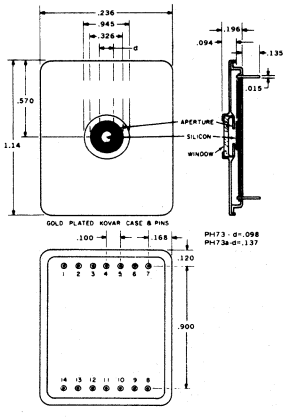
PH71



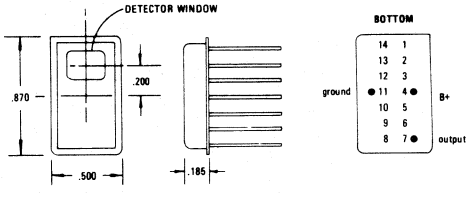
PH72



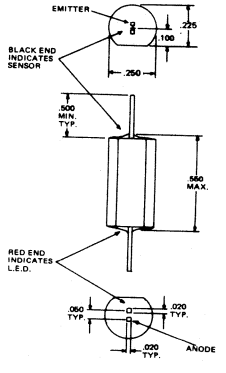
PH73



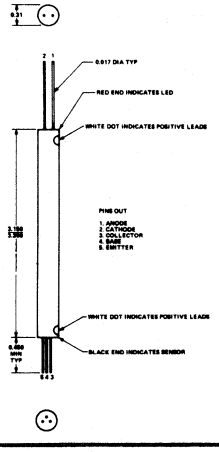
PH76



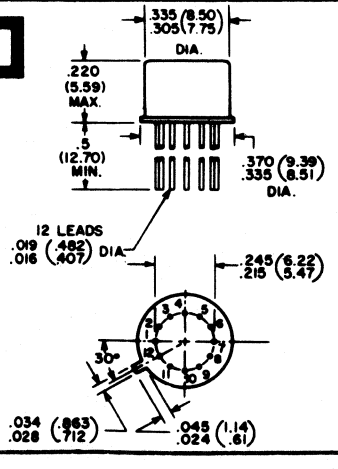
PH81



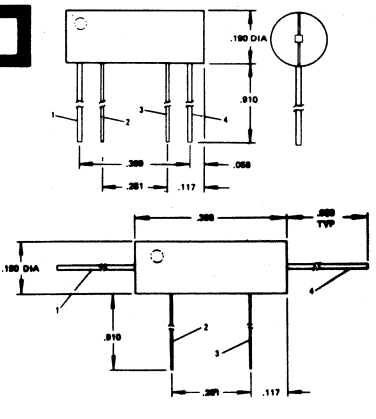
PH82



PH83



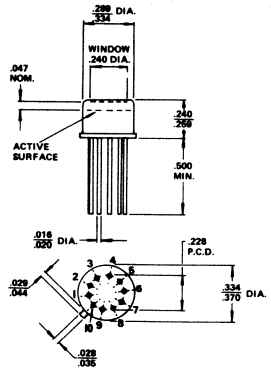
PH84



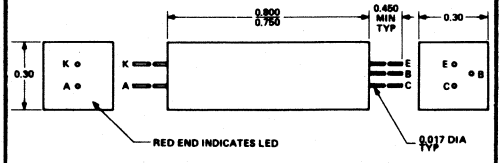
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

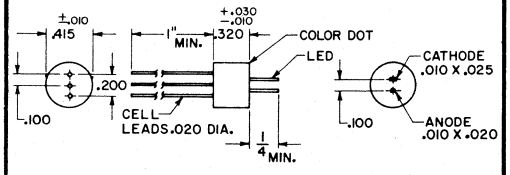
PH85



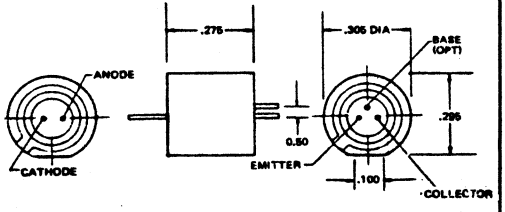
PH86



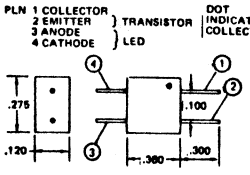
PH89



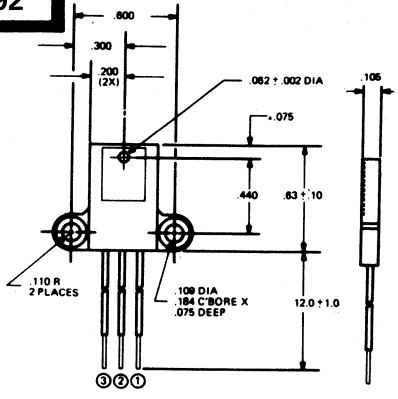
PH90



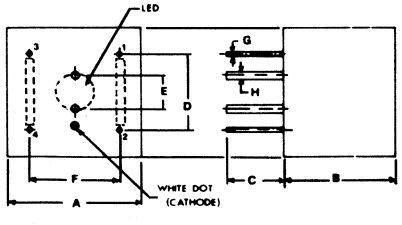
PH91



PH92



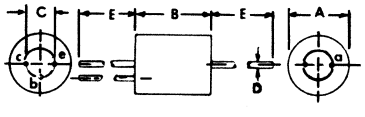
PH93



SINGLE CELL — LEADS 1 & 2
DUAL CELL — LEADS 1 & 2, 3 & 4

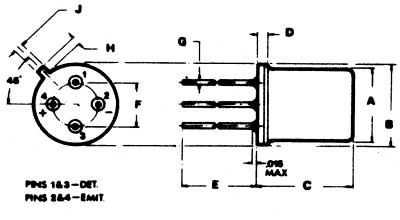
Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max.
A	.743 Sq.	.757 Sq.	18.95 Sq.	19.65 Sq.
B	.618	.632	15.80	16.55
C	.31 Nominal		8 Nominal	
D	.418	.432	10.80	11.00
E	.178	.192	4.52	4.88
F	.493	.507	12.45	12.85
G	.024	.026	.61	.64
H	.0385	.0415	.99	1.04

PH94



Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max
A	.240	.260	6.096	6.604
B	.300	.330	7.62	8.38
C	.090	.110	2.286	2.794
D	.016	.019	.041	.048
E	.36	.39	9.14	9.91

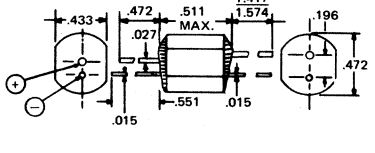
PH95



PINS 1&3 — DET.
PINS 2&4 — EMIT.

Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max.
A	.320	.330	8.12	8.39
B	.356	.364	9.05	9.25
C	.386	.406	9.81	10.20
D	.035	.045	.89	1.10
E	1.5	1.6	38.1	40.4
F	.197	.203	5.04	5.15
G	.016	.019	.40	.48
H	.037	.043	.94	1.10
J	.028	.034	.72	.86

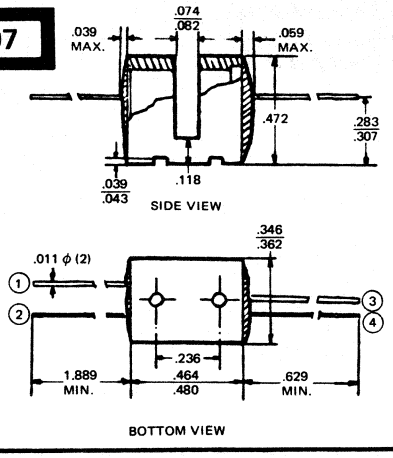
PH96



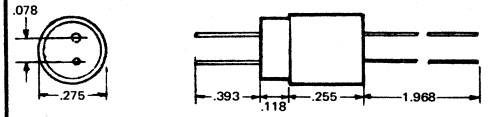
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

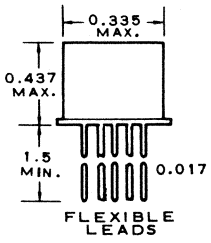
PH97

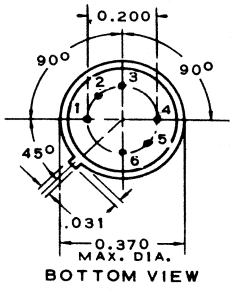


PH98

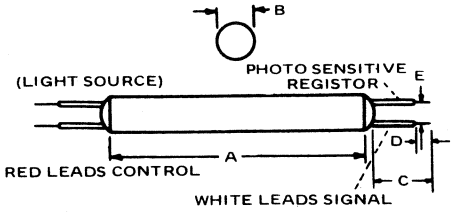


PH99



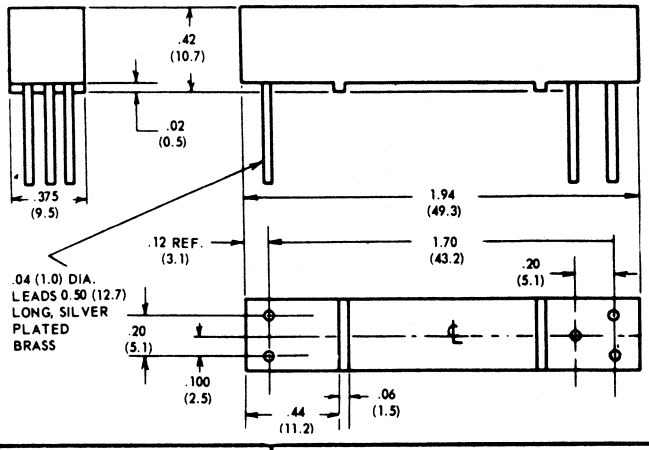


PH100



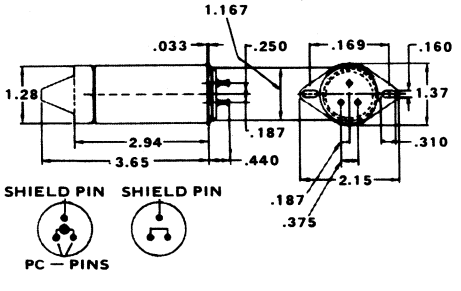
	A	B	C	D	E	REMARKS
PH100	2.25 2.50	.280	.300	.350 .385		RED CONT. WHITE SIGNAL
PH100a	2.715	.610 .640	.300 MIN	.350 .385	.200 .320	RED CONT. WHITE SIGNAL FLYING LEADS-HV

PH101

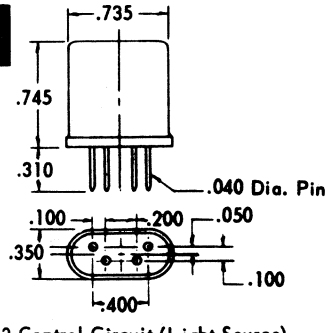


PH102

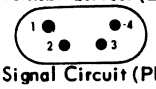
High Voltage — Epoxy Basing
Red Base — Control Circuit
Black Base — Signal Circuit



PH103

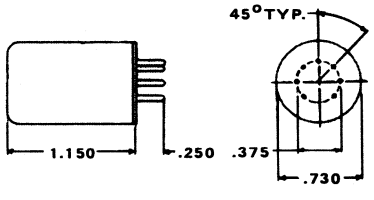


Pins 1 & 2 Control Circuit (Light Source)



Pins 3 & 4 Signal Circuit (Photoresistor)

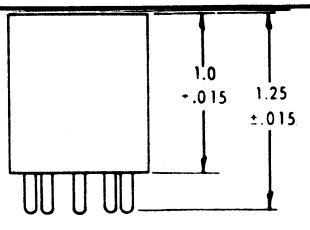
PH104



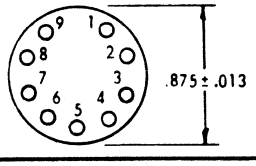
TERMINAL CONNECTIONS

PIN 1 —	LAMP CONTROL	PIN 4 —	NC
PIN 2 —	PC#1	PIN 5 —	LAMP CONTROL
PIN 3 —	PC#1	PIN 6 —	PC#2
		PIN 7 —	PC#2

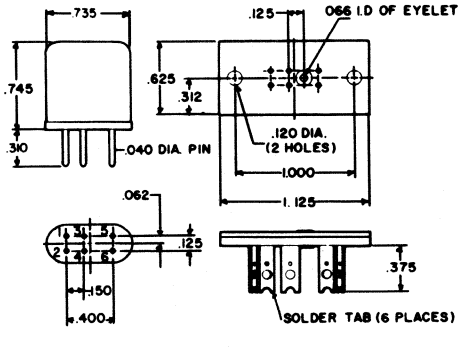
PH105



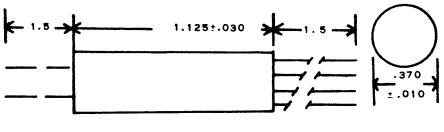
BOTTOM VIEW



PH106



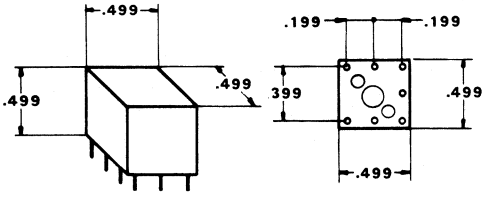
PH107



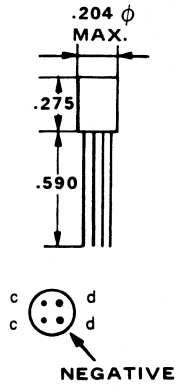
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

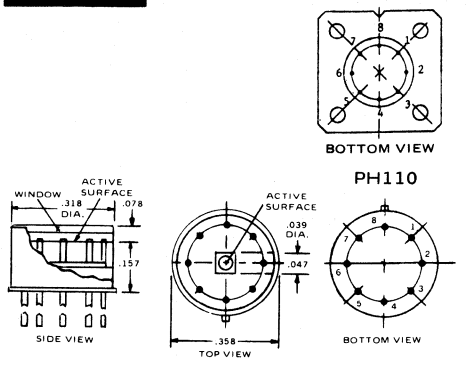
PH108



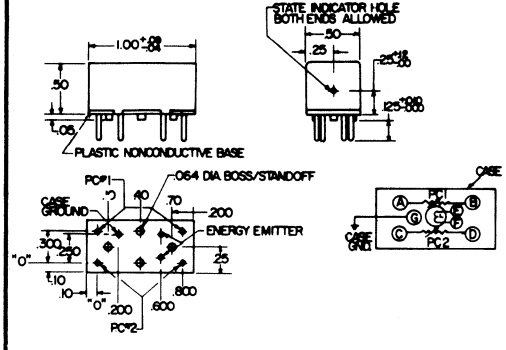
PH109



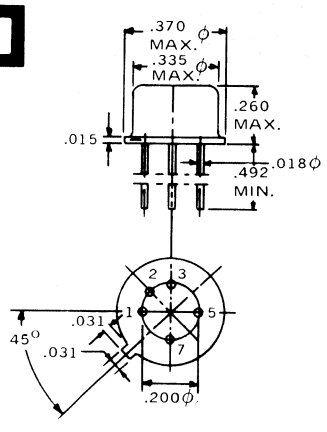
PH110



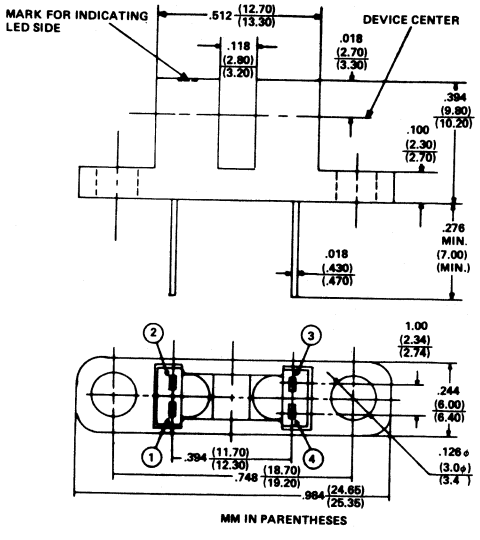
PH111



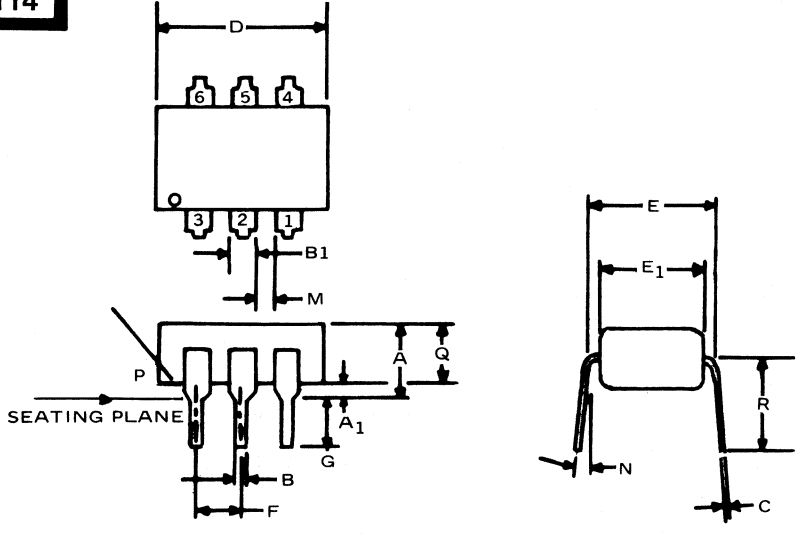
PH112



PH113

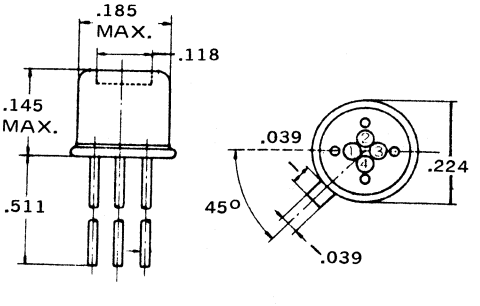


PH114



	A	A1	B	B1	C	D	E	E1	F	G	M	N	P	Q	R
PH114	.185 MAX	.020 MIN	.025 MAX	.063 MAX	.007 .013	.370 .390	.290 .310	.240 .260	.090 .110	.105 MIN	.035 MIN	15° MAX	50° TYP		
PH114a			.018	.050	.010	.350	.300	.250				5°		.135	.225
PH114b	.200 MAX	.015 MIN	.016 .020	.040 .070	.008 .012	.330 .350	.300 REF	.225 .280	.090 .110	.100 MIN		15° MAX	NA		

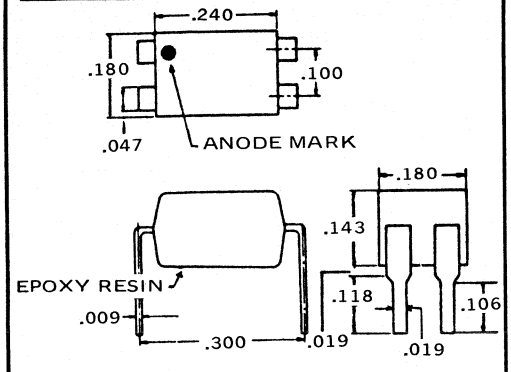
PH115



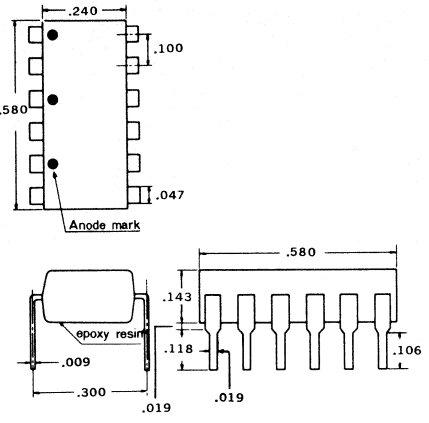
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

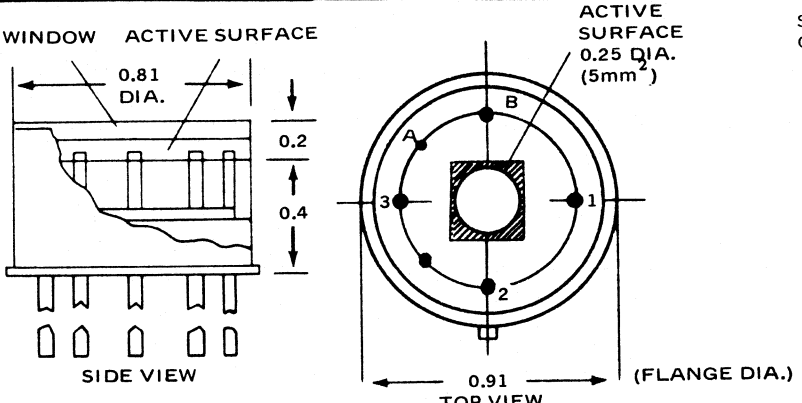
PH116



PH117



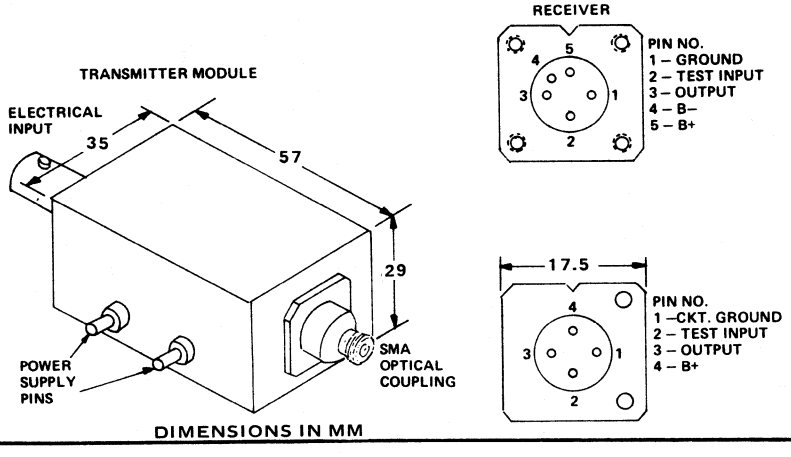
PH118



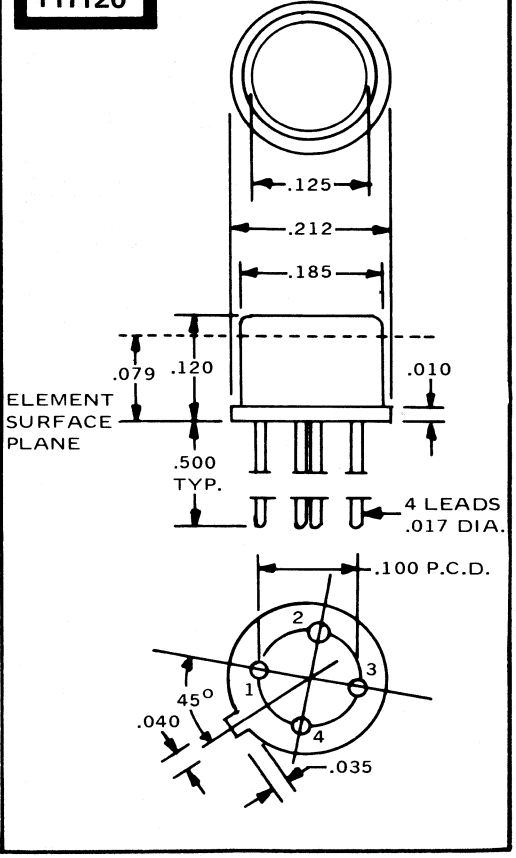
PH118, PH118b: A ABSENT, B = PIN 4
PH118a, PH118c: A = PIN 4; B = PIN 5

PH118,a

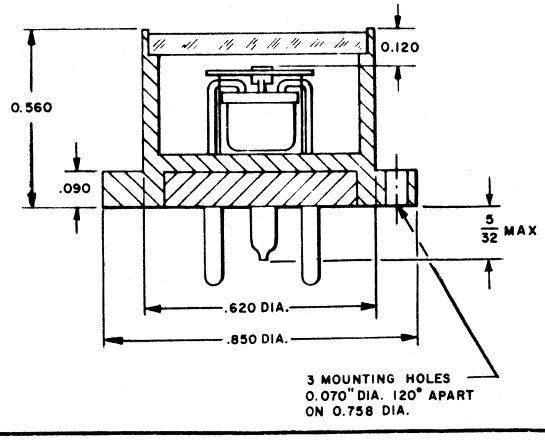
PH119



PH120



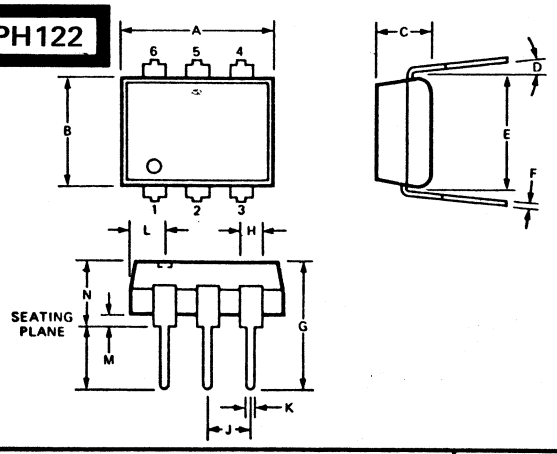
PH121



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

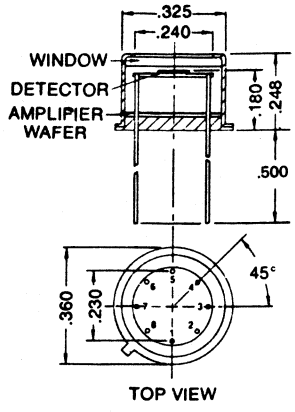
PH122



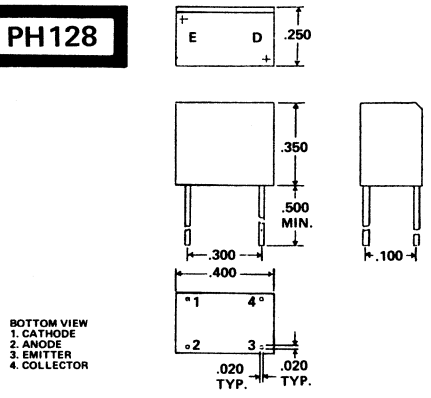
SYMBOL	INCHES MAX.	mm MAX.	NOTES
A	.365	9.27	
B	.270	6.73	
C	.130	3.18	
D	15°	15°	
E	.300 Ref.	7.62 Ref.	1
F	.014	0.36	
G	.325	8.26	
H	.070	1.78	
J	.110	2.79	
K	.022	0.56	
L	.085	2.16	2
M			3
N	.175	4.45	4
P			3

NOTES
1. INSTALLED POSITION OF LEAD CENTERS
2. FOUR PLACES
3. OVERALL INSTALLED POSITION
4. THESE MEASUREMENTS ARE MADE FROM THE SEATING PLANE

PH123

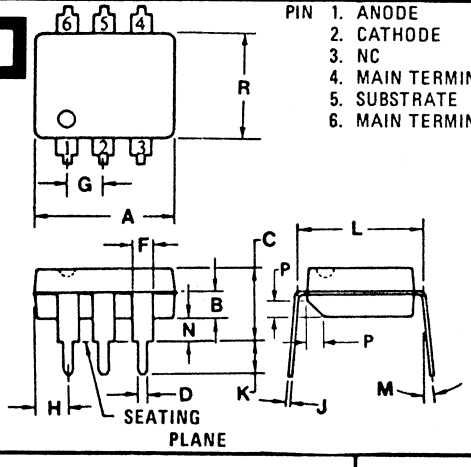


PH128



BOTTOM VIEW
1. CATHODE
2. ANODE
3. EMITTER
4. COLLECTOR

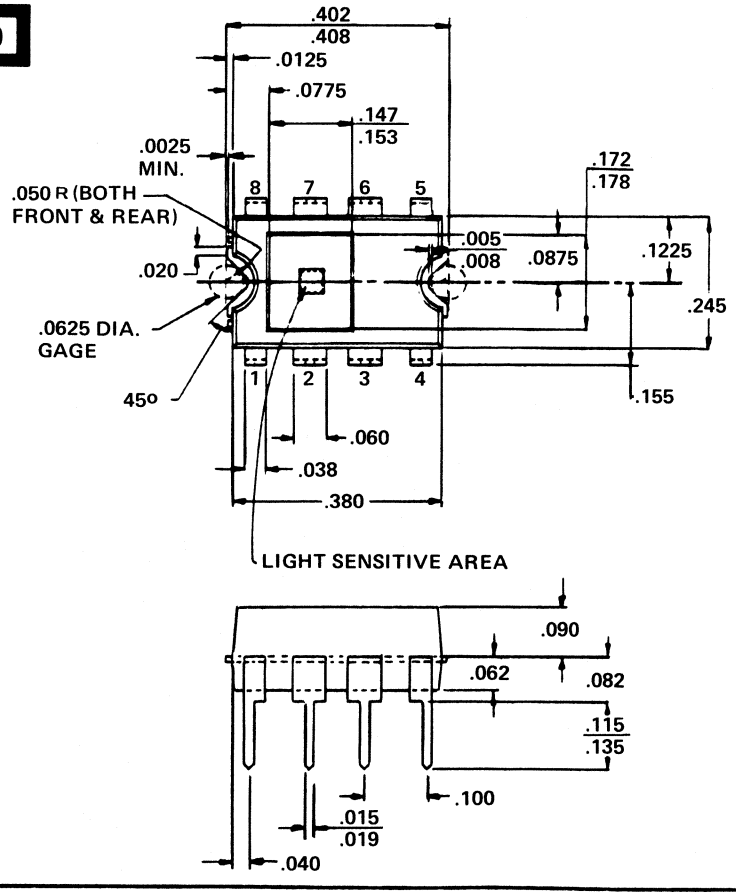
PH129



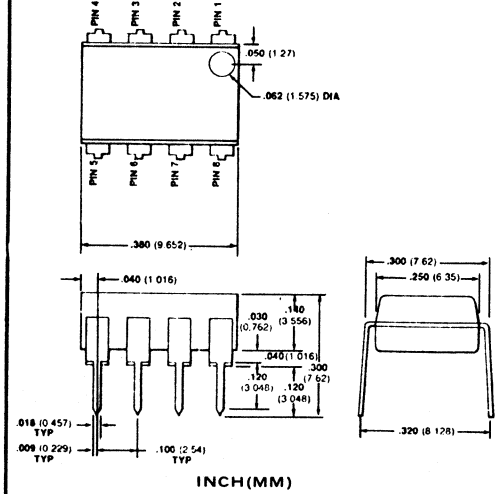
PIN
1. ANODE
2. CATHODE
3. NC
4. MAIN TERMINAL
5. SUBSTRATE
6. MAIN TERMINAL

DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	8.13	8.89	0.320	0.350
B	1.27	2.03	0.050	0.080
C	2.92	5.08	0.115	0.200
D	0.41	0.51	0.016	0.020
F	1.02	1.78	0.040	0.070
G	2.54	BSC	0.100	BSC
H	1.02	2.16	0.040	0.085
J	0.20	0.30	0.008	0.012
K	2.54	3.81	0.100	0.150
L	7.62	BSC	0.300	BSC
M	0°	15°	0°	15°
N	0.38	2.54	0.015	0.100
P	0.81	0.97	0.032	0.038
R	6.10	6.60	0.240	0.260

PH130



PH131

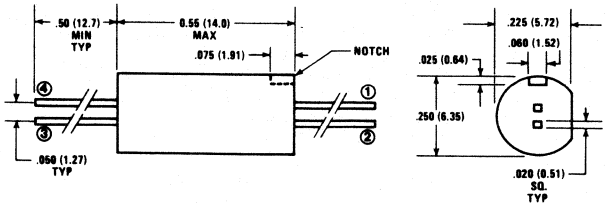


INCH (MM)

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PH135



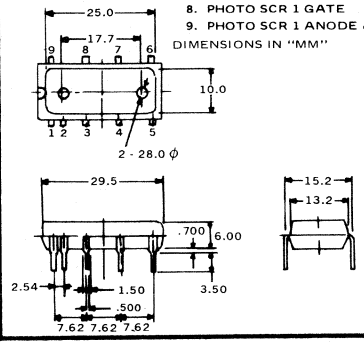
PIN 1 INDICATED BY NOTCH

DIMENSIONS ARE IN INCHES (MILLIMETERS)
0.XX ± 0.01 0.X ± 0.25
0.XXX ± 0.005 0.XX ± 0.13

PH136

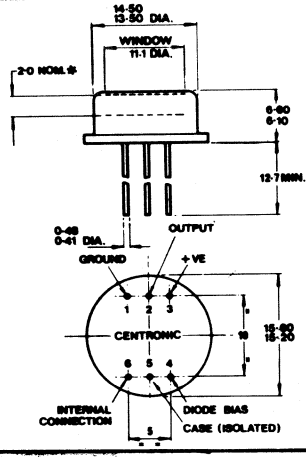
1. LED_1 ANODE
2. LED_1 CATHODE & LED_2 ANODE
3. LED_2 CATHODE
4. NO CONNECTION
5. NO CONNECTION
6. PHOTO SCR 1 CATHODE & SCR 2 ANODE
7. PHOTO SCR 2 GATE
8. PHOTO SCR 1 GATE
9. PHOTO SCR 1 ANODE & SCR 2 CATHODE

DIMENSIONS IN "MM"

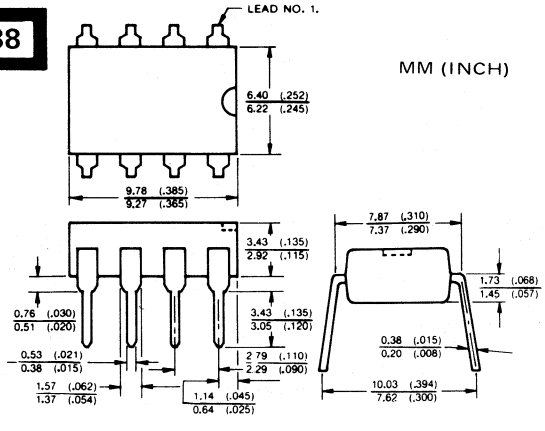


PH137

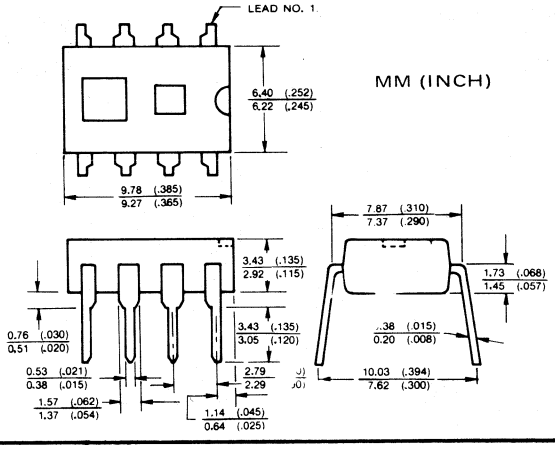
(all dimensions in mm) Dimension* refers to distance between window and active surface.



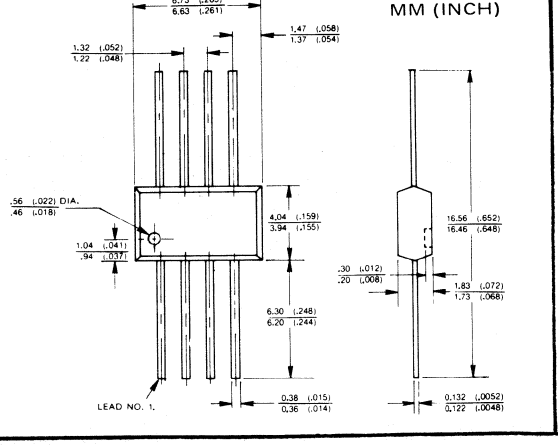
PH138



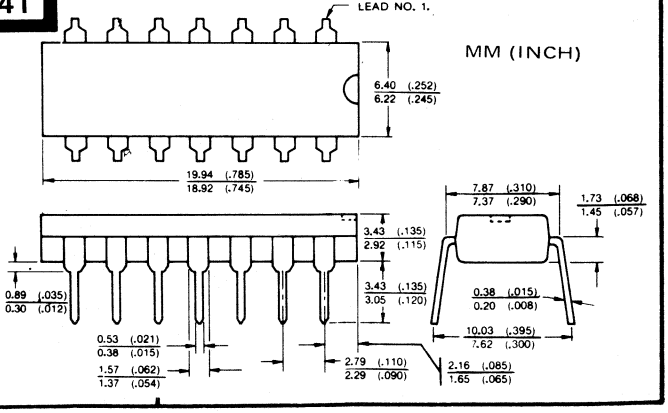
PH139



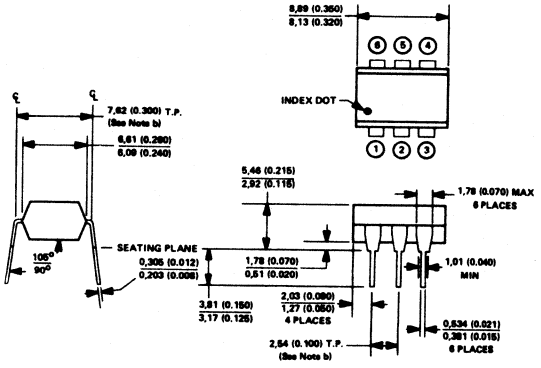
PH140



PH141



PH142



NOTES:

a. All linear dimensions are in millimeters, and parenthetically in inches.

b. Leads are within 0,13 mm (0.005 inch) radius of true position (T.P.) with maximum material condition and unit installed.

c. Pin 1 identified by index dot.

d. Terminal connections:

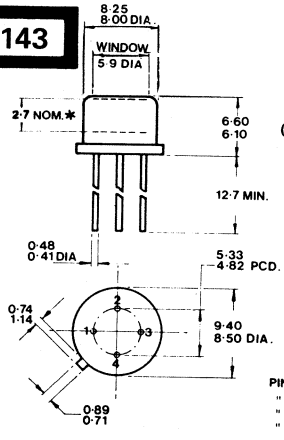
1. Anode
2. Cathode
3. No internal connection

} Infrared-emitting diode

4. Emitter
5. Collector
6. Base PH142a N.C.

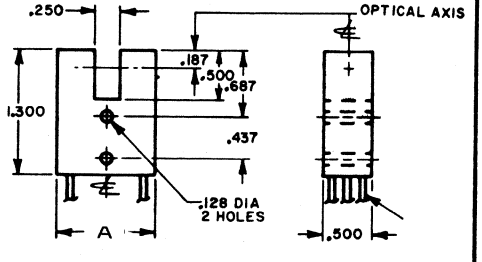
} Phototransistor

PH143



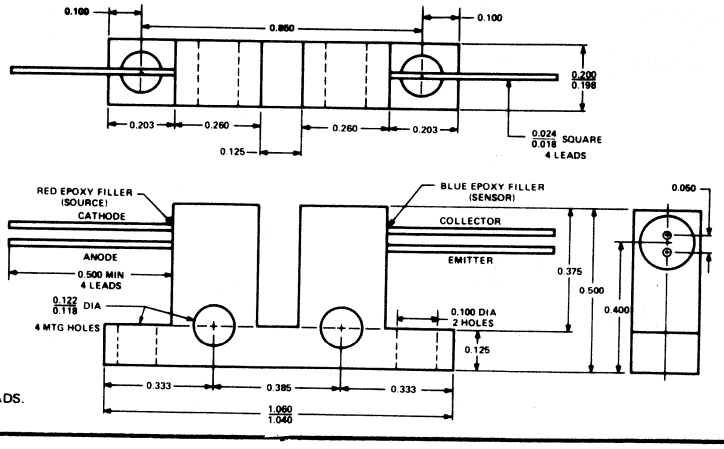
(all dimensions in mm) Dimension* refers to distance between window and active surface.

PS1



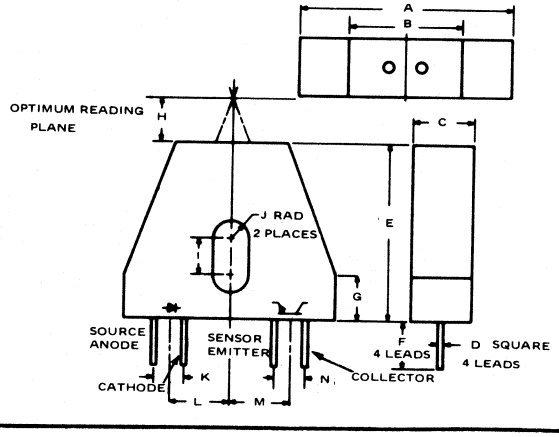
	A
PS1	1.000
PS1a	.950

PS2



PS2a – HAS ROUND LEADS.

PS3

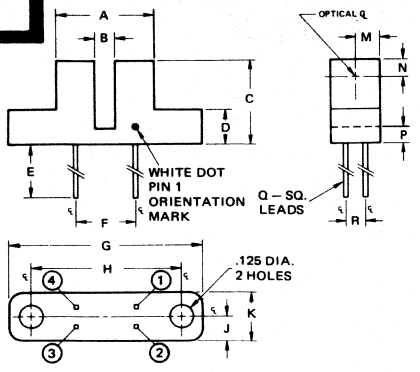


	A	B	C	D	E	F	G	H	I	J	K	L	M	N
PS3	.690 .710	.375	.200	.018 .024	.590 .610	.150 MIN	.140 .160	.100 .200	.125	.060 .064	.090 .110	.200	.200	.090 .110
PS3a	.700	.375	.200	.020	.600	.150 MIN	.150	.150	.125	.062	.100	.200	.200	.100

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

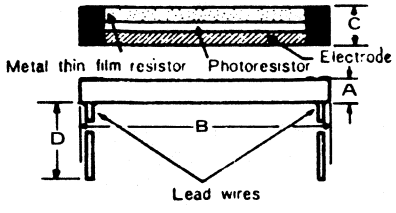
PS4



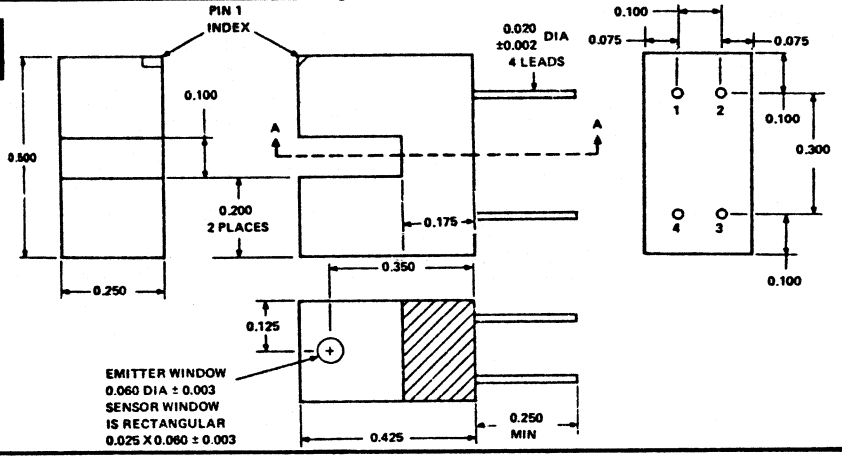
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
PS4	.500	.100	.425	.175	.500 MIN	.285 .315	1.000	.745 .755	.125	.250	.125	.075	.175	.017 .023	.100
PS4a	.480 .490	.120 .130	.420 .430	.095 .105	.295 .305	.215 .225	.955 .985	.745 .755	.120 NOM	.245 .255	.120 NOM	.110 NOM	.075 .085	.015 .025	.100 NOM
PS4b		.125	.500	.195	1.50	.300	1.05				.150				
PS4c	.496	.120 .139	.401	.106	.299	.216	.968	.751		.244	.120 .139				.100
PS4d		.098	.394	.138	.394	.295	.964	.748	.122	.244					.102
PS4e	.512	.118	.394	.098	.280 MIN	.280	.984	.748		.244		.094	.098	.018	.100

PS5

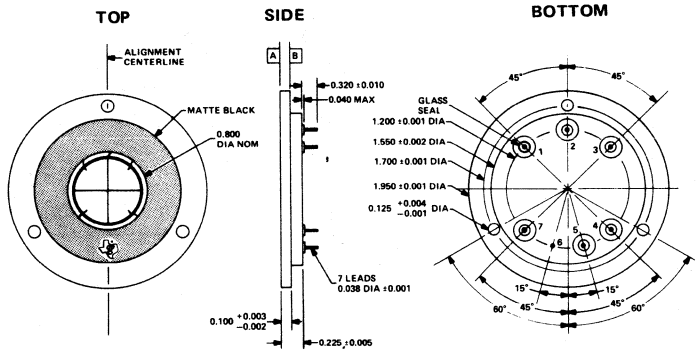
	A	B	C	D
PS5	.090	.980	.140	1.29
PS5a	.120	1.96	.390	1.29
PS5b	.120	3.92	.390	1.29



PS6



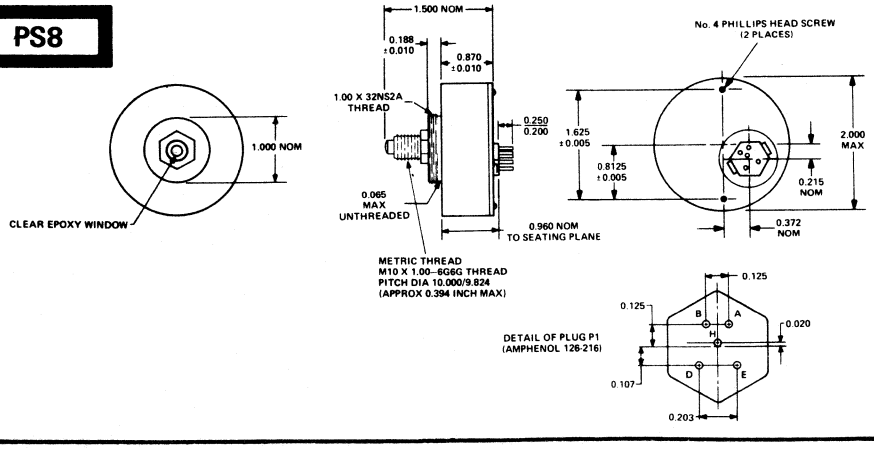
PS7



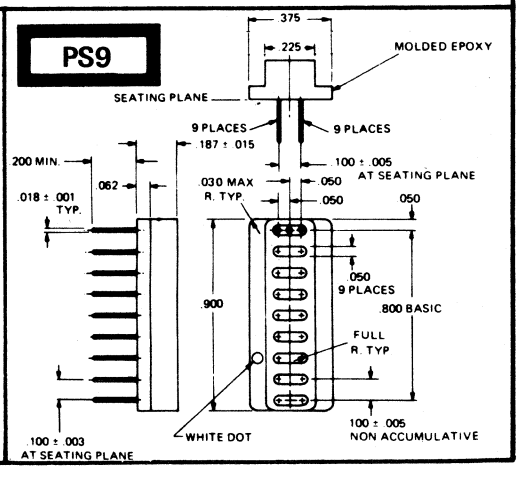
1 QUADRANT I CATHODE
2 GUARD RING CATHODE
3 QUADRANT II CATHODE
4 QUADRANT III CATHODE
5 COMMON ANODE
6 CASE
7 QUADRANT IV CATHODE

The active elements are electrically insulated from the case.

PS8



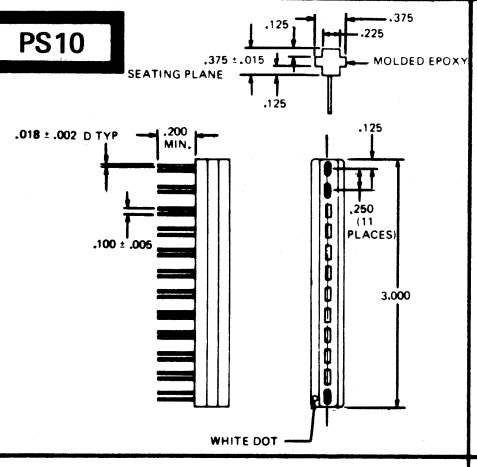
PS9



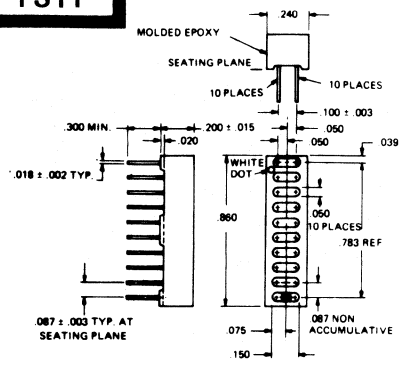
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

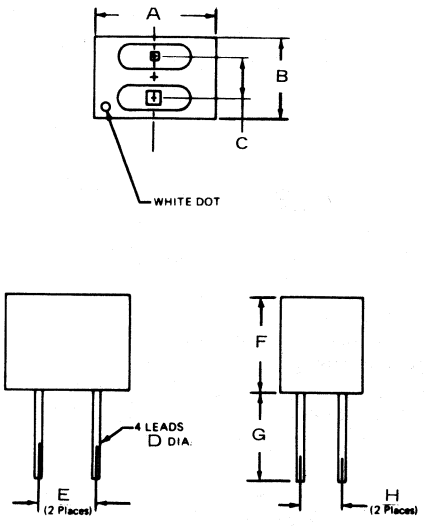
PS10



PS11

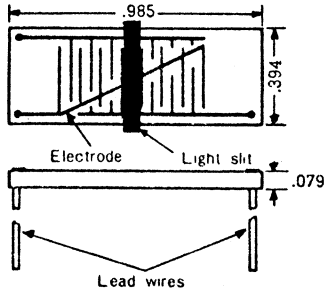


PS12

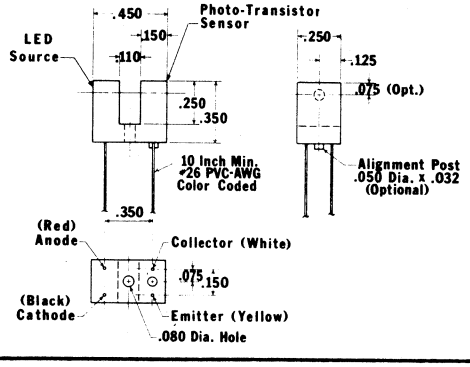


	A	B	C	D	E	F	G	H
PS12	.240	.165 .205	.077 .102	.018	.100	.165 .195	.300 MIN	.087
PS12a	.240	.195	.084 .090	.018	.097 .103	.180 .195	.300 MIN	.084 .090

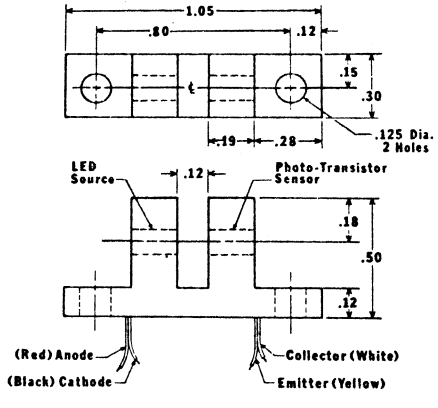
PS13



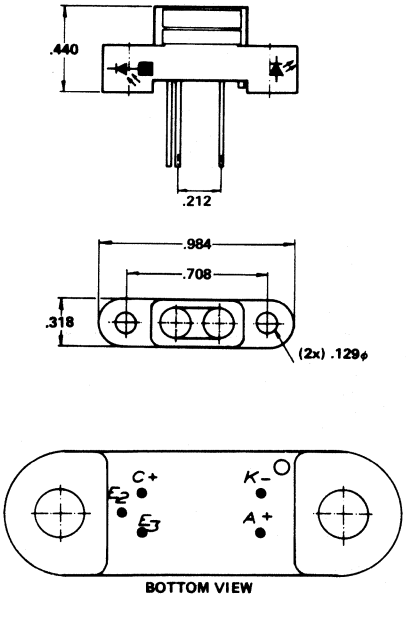
PS14



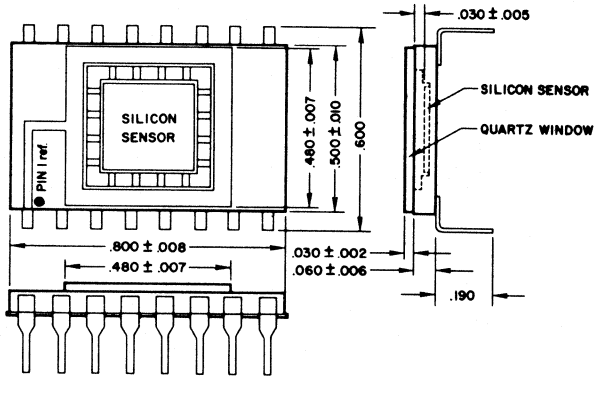
PS15



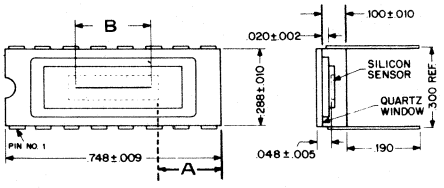
PS16

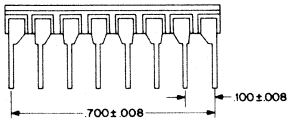


PS17

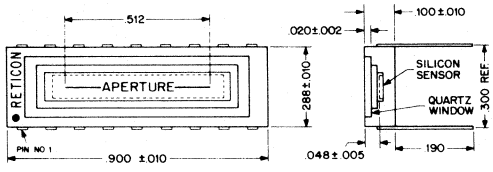


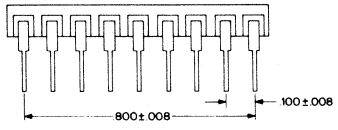
PS18



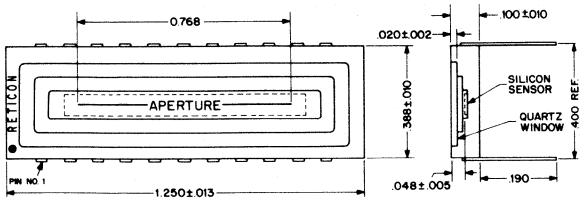


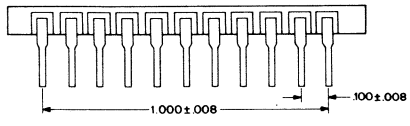
PS18,d-g



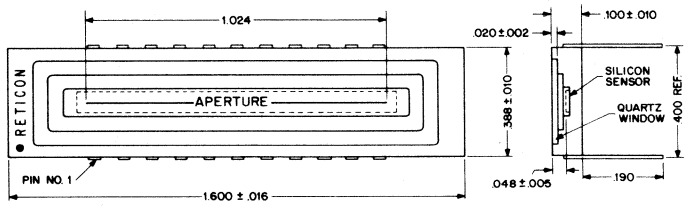


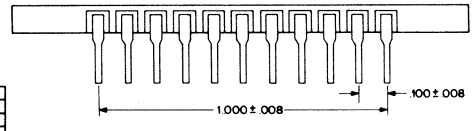
PS18a





PS18b

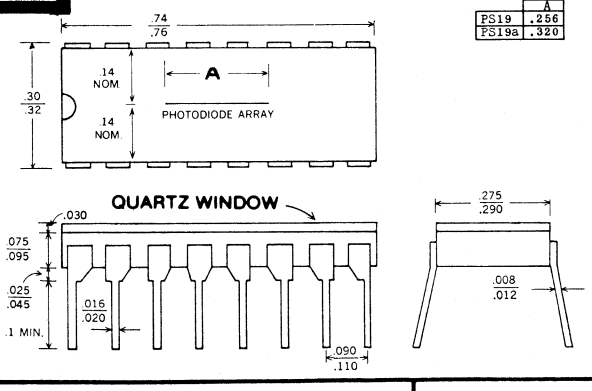




PS18c

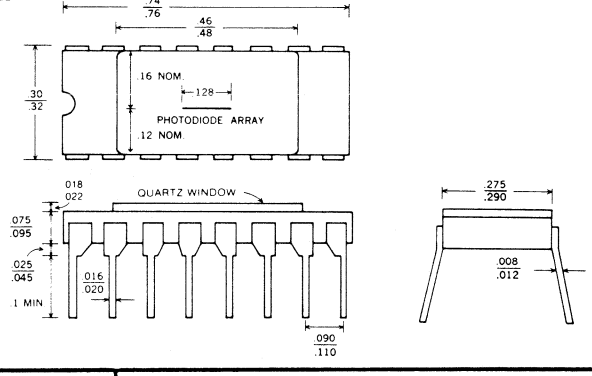
	A	B
PS18		.256
PS18d	.277	
PS18e	.249	
PS18f	.177	
PS18g	.121	

PS19

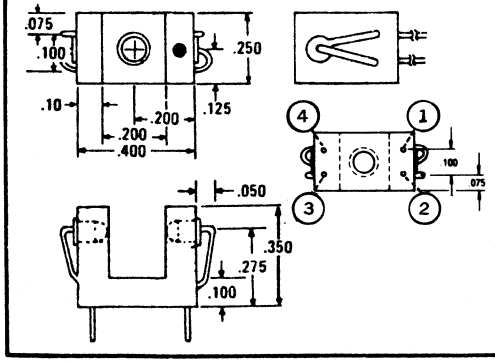


	A
PS19	.256
PS19a	.320

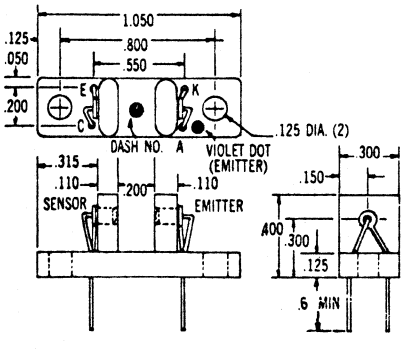
PS20



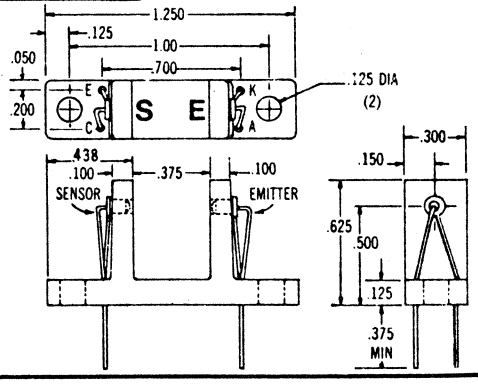
PS21



PS22



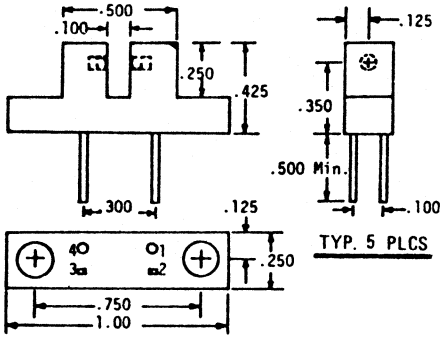
PS23



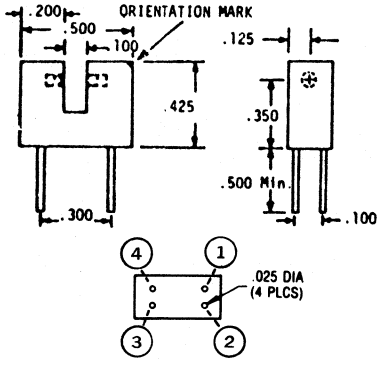
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

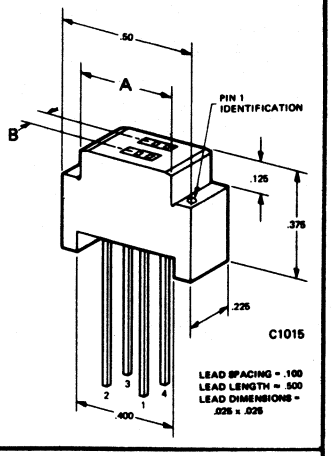
PS24



PS25

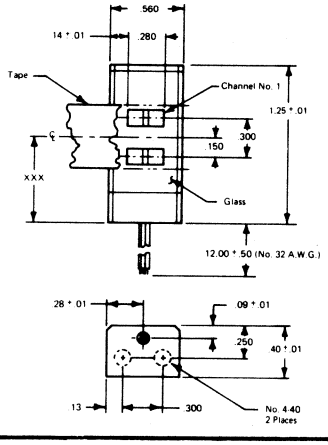


PS26



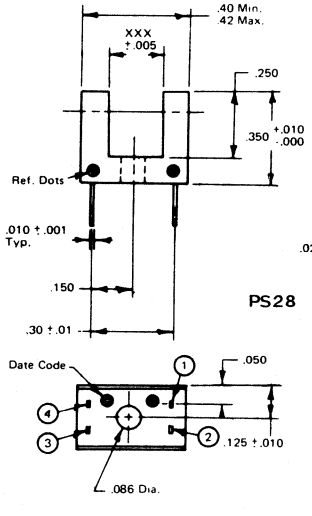
	A	B
PS26	.375	.100
PS26a	.240	.087

PS27

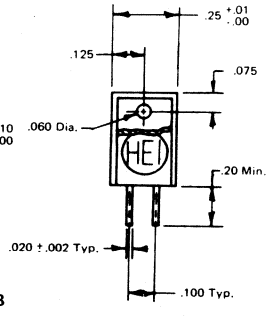


"XXX" – Variable from .590" to .950".
(1) "XXX" is the dimension to centerline of tape.
(2) For single channel "XXX" is the dimension to the centerline of the sensor.

PS28



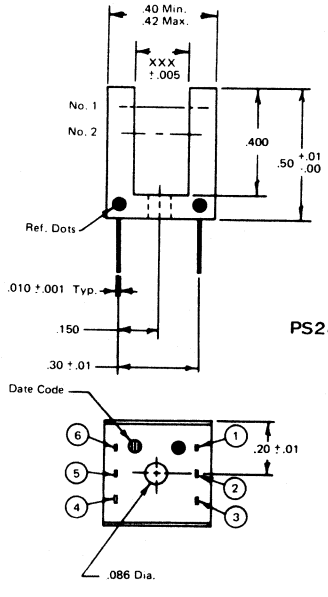
PS28



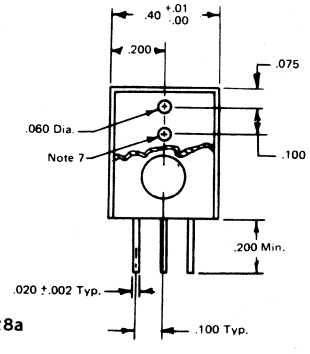
GAP DISTANCE (XXX)

P/N Suffix	Gap
060	.060 Inches
200	.200 Inches

P/N SUFFIX W HAS 12" LONG AWG NO. 28 WIRES



PS28a



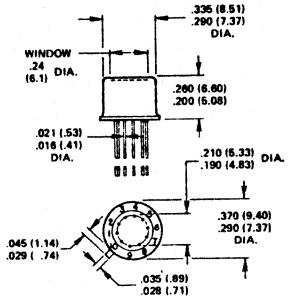
GAP DISTANCE (XXX)

P/N Suffix	Gap
060L	.060 Inches
200L	.200 Inches

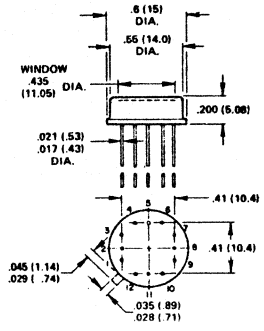
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

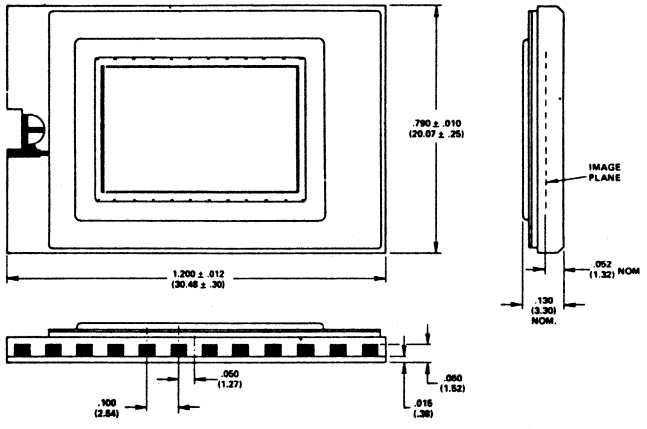
PS29



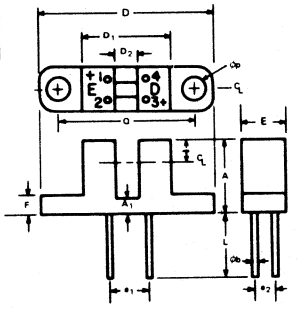
PS30



PS31



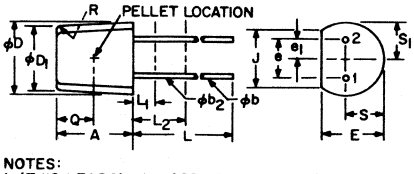
PS32



SYMBOL	INCHES MIN.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS MAX.	NOTES
A	.390	.400	9.91	10.16	
A_1	.075	.085	1.91	2.15	
ϕb	.016	.019	.407	.482	1
D	.954	.984	24.24	24.99	
D_1	.475	.495	12.07	12.57	
D_2	.120	.130	3.05	3.30	
e_1	.205	.235	5.21	5.96	
e_2	.090	.110	2.29	2.79	
E		.250		6.35	
F	.095	.105	2.42	2.66	
L	.300		7.62		1
ϕp	.120	.130	3.05	3.30	
Q	.745	.755	18.93	19.17	
T	.110 NOM.		2.79 NOM.		2

NOTES:
1. Four leads. Lead diameter controlled between .050" (1.27 MM) from the seating plane and the end of the leads.
2. The sensing area falls within a .060" (1.52 MM) square on this centerline.

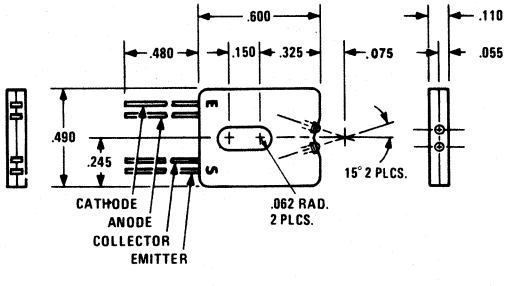
PS33



NOTES:
1. (TWO LEADS) ϕb2 APPLIES BETWEEN L_1 AND L_2. ϕb APPLIES BETWEEN L_2 AND .5" (12.70MM) FROM SEATING PLANE. DIAMETER IS UNCONTROLLED IN L_1 AND BEYOND .5" (12.70MM) FROM SEATING PLANE.
2. THE CENTER LINE OF THE ACTIVE ELEMENT IS LOCATED WITHIN ±.020" (.51 MM) OF THE POSITION SHOWN.
3. AS MEASURED WITHIN .050" (1.27MM) OF THE SEATING PLANE.

SYMBOL	INCHES MIN.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS MAX.	NOTES
A	.170	.210	4.31	5.34	
ϕb	.016	.021	.406	.534	1
ϕb2	.016	.019	.406	.483	1
ϕD	.170	.200	4.31	5.08	
ϕD1	.160	.190	4.06	4.83	
E	.125	.155	3.17	3.94	
e	.095	.105	2.41	2.67	3
e1	.045	.055	1.14	1.40	3
J	.135	.170	3.42	4.32	
L	.500		12.70		1
L1		.050		1.27	1
L2	.250		6.35		1
Q	.095	REF.	2.29	REF.	2
R	.055		.12		
S	.080	.105	2.03	2.67	
S1	.090	REF.	2.29	REF.	

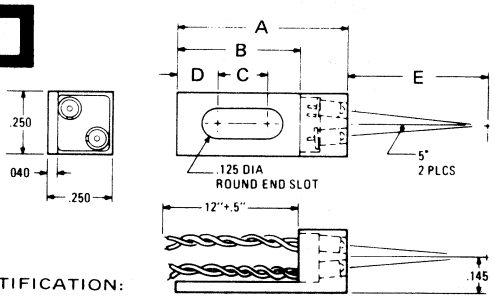
PS34



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PS35



	A	B	C	D	E
PS35, a-c,e	.625	.450	.187	.150	.500
PS35d	.750	.570	.330	.120	.500

LEAD IDENTIFICATION:

A. SENSOR FOR PS35; COLLECTOR, BROWN; EMITTER, BLACK

B. SENSOR FOR PS35a; COLLECTOR, ORANGE; EMITTER, BLACK

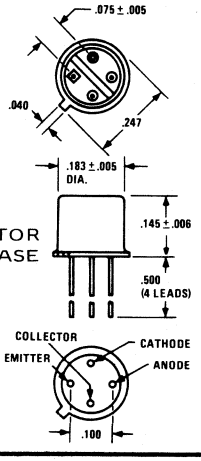
C. SENSOR FOR PS35b; COLLECTOR, YELLOW; EMITTER, BLACK

D. LED: BLACK=(NEG.); RED=(POS.).

PS35e ONLY

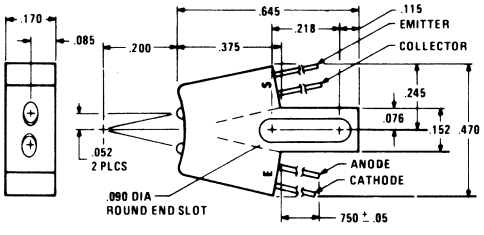
1. LED CATHODE
2. LED ANODE
3. SENSOR COLLECTOR
4. SENSOR EMITTER

PS36

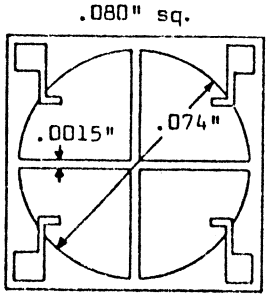


NOTE: COLLECTOR COMMON TO CASE

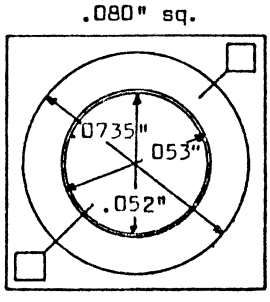
PS37



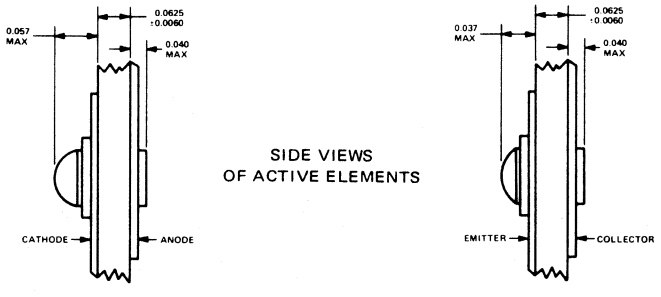
PS38

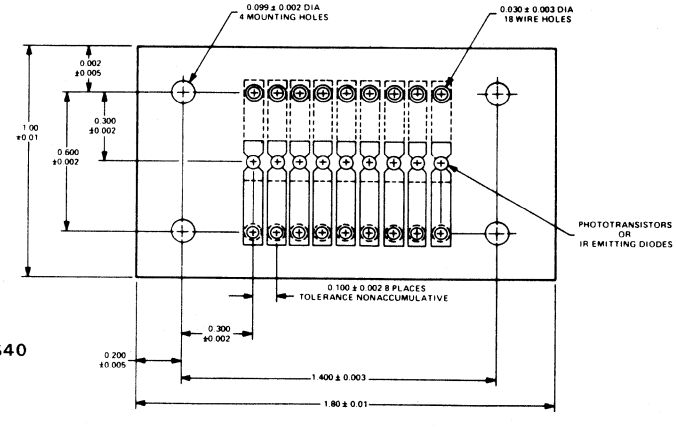


PS39

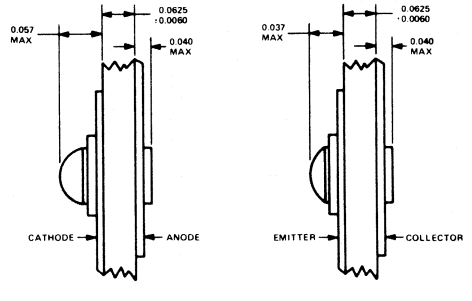


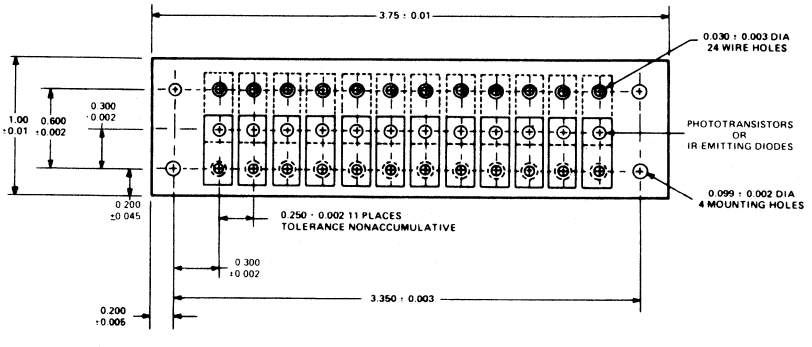
PS40





PS40



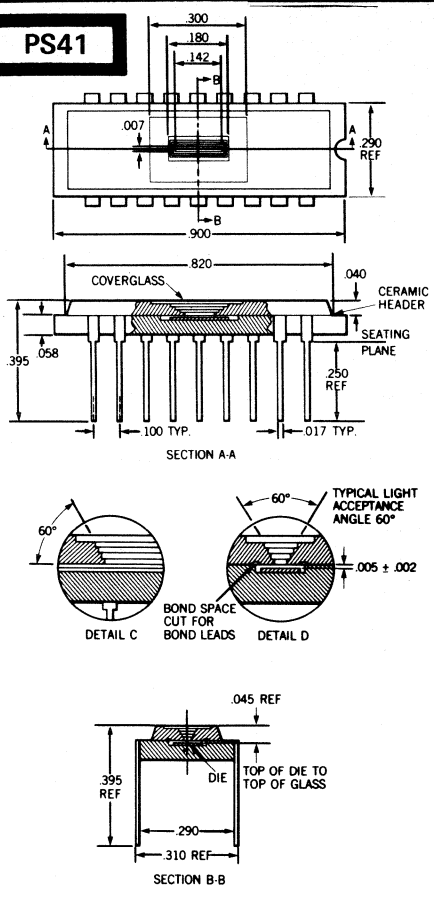


PS40a

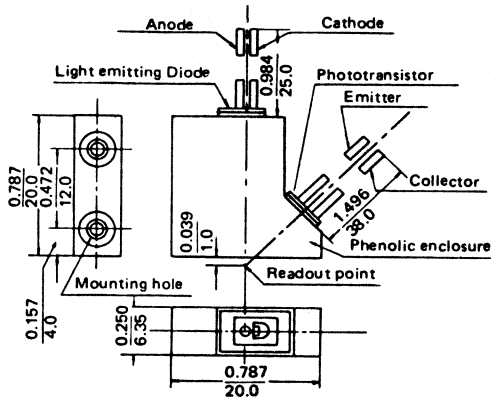
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

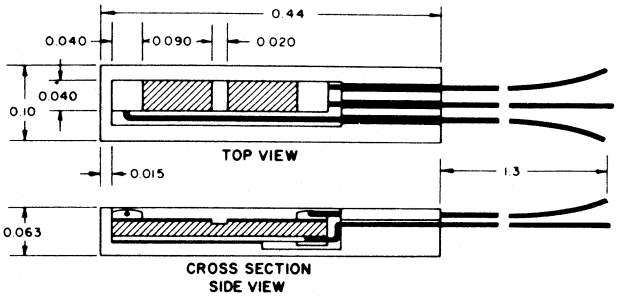
PS41



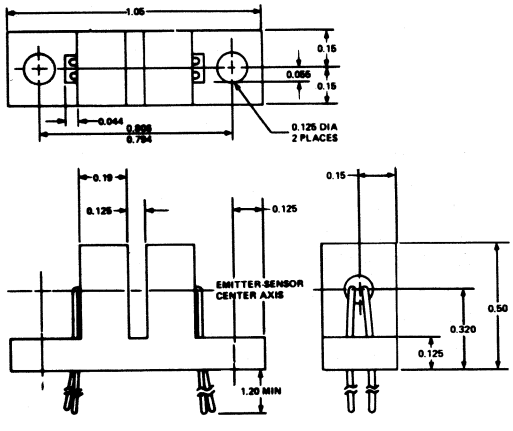
PS44



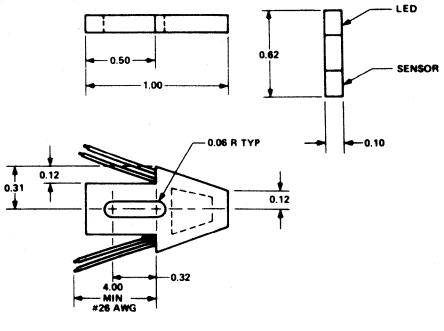
PS45



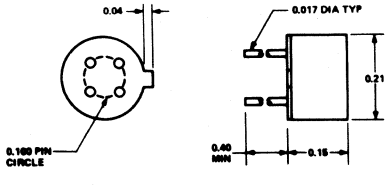
PS46



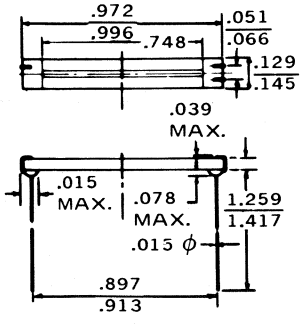
PS47



PS48



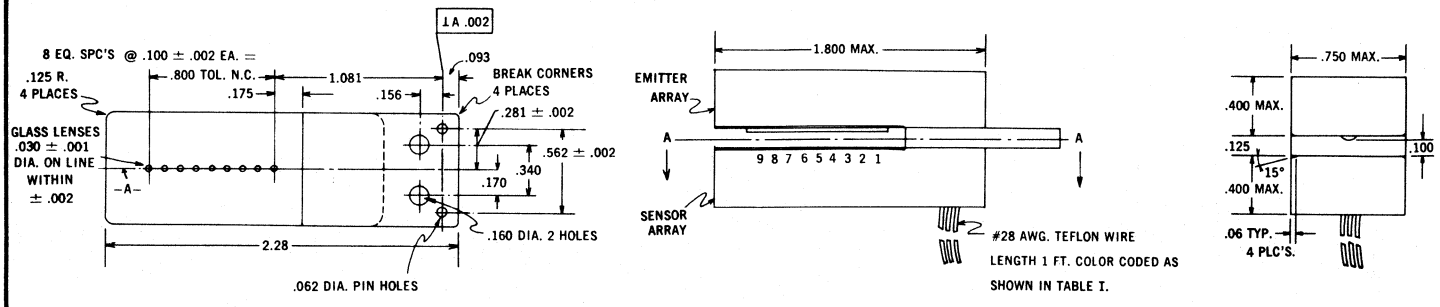
PS49



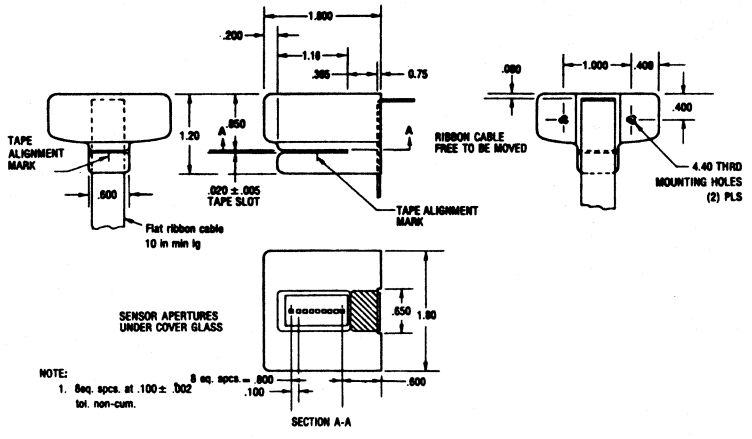
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

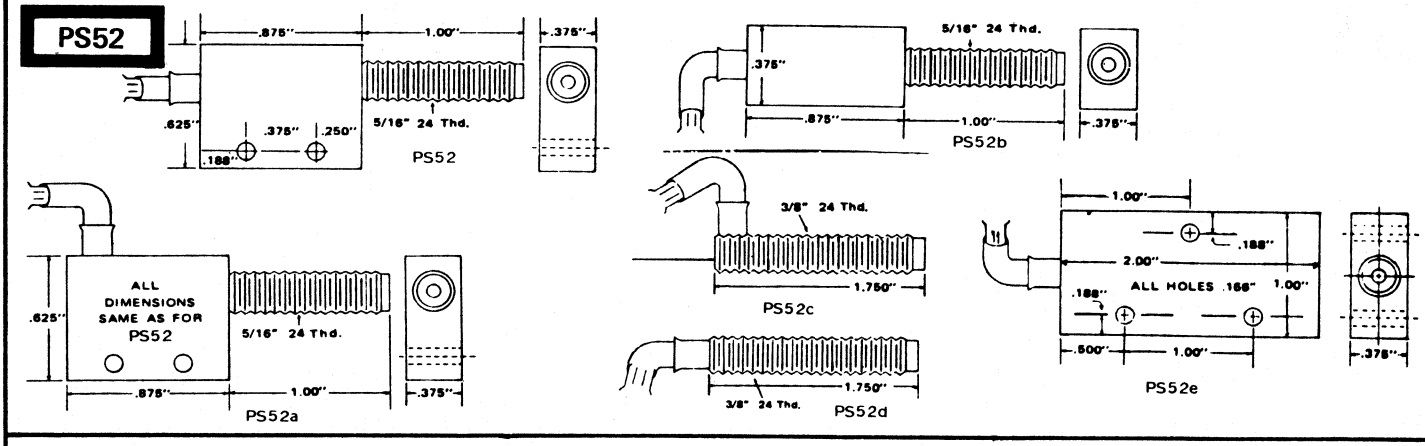
PS50



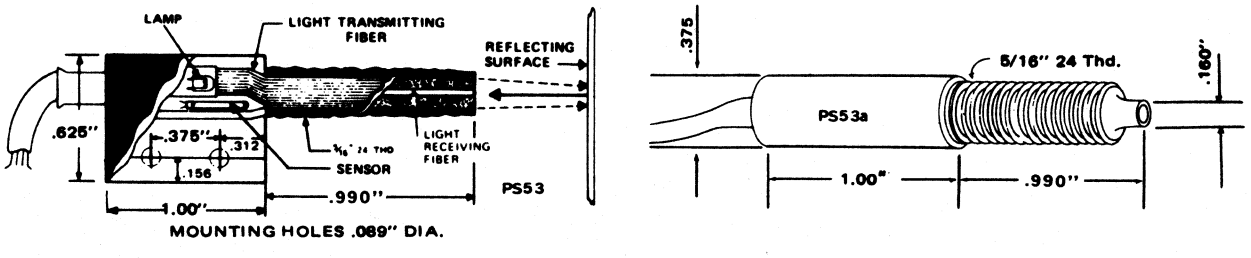
PS51



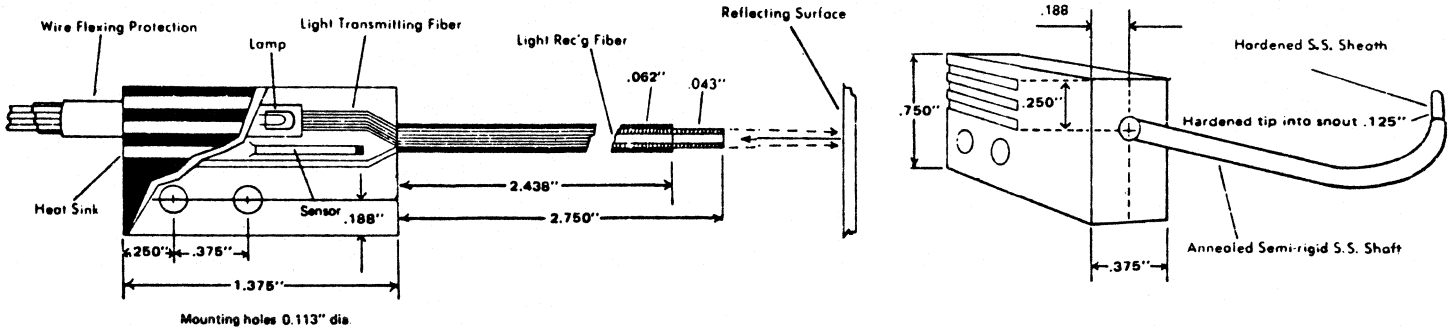
PS52



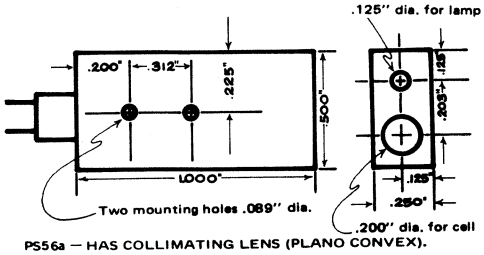
PS53



PS54

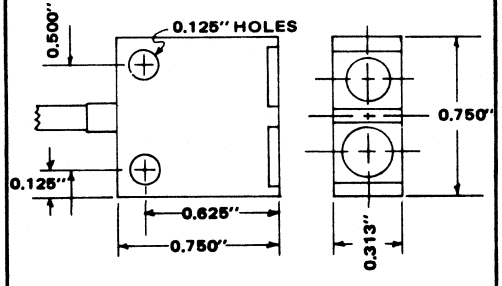


PS56

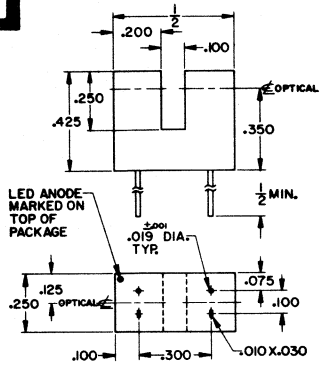


PS56a — HAS COLLIMATING LENS (PLANO CONVEX).

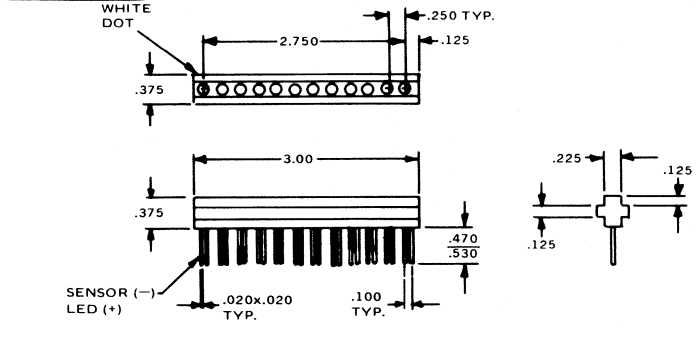
PS57



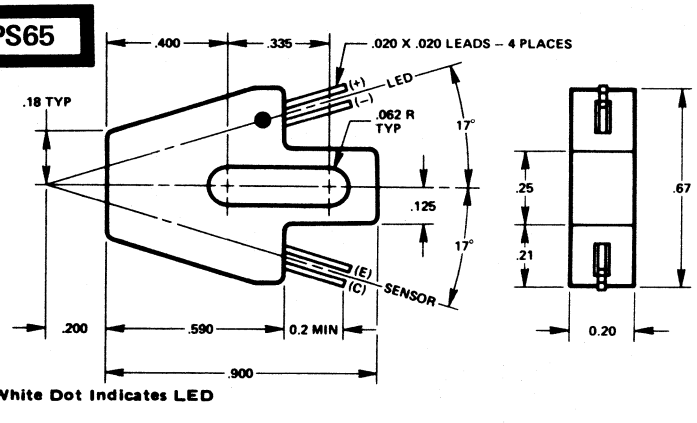
PS58



PS63

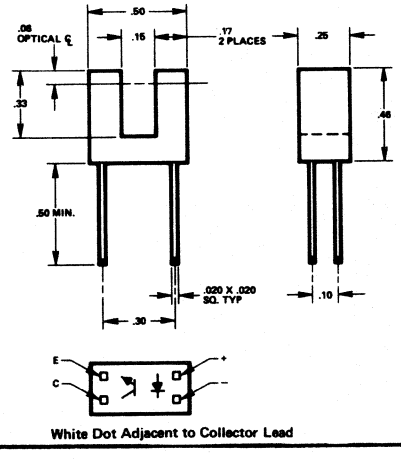


PS65



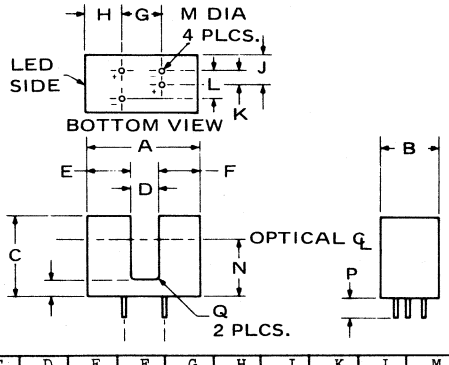
White Dot Indicates LED

PS68



White Dot Adjacent to Collector Lead

PS69

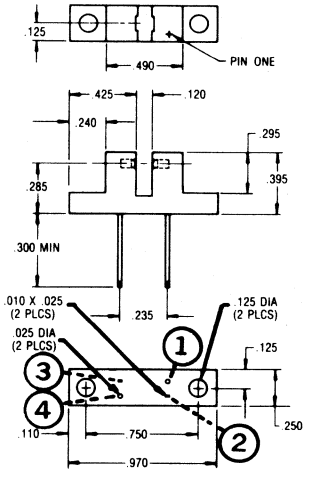


	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
PS69	.820	.440	.600	.200	.310	.310	.300	.260	.220	.100	.200	.020 DIA	.420	.140 MIN	.03R	.120
PS69a	.500 MAX	.250	.425	.100	.200	.210	.300			.100	.100					

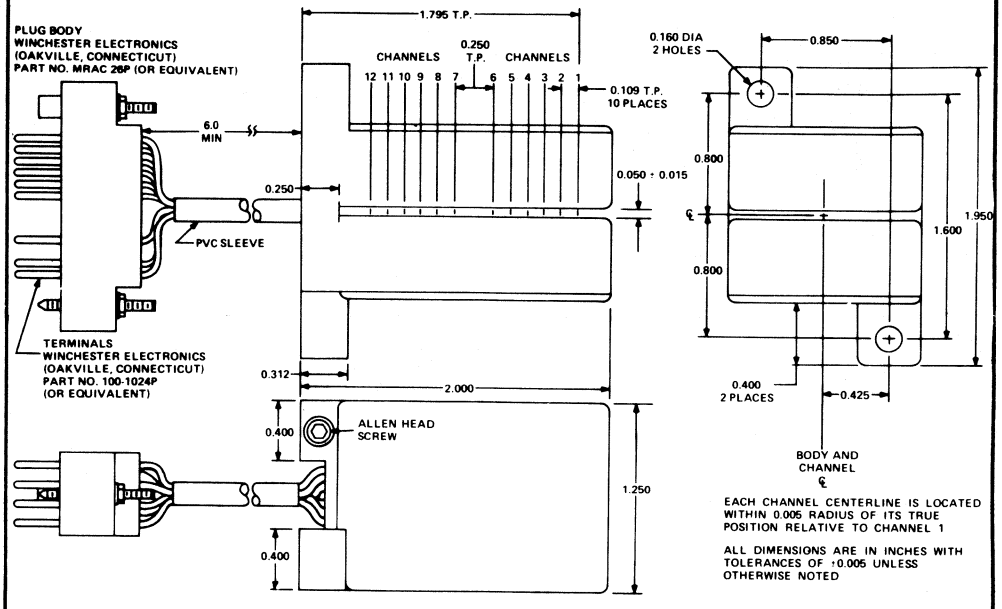
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PS73



PS74

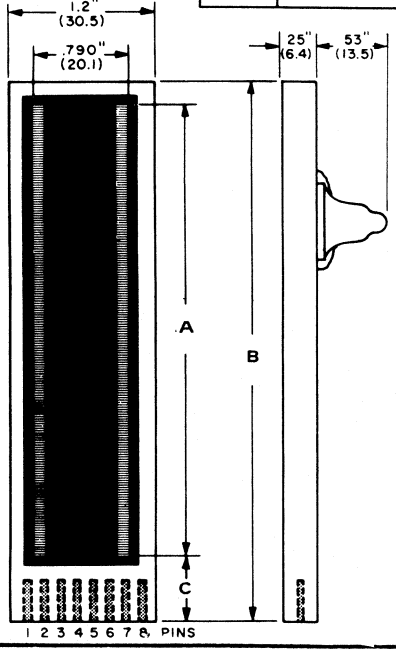


PS75

	A	B	C
PS75	4.000	4.600	.380
PS75a	5.000	5.900	.510

PIN CONNECTIONS

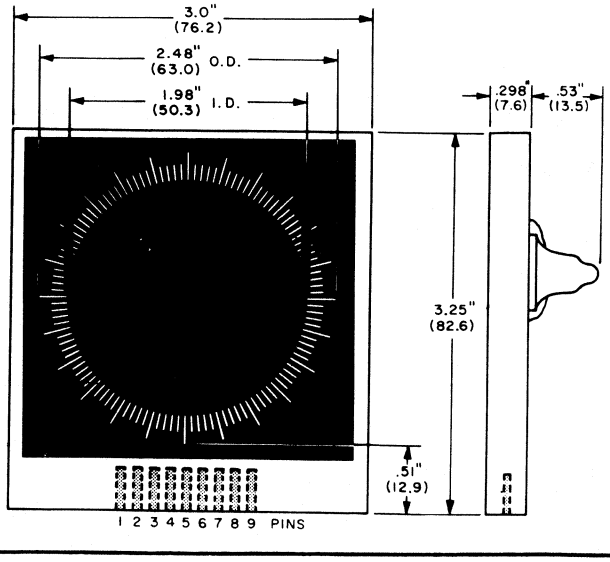
Pin	Connection
1	Channel No. 1 Anode
2	Phase 1 Cathode
3	Phase 3 Cathode
4	Reset Cathode
5	Keep Alive Anode
6	Keep Alive Cathode
7	Phase 2 Cathode
8	Channel No. 2 Anode



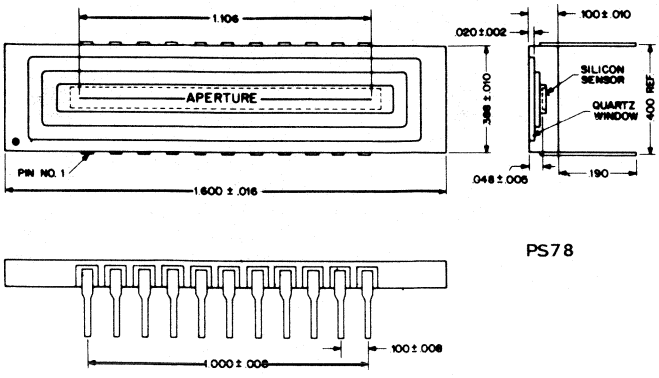
PS77

PIN CONNECTIONS

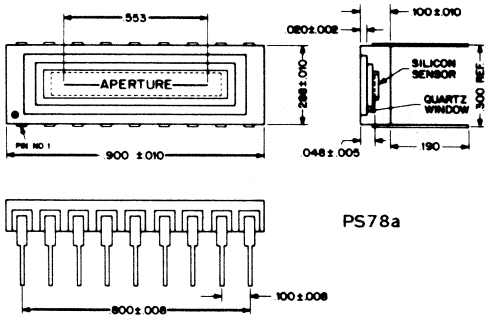
Pin	Connection
1	Phase 3 Cathode
2	Reset Cathode
3	Keep Alive Cathode
4	Keep Alive Anode
5	Phase 2 Cathode
6	Phase 4 Cathode
7	Phase 1 Cathode
8	Phase 5 Cathode
9	Anode



PS78

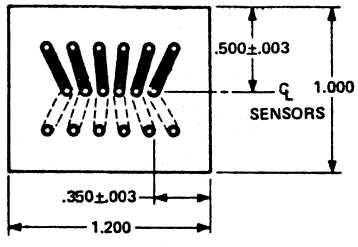


PS78

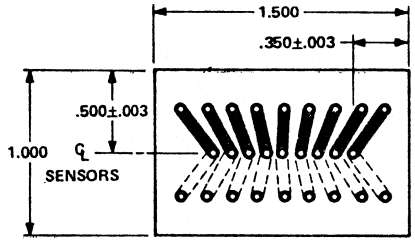


PS78a

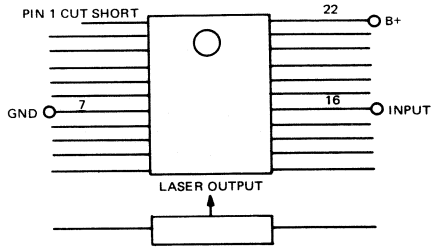
PS79



PS80

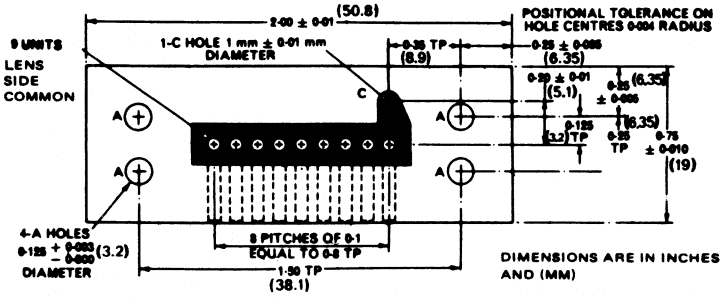


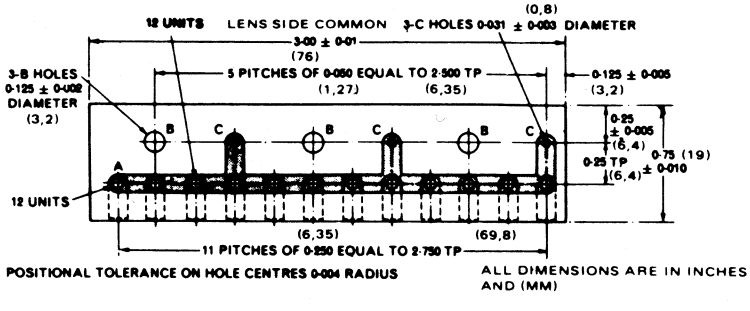
PS82

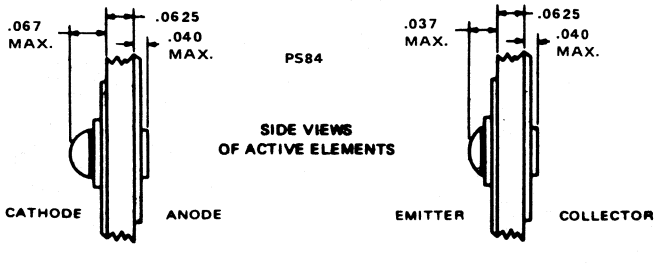


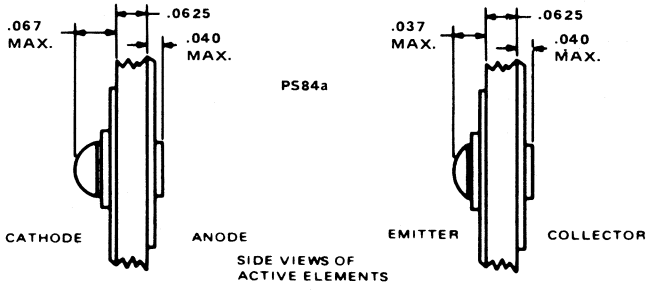
PS82–3/8 x 5/8 FLAT PACK
PS82a – 3/4 x 3/4 FLAT PACK

PS84





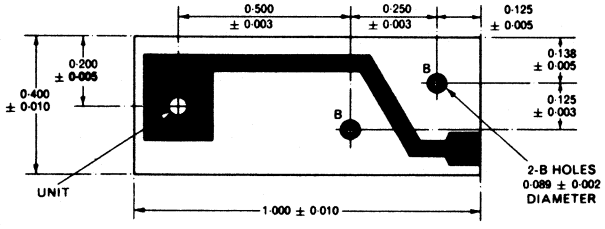


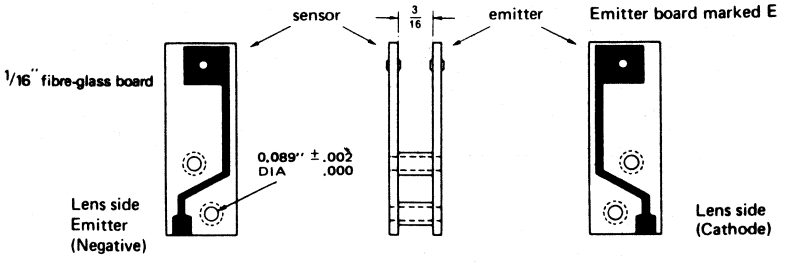


49. OUTLINE DRAWINGS

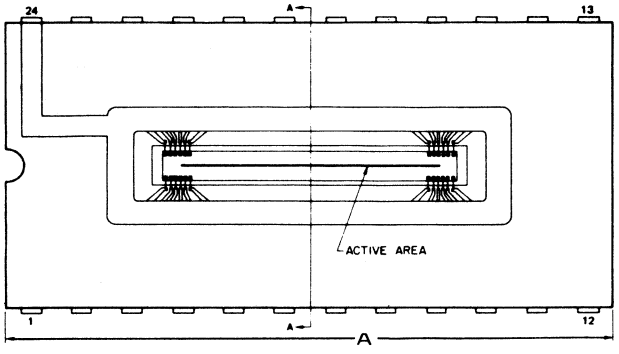
IN DRAWING NUMBER SEQUENCE

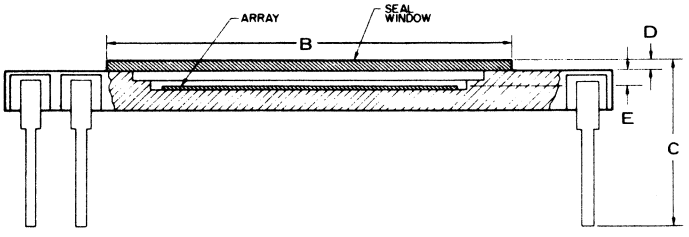
PS85





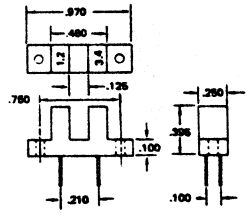
PS86



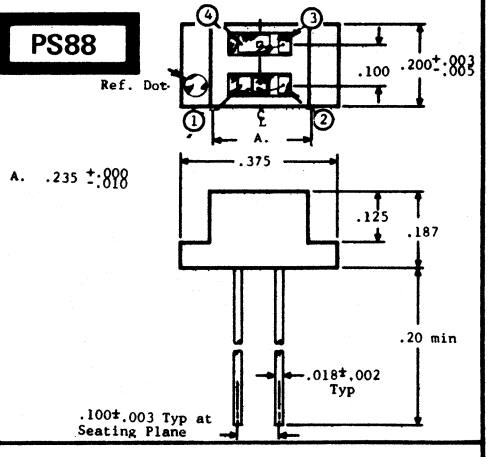


	A	B	C	D	E	F	G	H	I	J
PS86	1.200	.800	.340	.020	.032	.250	.600	.080	.040	.020
PS86a	1.200	1.080	.320	.020	.032	.270	.610	.080		

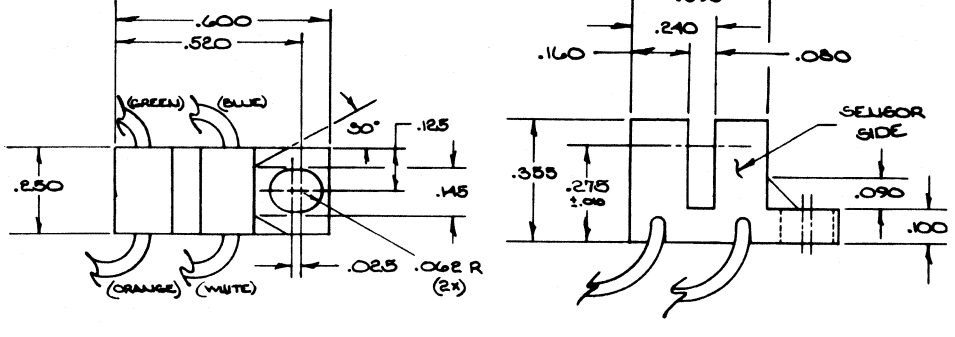
PS87



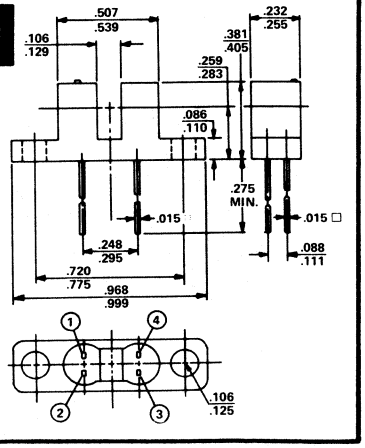
PS88



PS89



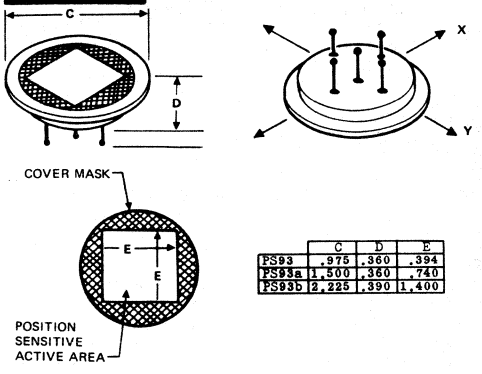
PS92



49. OUTLINE DRAWINGS

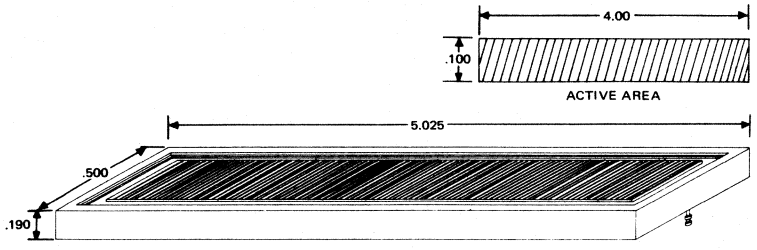
IN DRAWING NUMBER SEQUENCE

PS93

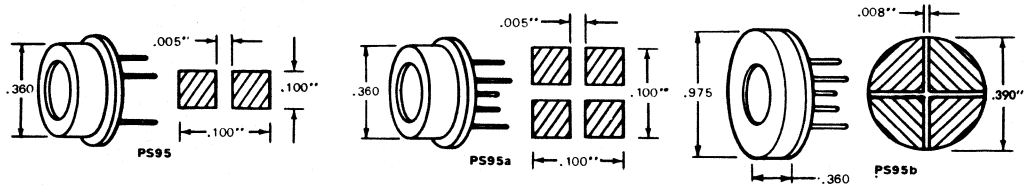


	C	D	E
PS93	.975	.360	.394
PS93a	1.500	.360	.740
PS93b	2.225	.390	1.400

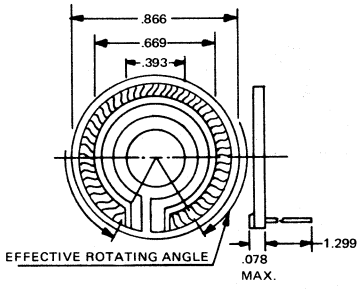
PS94



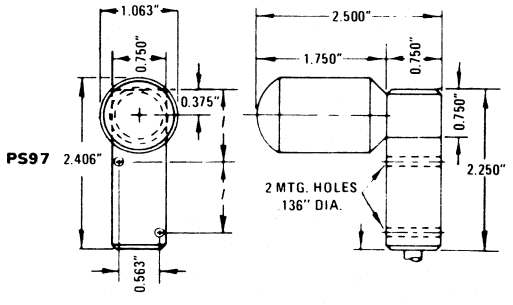
PS95

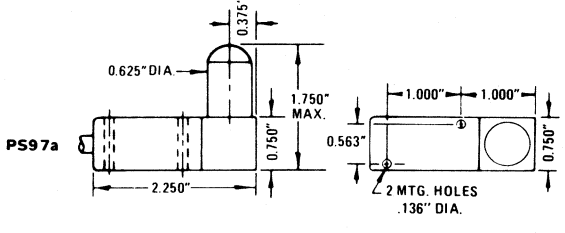


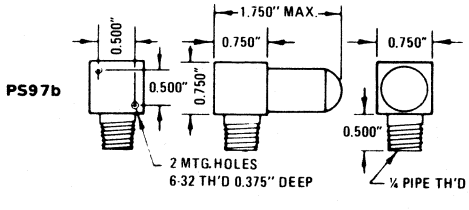
PS96



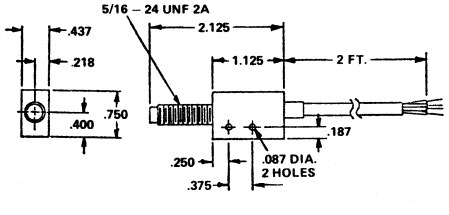
PS97







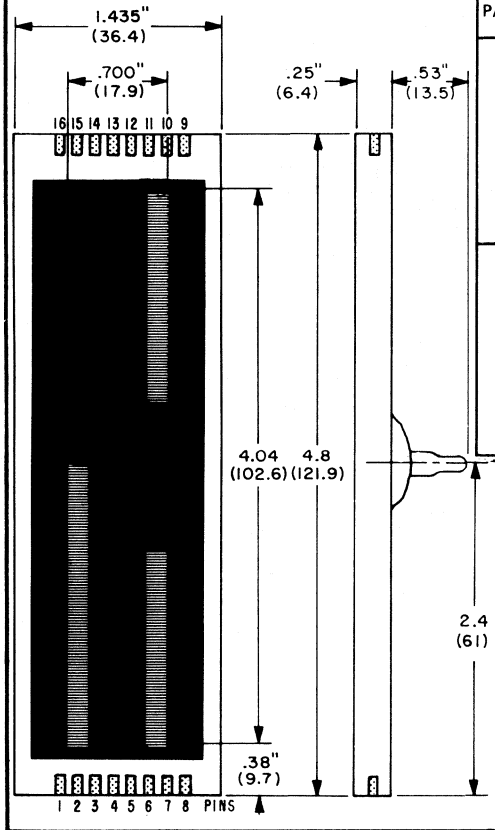
PS99



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

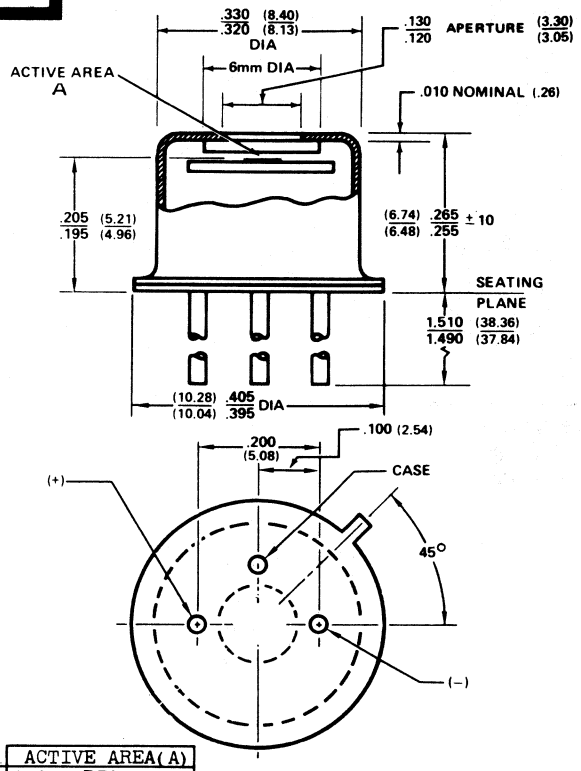
PS100



PIN CONNECTIONS

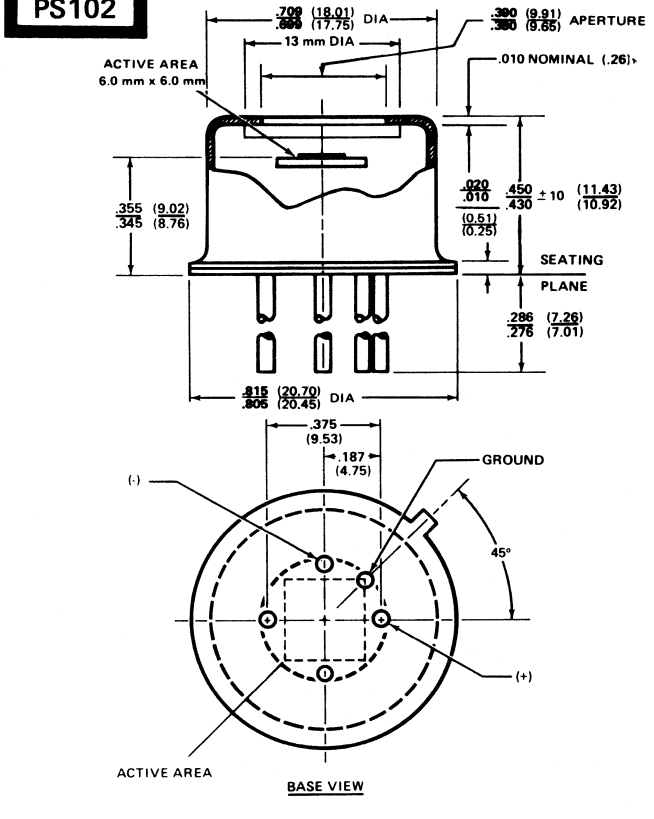
PAD NO.	CONNECTION
1	Anode
2	Phase R (Top)
3	Phase 1
4	Phase R (Bot)
5	Phase 2
6	Keep Alive K
7	Keep Alive A
8	Phase 3
9	Anode
10	Phase R (Top)
11	Phase 1
12	Phase R (Bot)
13	Phase 2
14	Keep Alive K
15	Keep Alive A
16	Phase 3

PS101

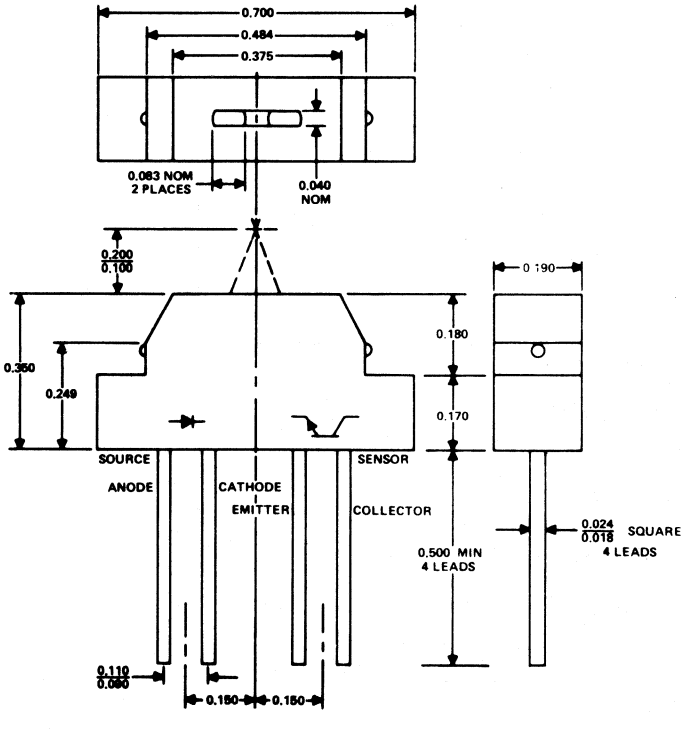


	ACTIVE AREA(A)
PS101	1.0mm DIA
PS101a	0.2mm x 2.0mm
PS101b	1.5mm x 1.5mm

PS102



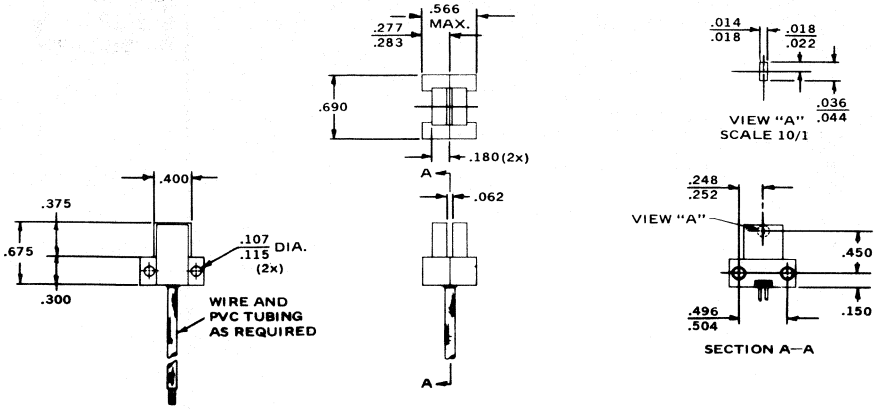
PS104



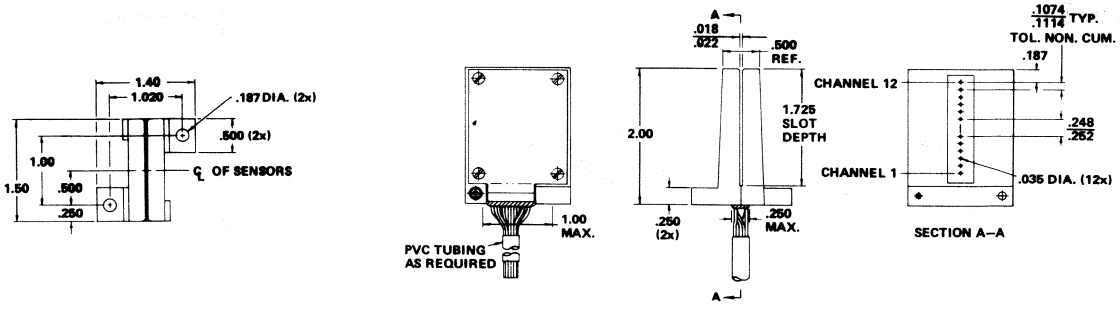
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

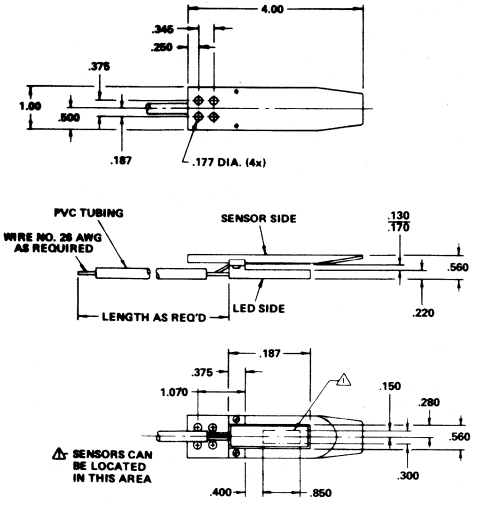
PS105



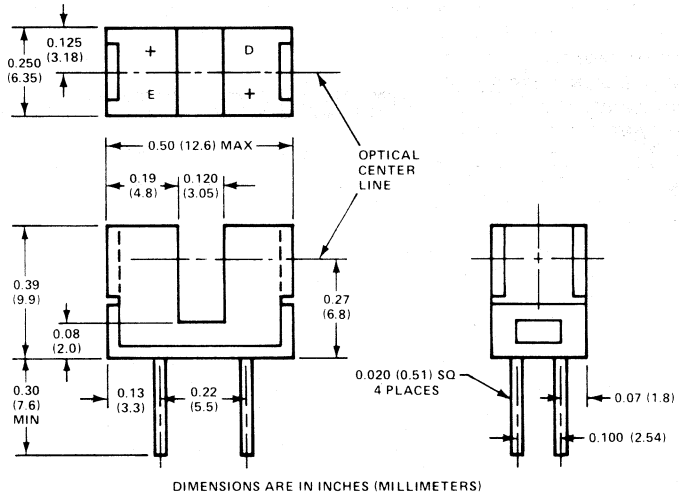
PS106



PS107



PS108

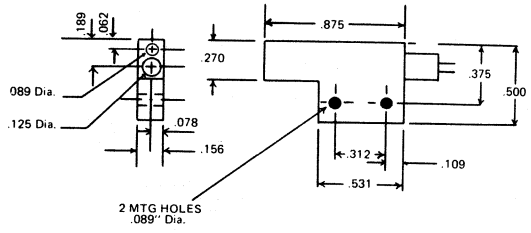


DIMENSIONS ARE IN INCHES (MILLIMETERS)
X.XXX = ± 0.010 (0.25)

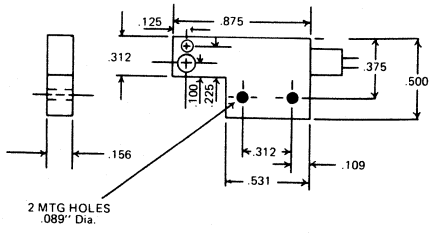
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

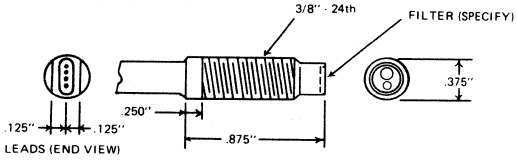
PS110



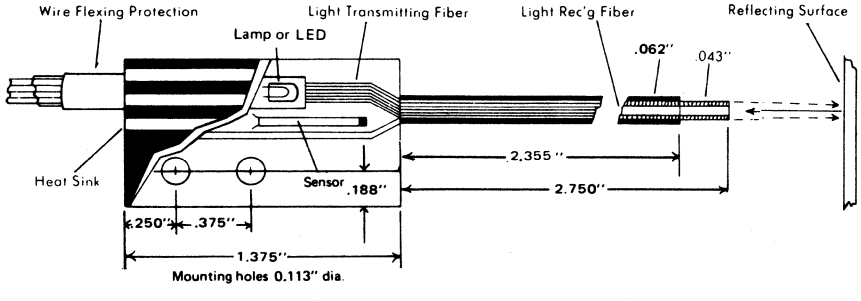
PS111

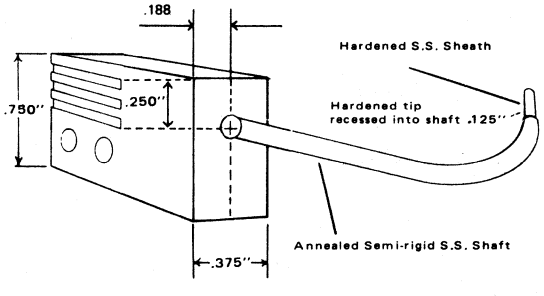


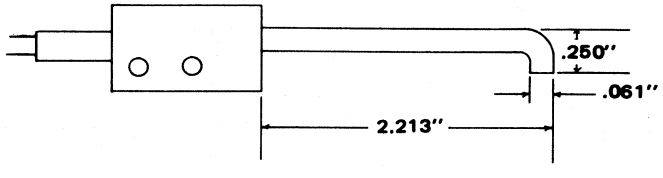
PS112



PS113



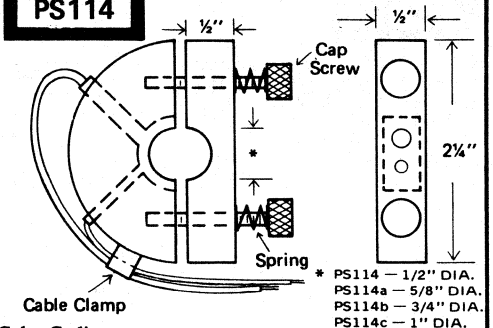




49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

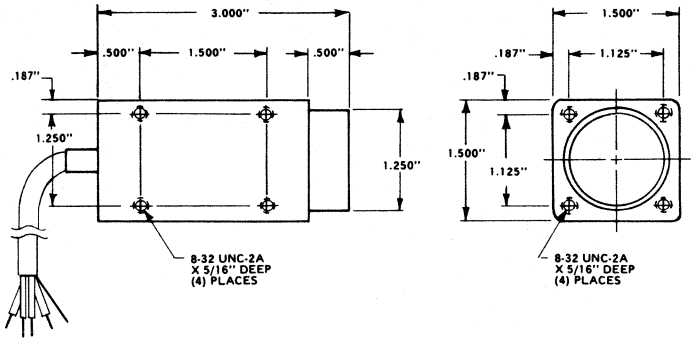
PS114



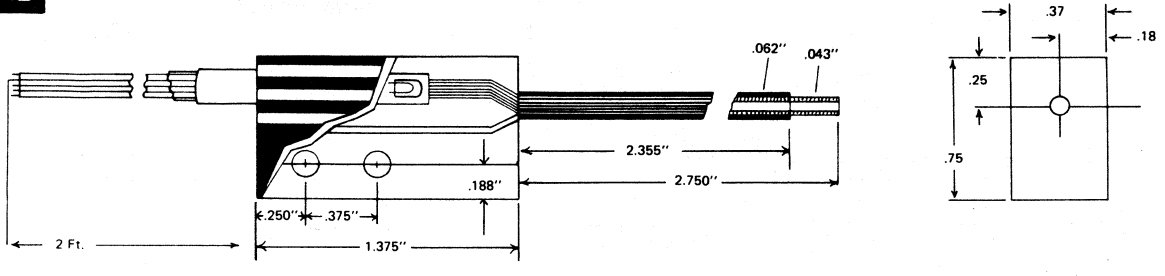
* PS114 — 1/2" DIA.
PS114a — 5/8" DIA.
PS114b — 3/4" DIA.
PS114c — 1" DIA.
PS114d — 1/2" DIA.
PS114e — 3/8" DIA.

Color Coding:
Lamp -white and blue - no polarity
Sensor -red (+) black (−) twisted pair w/alumimum/kapton shield.

PS115

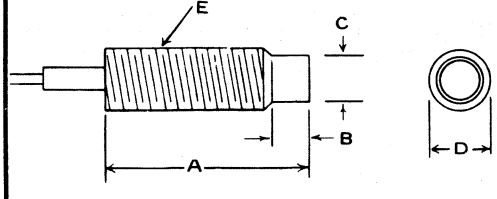


PS116



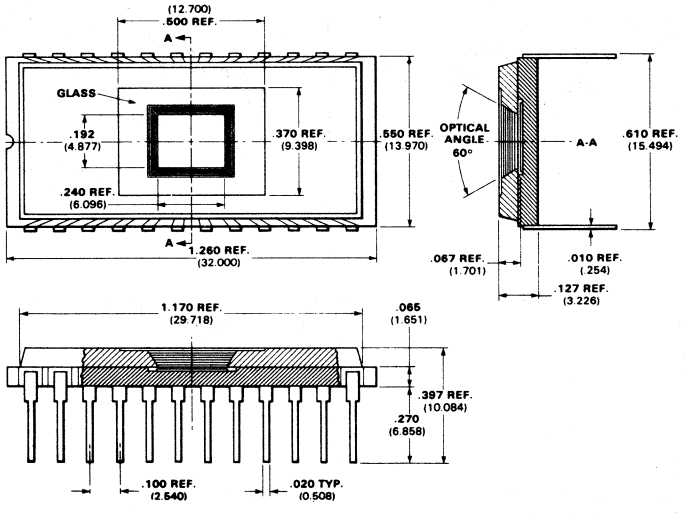
Mounting holes 0.113" dia.

PS117



	A	B	C	D	E (THD)
PS117	1.00	.100	.275	.375	3/8-24NF
PS117a	1.00	.120	.180		5/16-24
PS117b	.750	.250	.185	.250	1/4-28

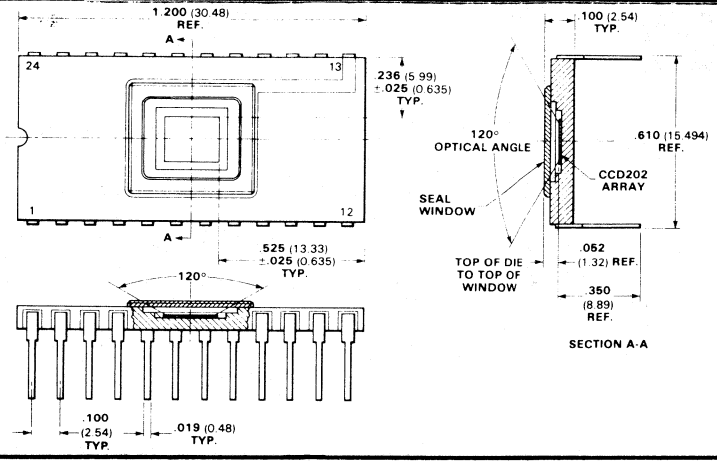
PS118



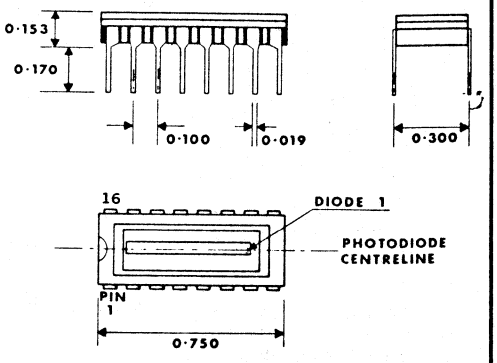
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

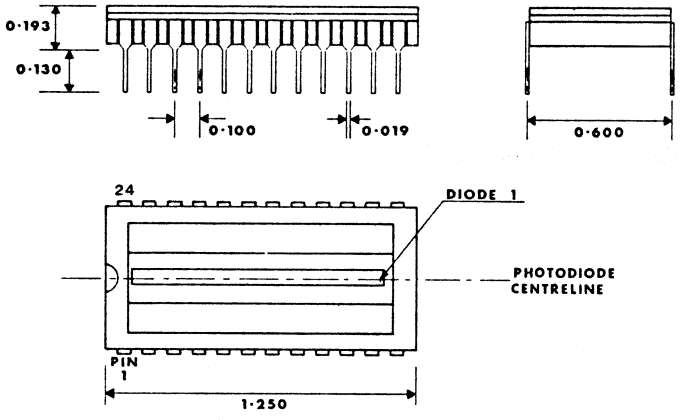
PS119



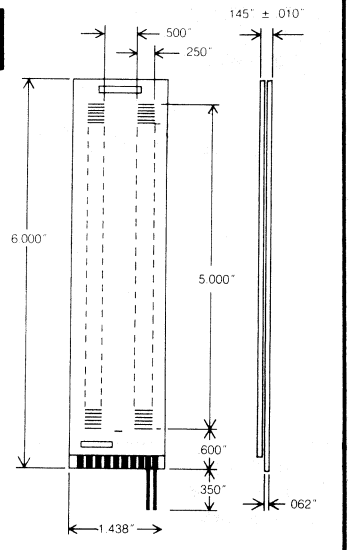
PS120



PS121

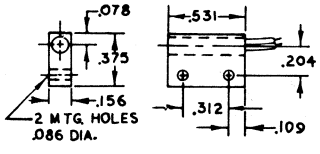


PS122

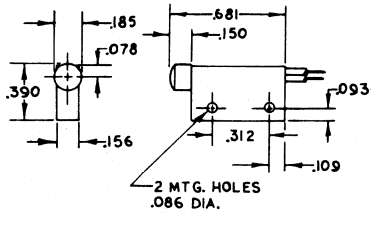


Pin Number	Electrical Connection
1	A1
2	Ø1
3	Ø2
4	Ø3
5	Ø4
6	KA
7	Ø5
8	ØR
9	Ka
10	A2

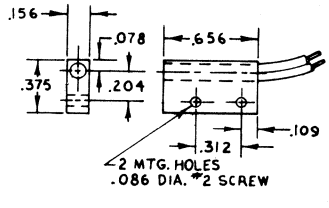
PS123



PS124



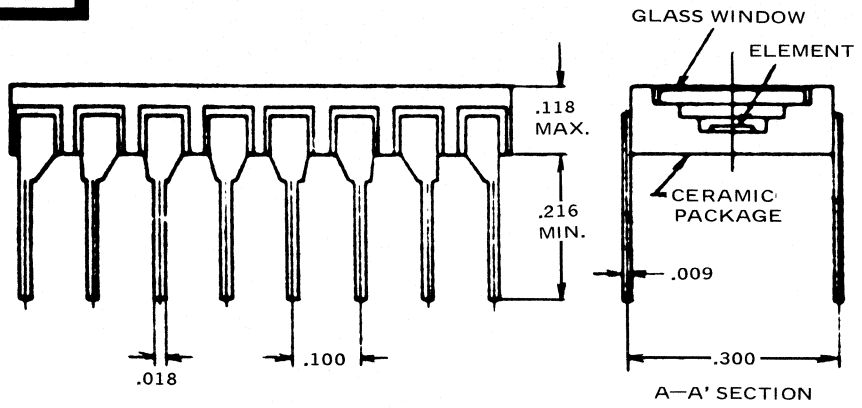
PS125

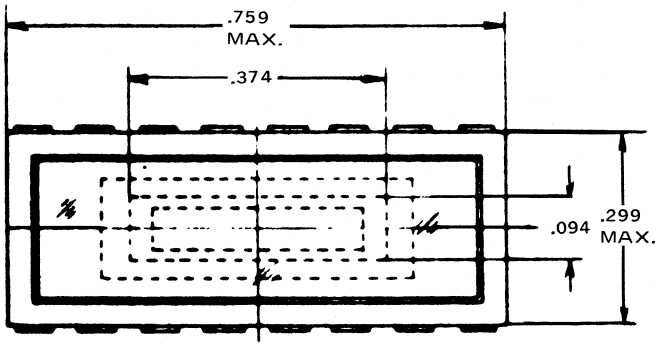


49. OUTLINE DRAWINGS

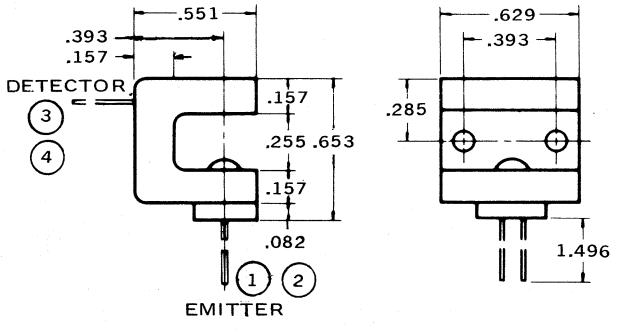
IN DRAWING NUMBER SEQUENCE

PS127

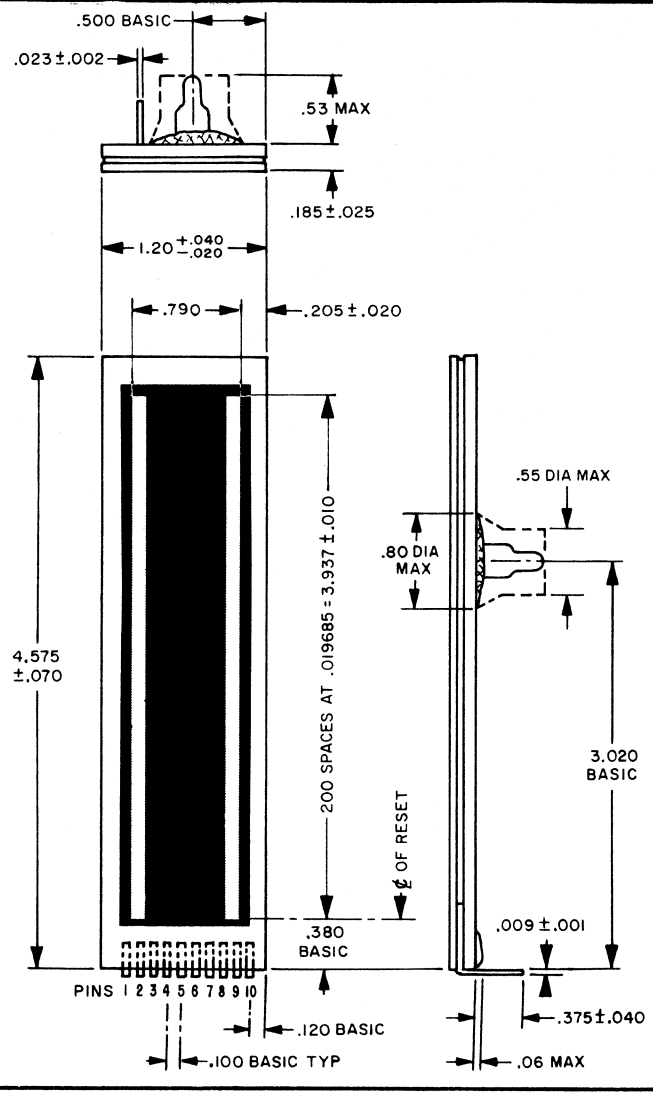




PS128

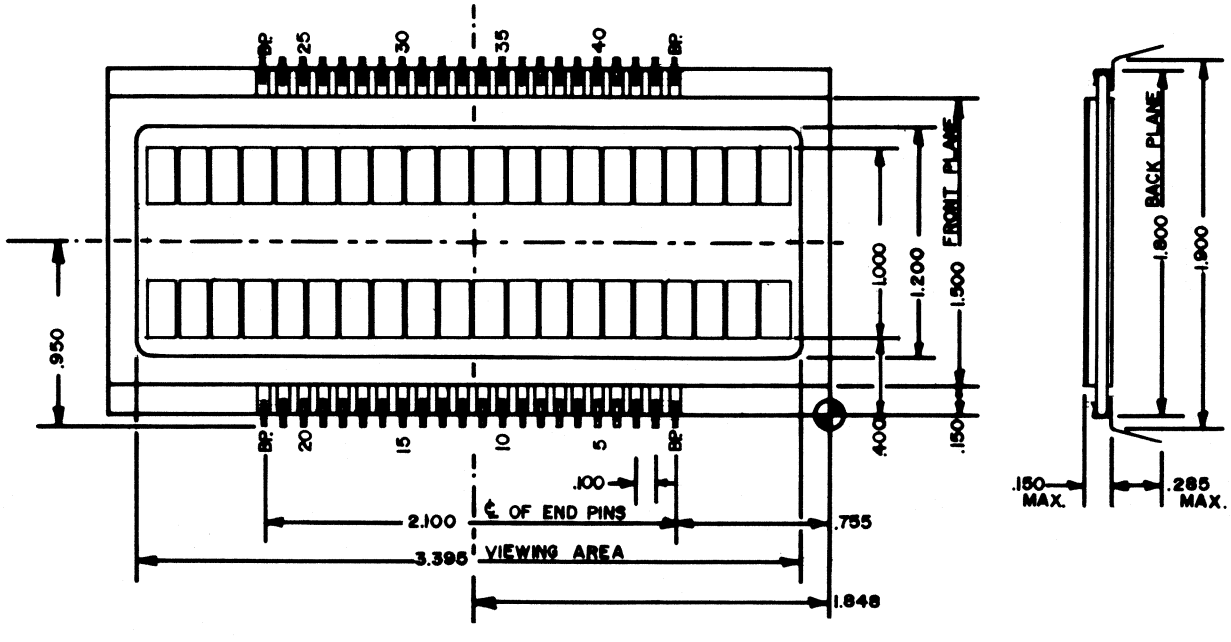


PS130



Pin	Connection
1	Channel No. 1 Anode
2	Phase 2 Cathode
3	Phase 1 Cathode
4	Reset Cathode
5	Keep-Alive Anode
6	Keep-Alive Cathode
7	Phase 4 Cathode
8	Phase 3 Cathode
9	Phase 5 Cathode
10	Channel No. 2 Anode

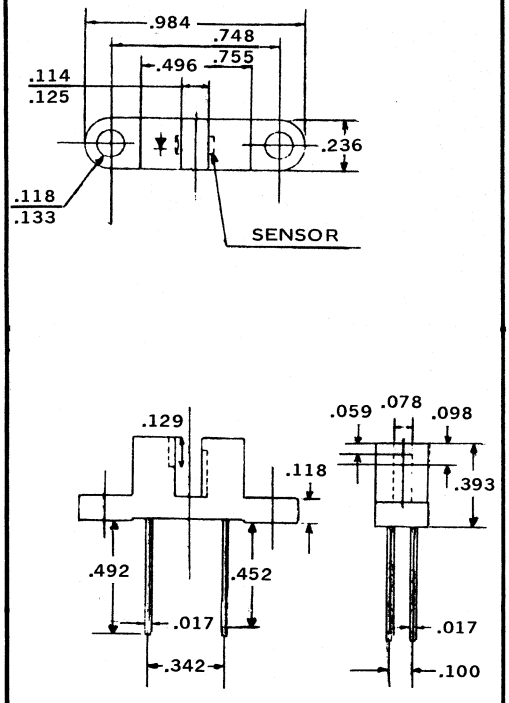
PS131



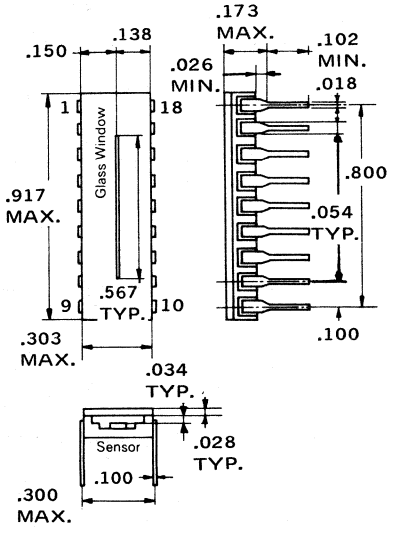
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

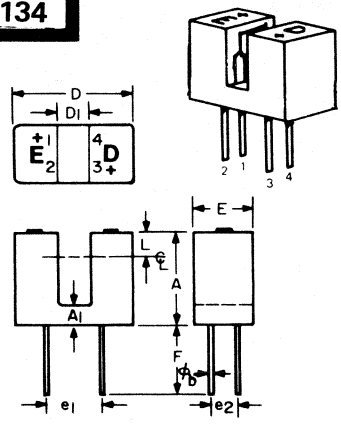
PS132



PS133



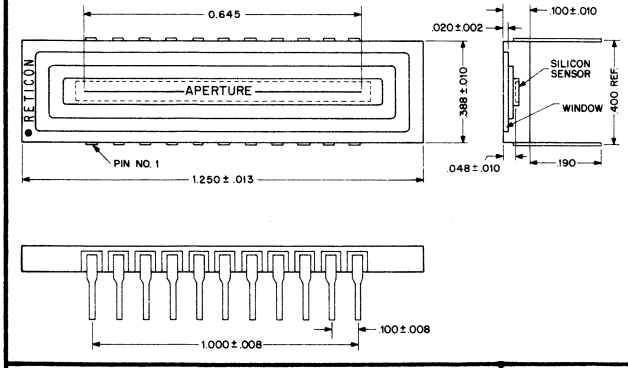
PS134



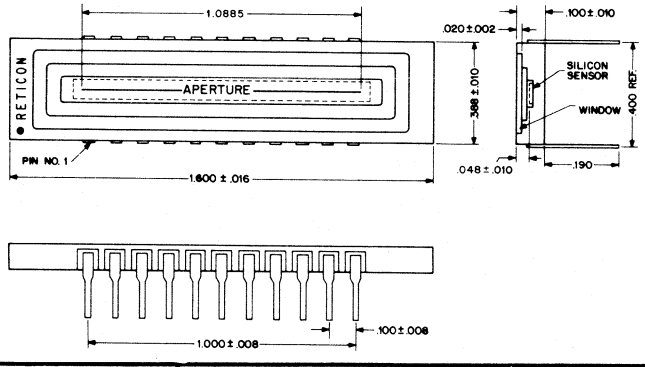
SYM.	INCHES MIN.	INCHES MAX.	MILLIMETERS MIN.	MILLIMETERS MAX.	NOTES
A	.390	.400	9.91	10.16	
A1	.075	.085	1.91	2.15	
ϕb	.016	.019	.407	.482	1
D	.475	.495	12.07	12.57	
D1	.120	.130	3.05	3.30	
e1	.205	.235	5.21	5.96	
e2	.090	.110	2.29	2.79	
E	–	.250	–	6.35	
F	.300	–	7.62	–	
L	.110	NOM.	2.79	NOM.	2

NOTES:
1. FOUR LEADS. LEAD DIAMETER CONTROLLED BETWEEN .050"(1.27 MM) FROM THE SEATING PLANE AND THE END OF THE LEADS.
2. THE SENSING AREA FALLS WITHIN A .060" (1.52 MM) SQUARE ON THIS CENTERLINE.

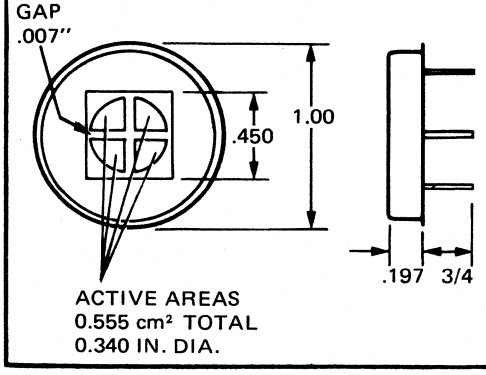
PS135



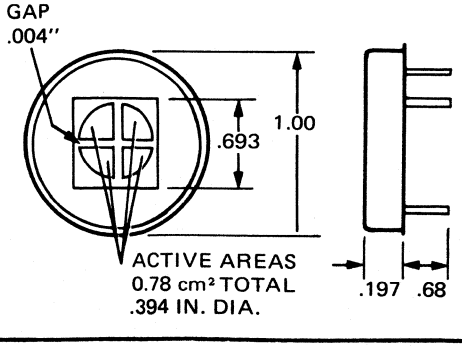
PS136



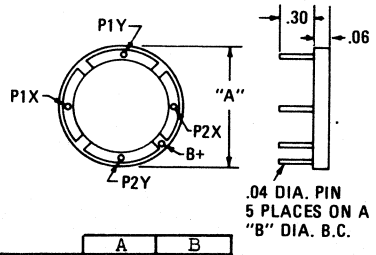
PS137



PS138



PS139

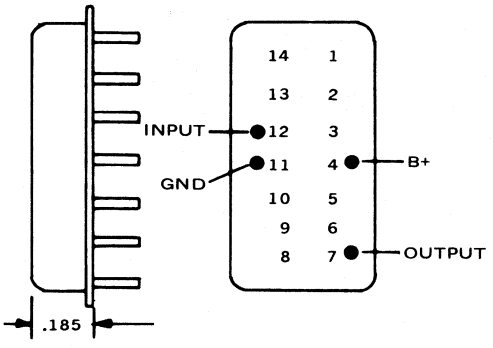


	A	B
PS139	.865	.750
PS139a	1.000	.890
PS139b	1.250	1.130

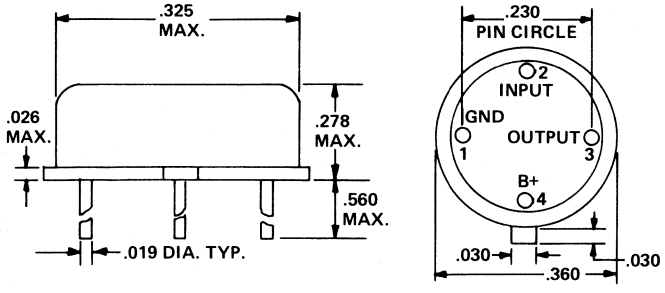
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

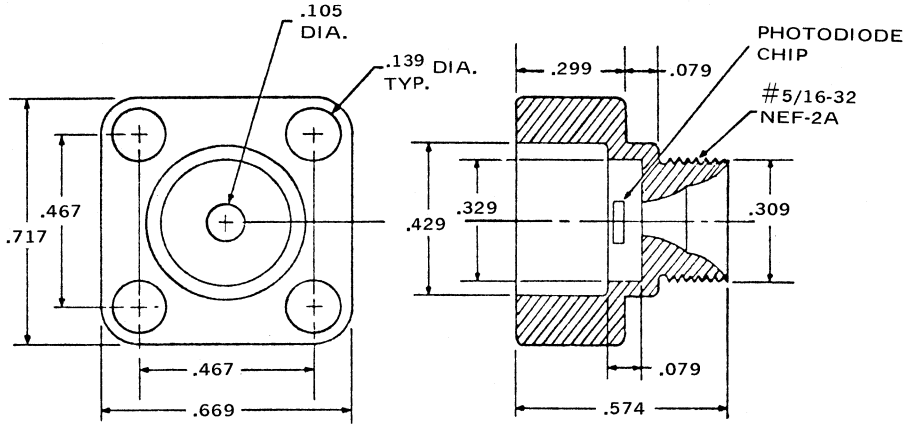
PS140



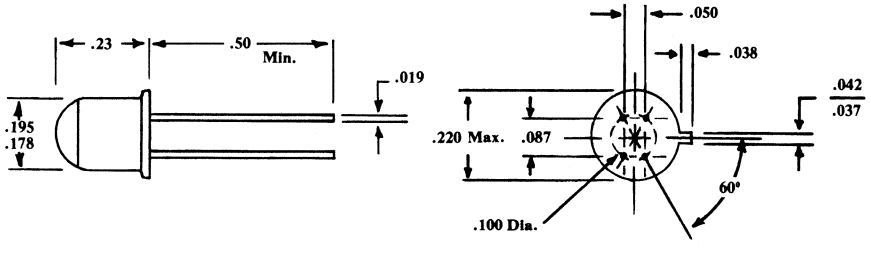
PS141



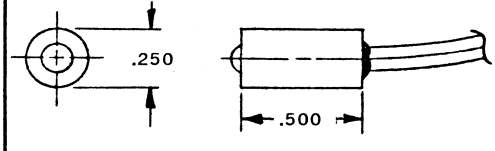
PS142



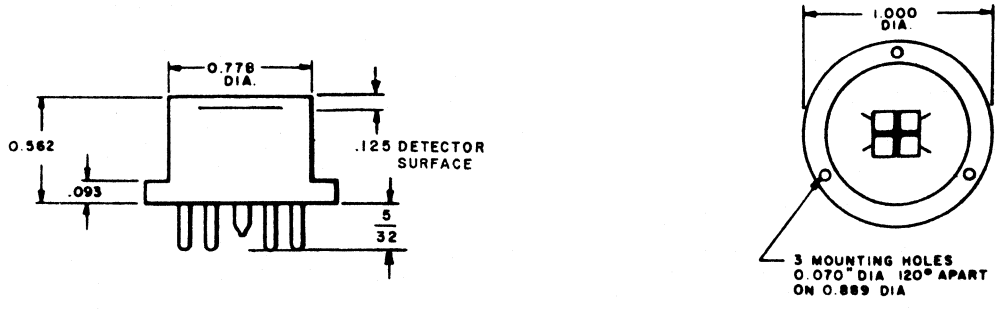
PS143



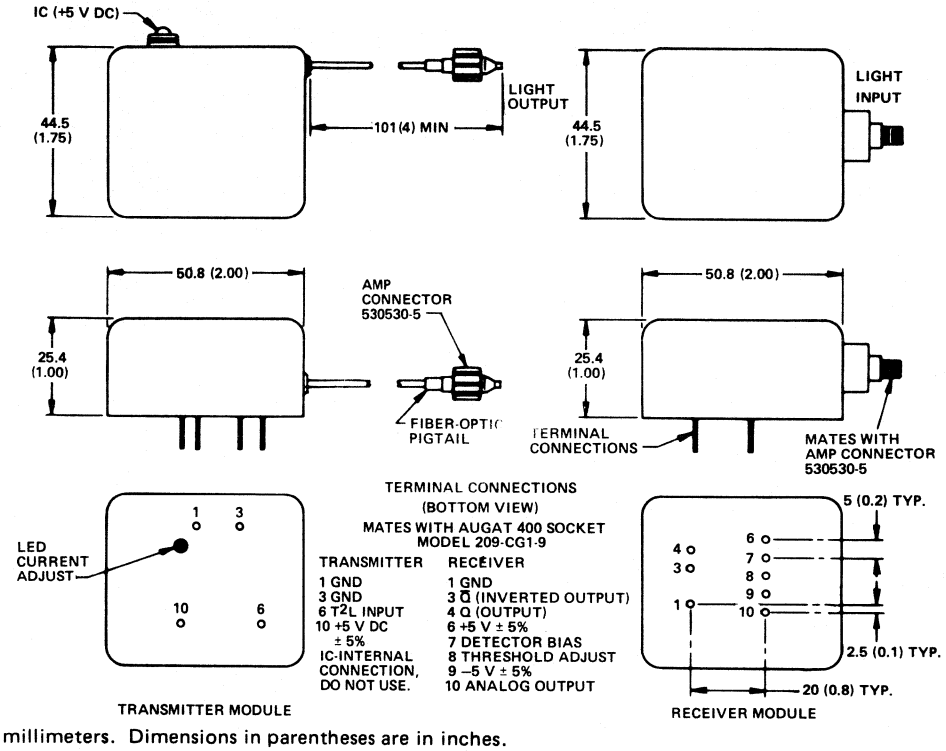
PS144



PS146

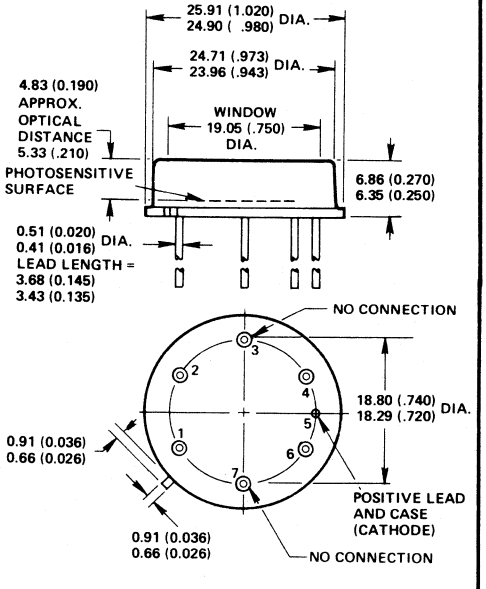


PS148

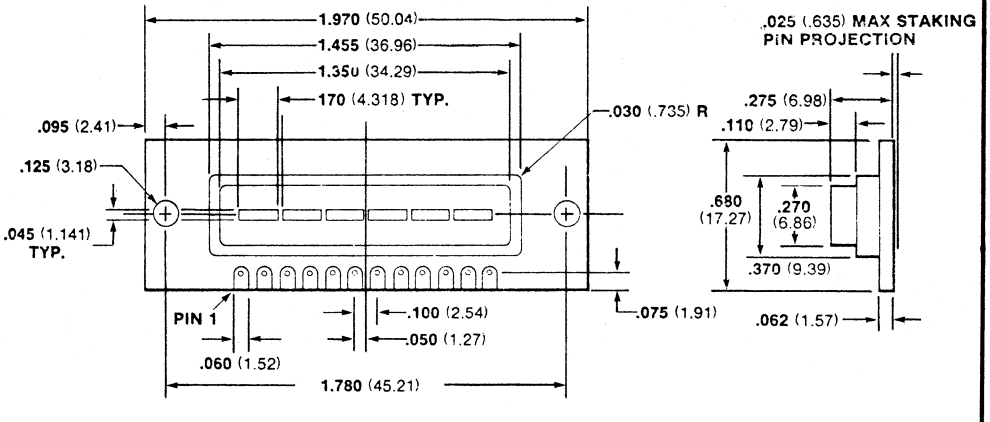


Dimensions in millimeters. Dimensions in parentheses are in inches.

PS149



PS150



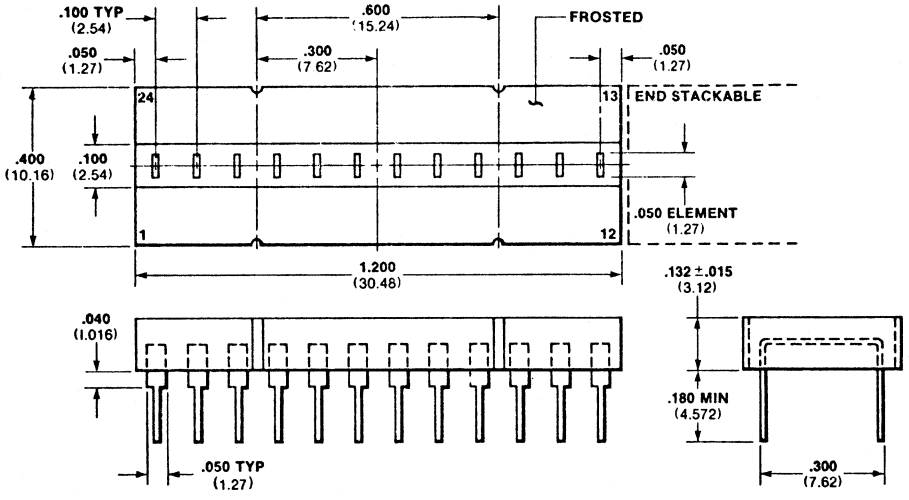
TOLERANCE ± .015

NOTE
1. All dimensions in inches (bold) and millimeters (parentheses)

49. OUTLINE DRAWINGS

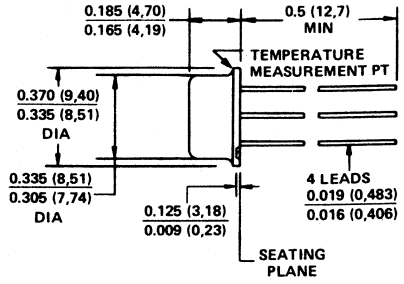
IN DRAWING NUMBER SEQUENCE

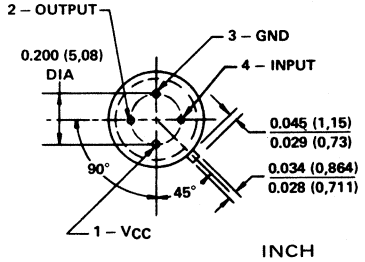
PS151



NOTE:
All dimensions in inches (bold) and millimeters (parentheses)
Tolerance ±.015

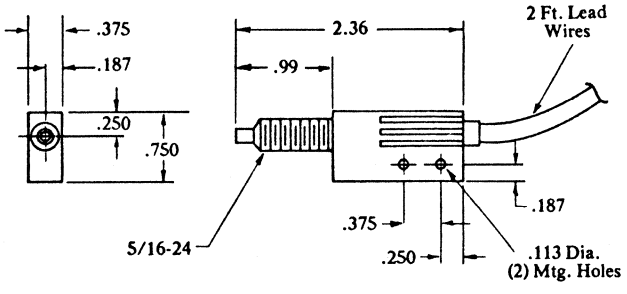
PS152



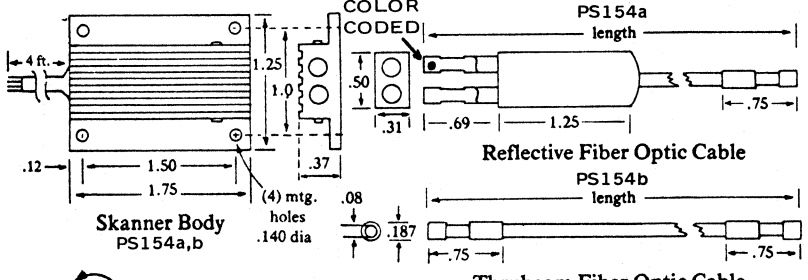


INCH
(MM)

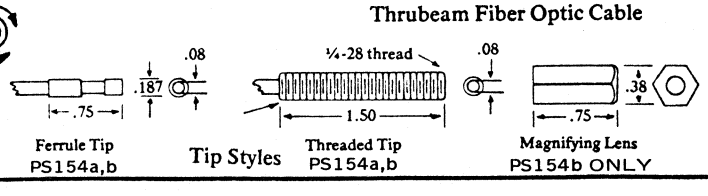
PS153



PS154



Caution: Fiber optic cables have a 1" bending radius but should NOT be twisted about their longitudinal axes. ⟶

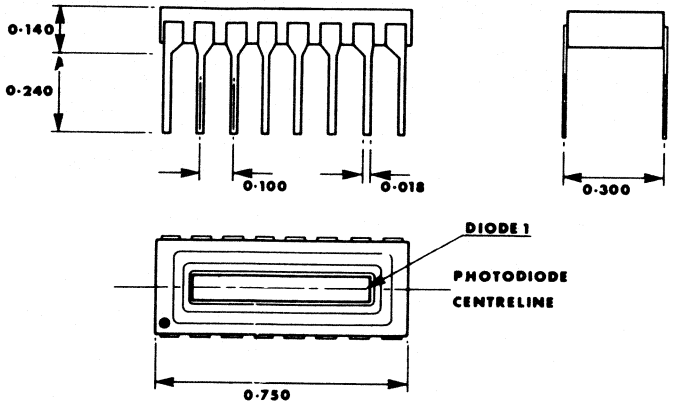


Tip Styles

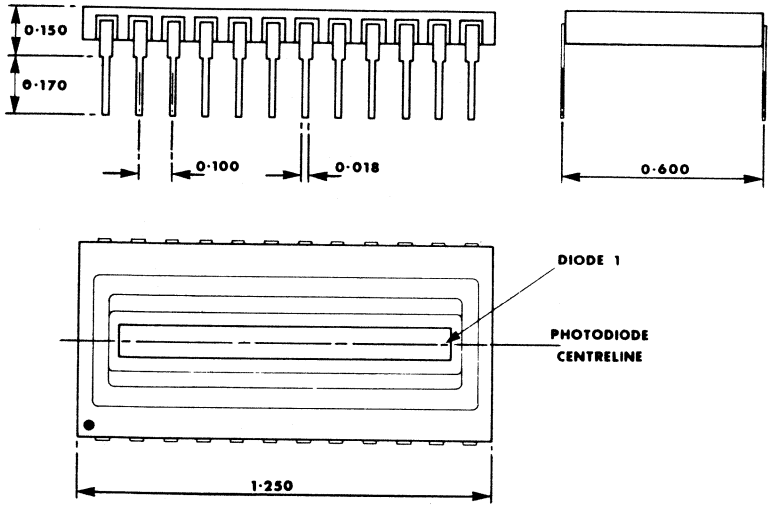
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

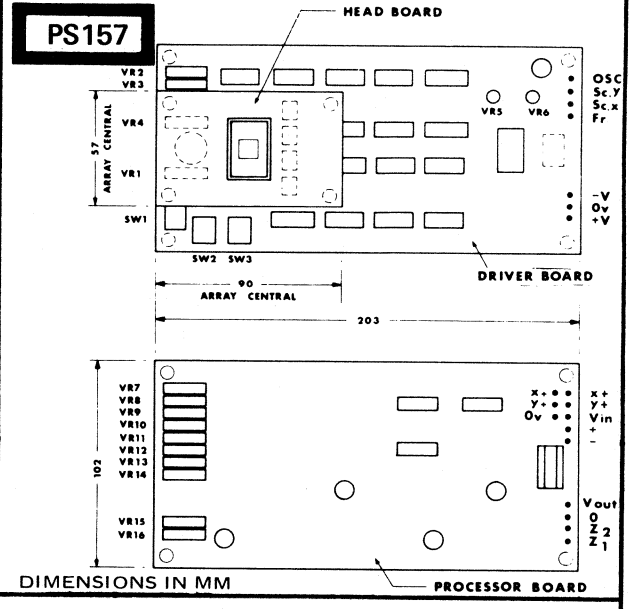
PS155



PS156

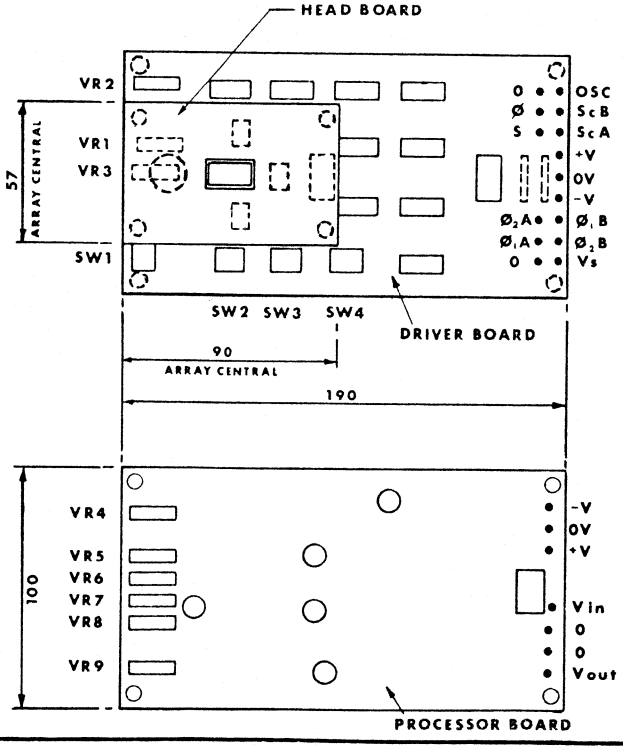


PS157



DIMENSIONS IN MM

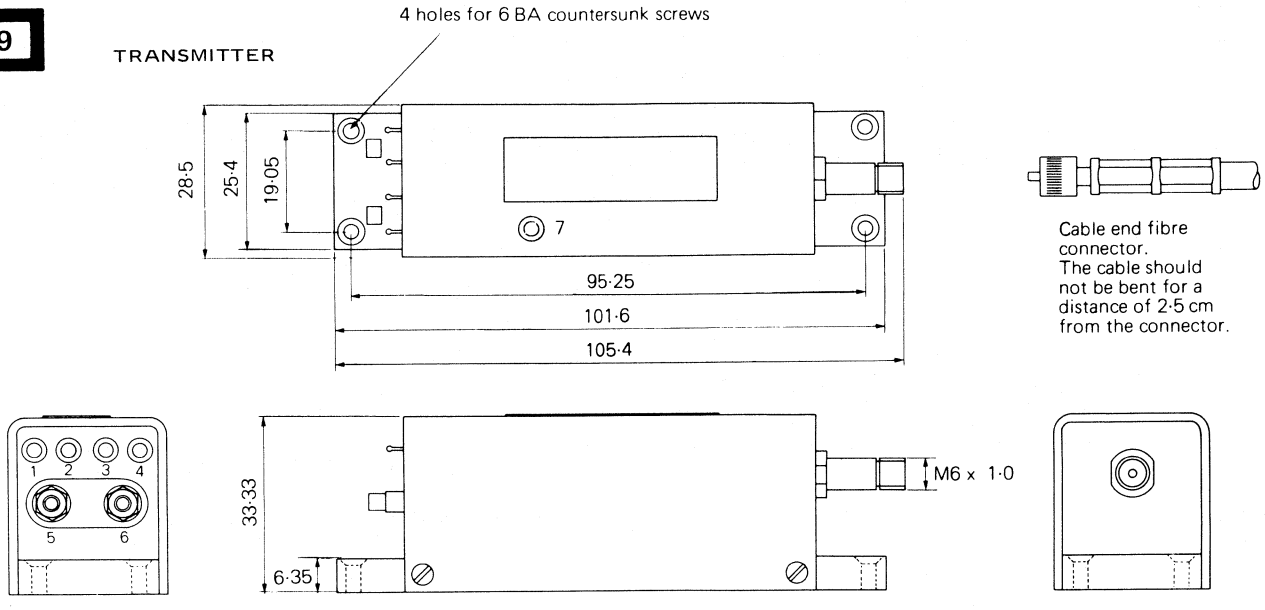
PS158



DIMENSIONS IN MM

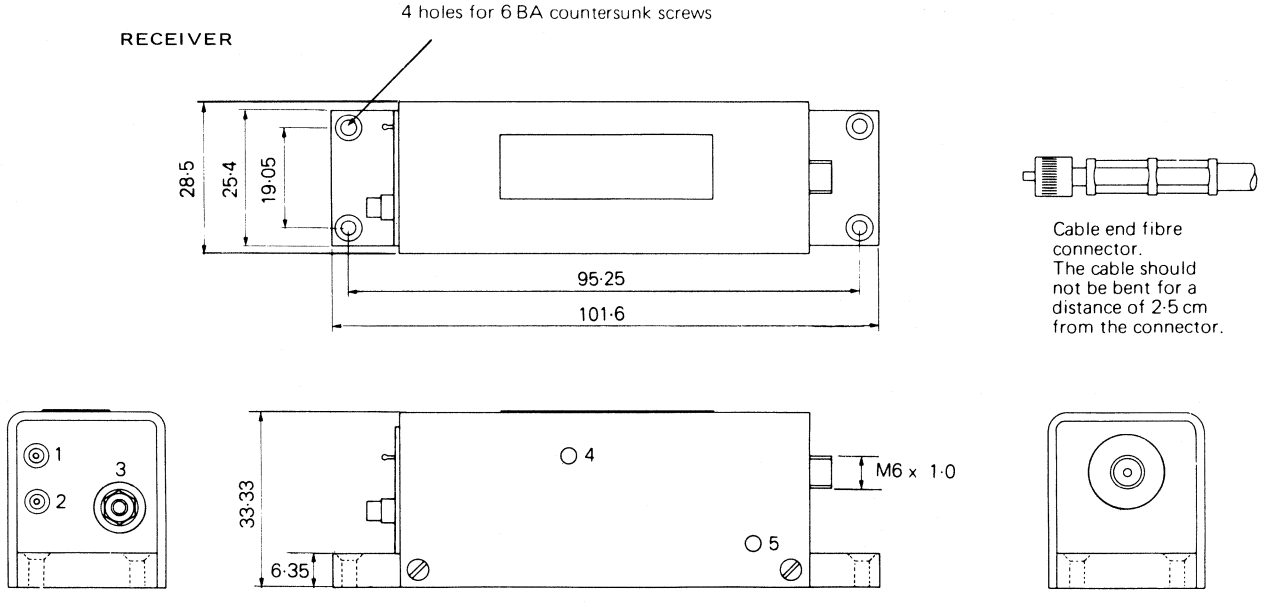
PS159

TRANSMITTER



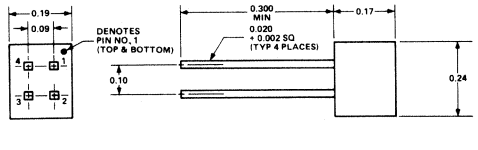
All dimensions are in mm

RECEIVER

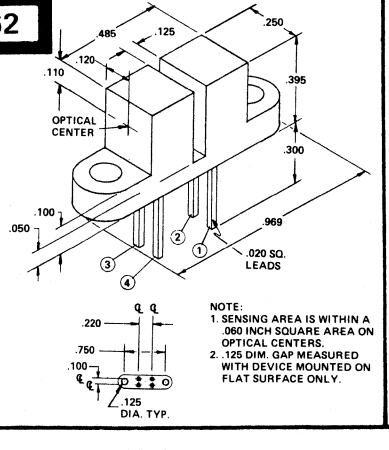


All dimensions are in mm.

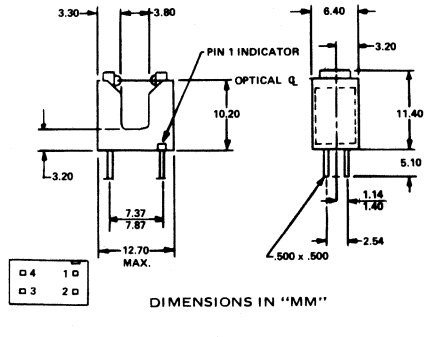
PS161



PS162



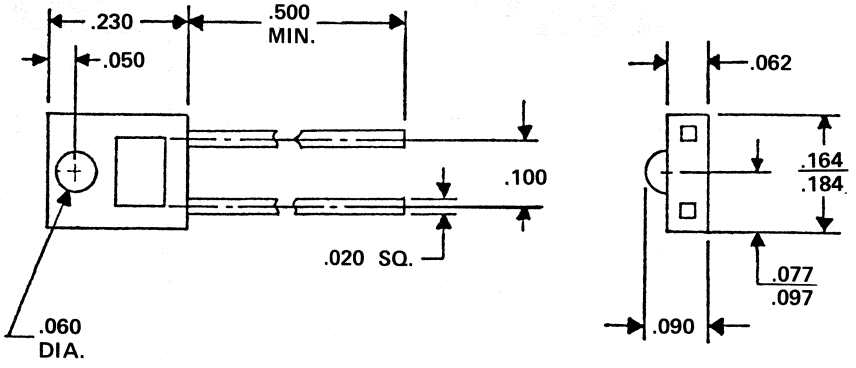
PS163



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PS164

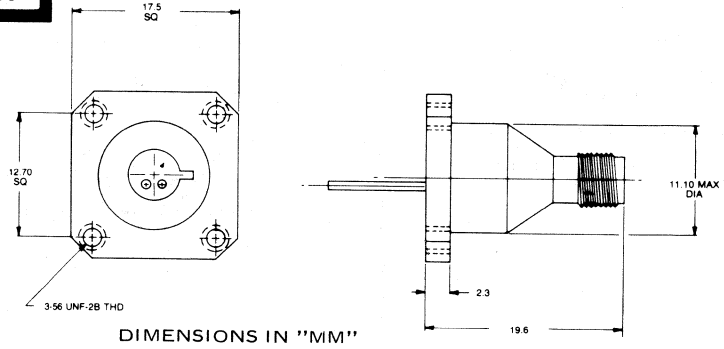


PS165

	Connector Type	Cable Lenght (meters)
PS165	905	30
PS165a	905	45
PS165b	905	60

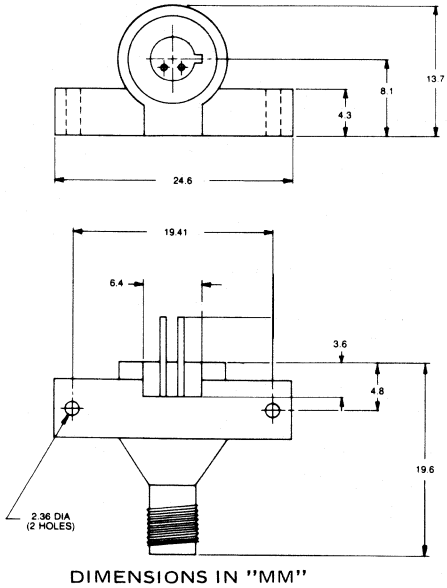
Transmitter: 10.5Wx9.5Lx5.2H(cm)
Receiver : 18.1Wx17.1ILx8.4H(cm)

PS167



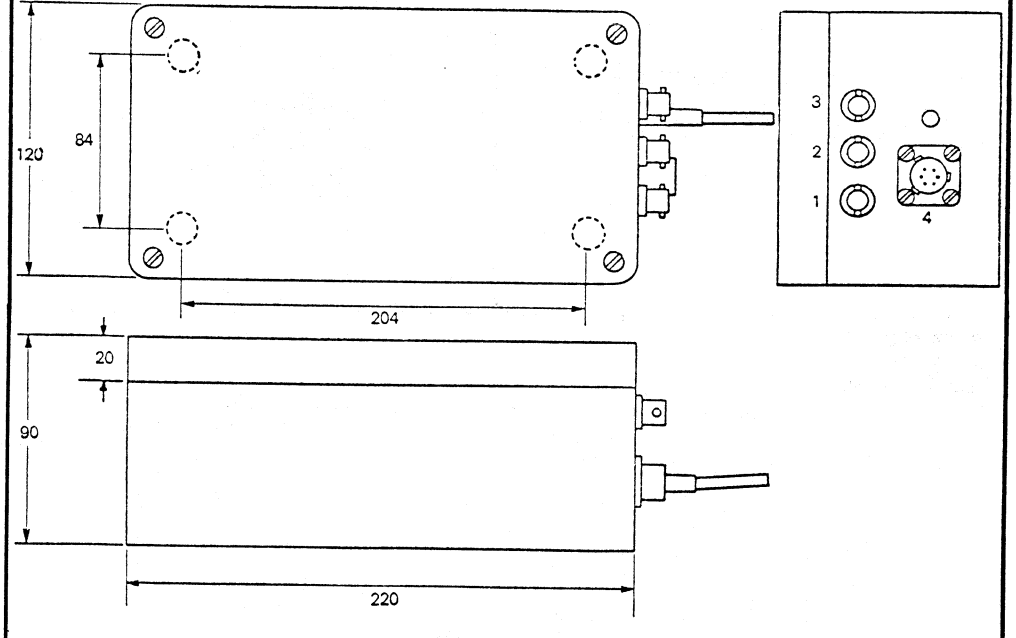
DIMENSIONS IN "MM"

PS168



DIMENSIONS IN "MM"

PS169

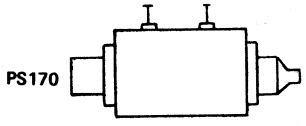


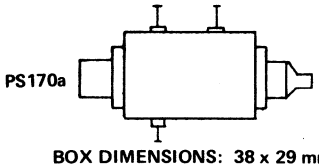
All dimensions are in mm.

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PS170

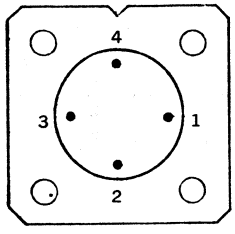




BOX DIMENSIONS: 38 x 29 mm

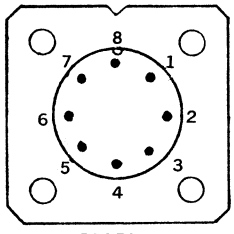
ELECTRICAL INTERFACE: BNC
OPTICAL INTERFACE: SMA

PS171



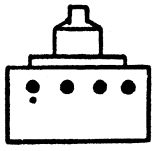
PS171

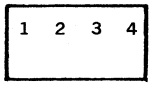
SMA FLANGE DIMENSION:
17.5 x 17.5 mm



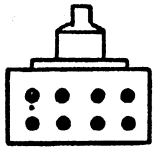
PS171a

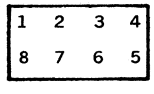
PS172





PS172





PS172a

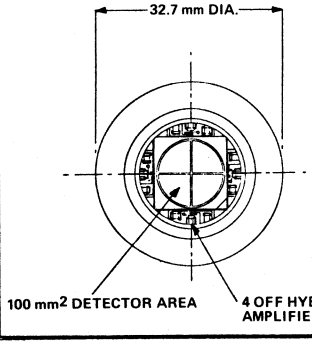
DIMENSION OF BASE OF SUPERDIP:
25 x 10 mm
PIN SPACING: STANDARD DUAL-IN-LINE.

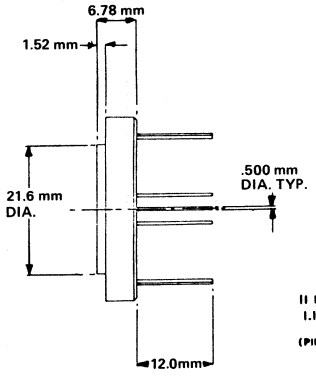
PS173

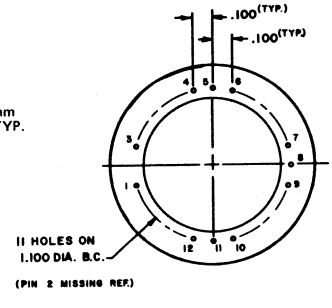
DIMENSIONS IN MM

	Length	Width	Height	Connector Type
PS173	103	78	66	SMA/BNC
PS173a	29	35	57	SMA

PS174

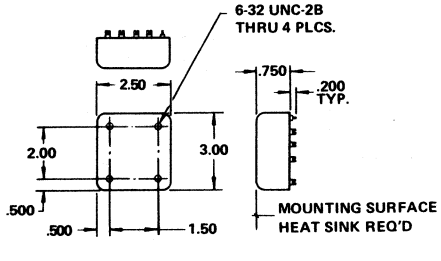


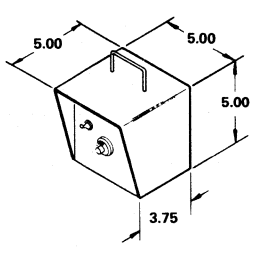


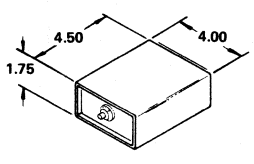


DIMENSIONS IN "MM"

PS175



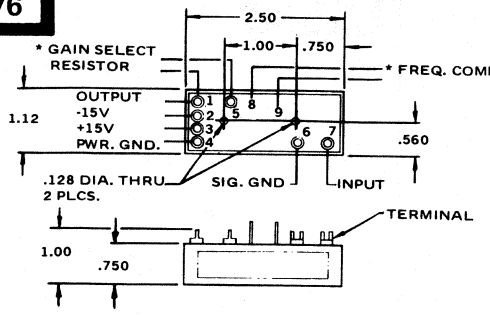




49. OUTLINE DRAWINGS

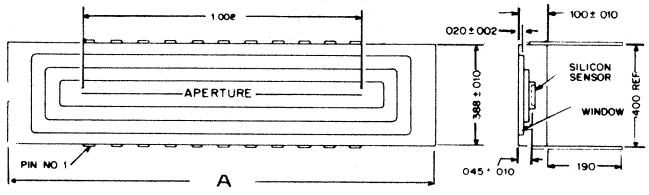
IN DRAWING NUMBER SEQUENCE

PS176



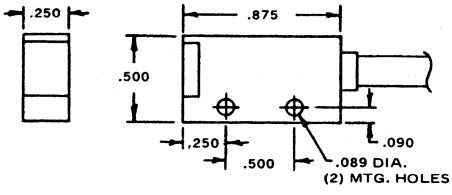
* GAIN
THE GAIN IS SELECTED BY THE RESISTANCE PLACED BETWEEN PIN 1 AND 5. MAXIMUM RECOMMENDED GAIN IS 1000.

PS177



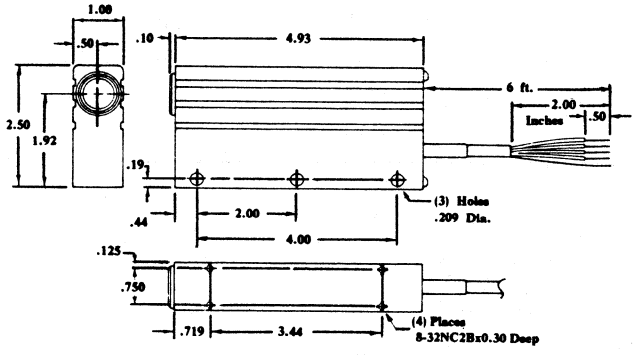
	A
PS177	1.10
PS177a	1.60

PS178

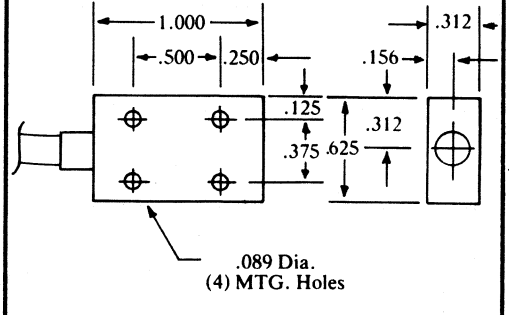


COLOR CODING: LED - BLUE (+), WHITE (—)
SENSOR — RED (+), BLACK (—)

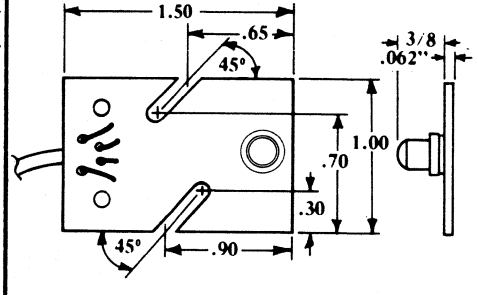
PS179



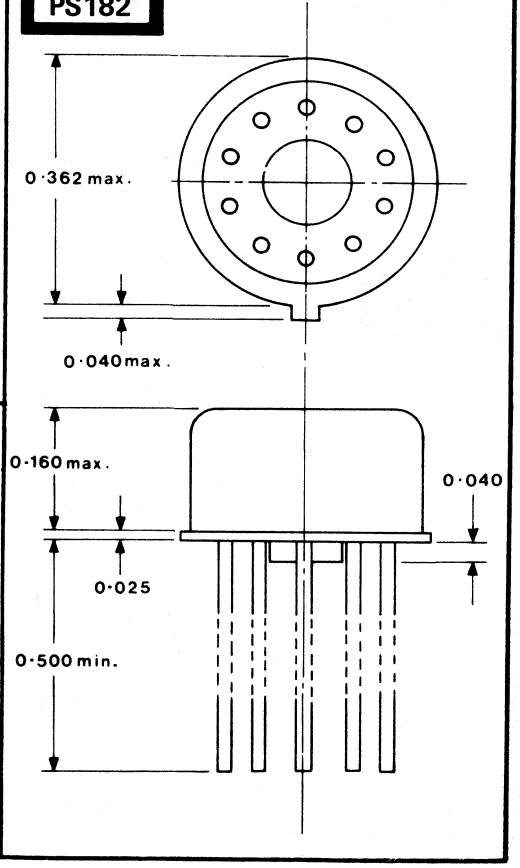
PS180



PS181

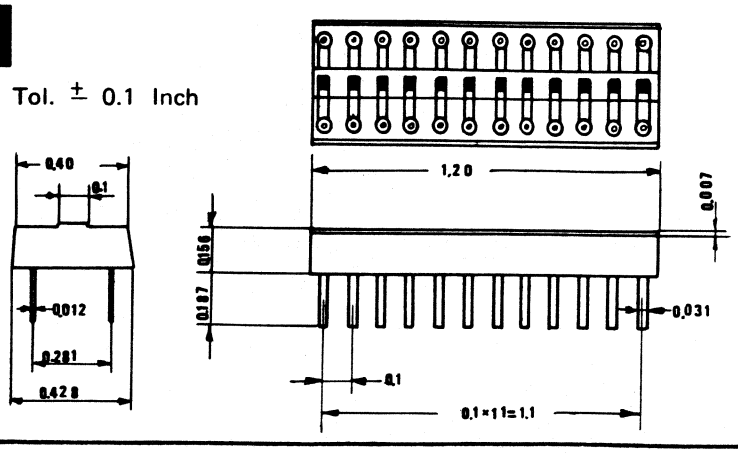


PS182



PS183

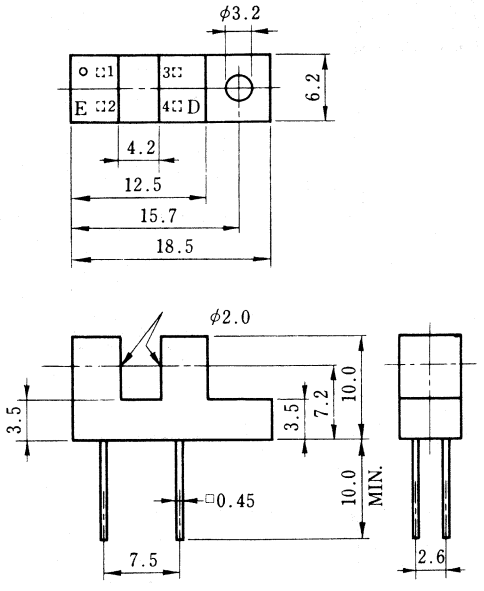
Tol. ± 0.1 Inch



49. OUTLINE DRAWINGS

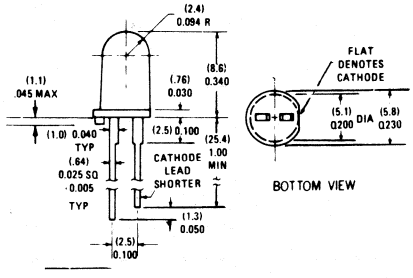
IN DRAWING NUMBER SEQUENCE

PS184



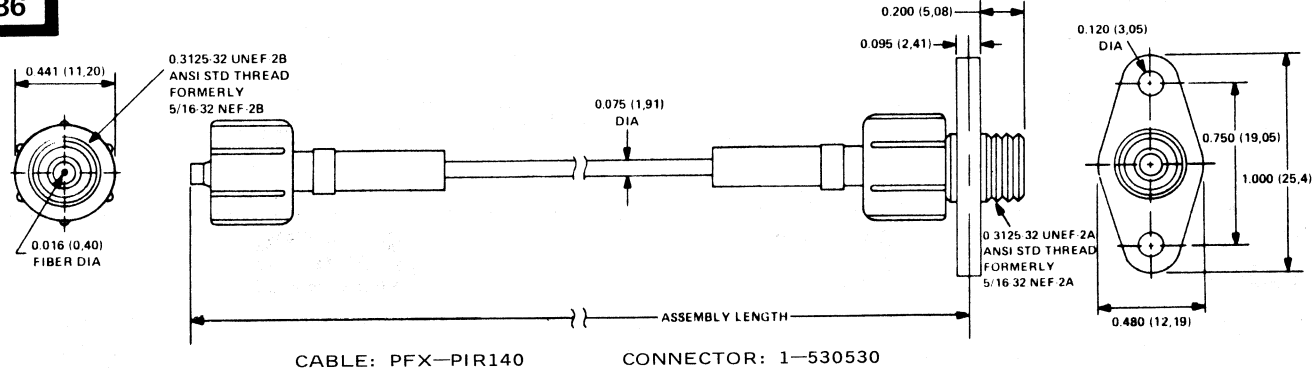
DIMENSIONS IN "MM"

PS185



(MM)
INCHES

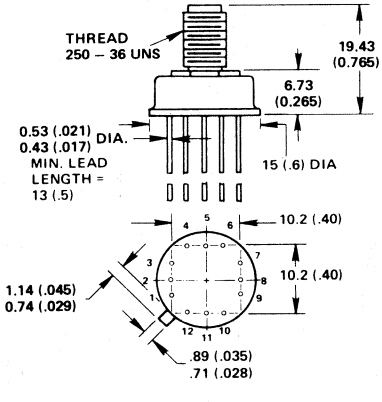
PS186

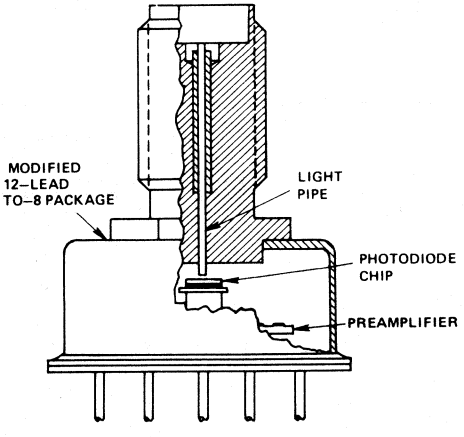


CABLE: PFX—PIR140 CONNECTOR: 1—530530

ALL DIMENSIONS ARE NOMINAL AND ARE SHOWN IN INCHES AND PARENTHETICALLY IN MILLIMETERS.

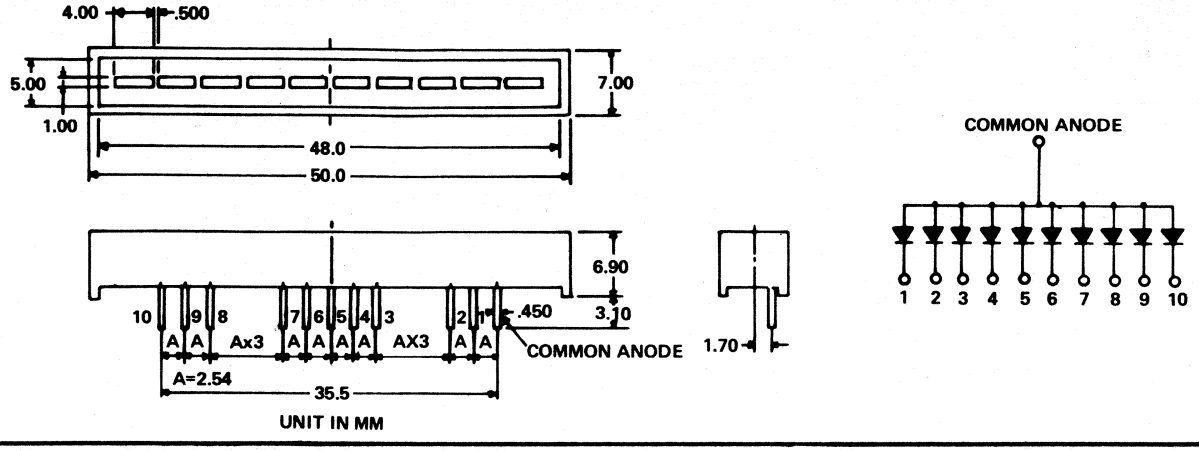
PS187





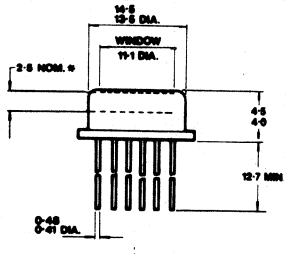
Dimensions in millimeters. Dimensions in parentheses are in inches.

PS188



UNIT IN MM

PS189

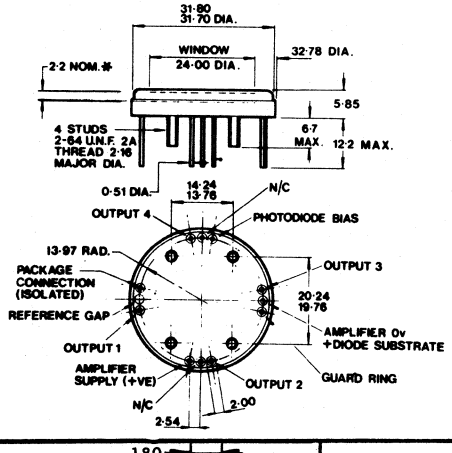


PIN	1	2	3	4	5	6	7	8
	CAN (ISOLATED)	+VE SUPPLY	−VE "	OUTPUT 1	GROUND	+VE SUPPLY	−VE "	OUTPUT 2

PIN	9	10	11	12	13	14	15	16
	CAN (ISOLATED)	+VE SUPPLY	−VE "	OUTPUT 3	GROUND	+VE SUPPLY	−VE "	OUTPUT 4

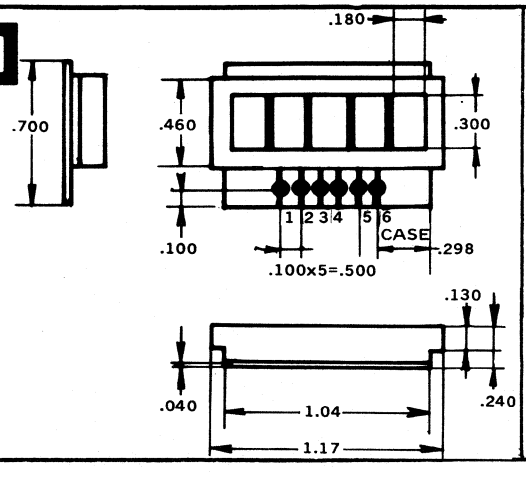
(all dimensions in mm) Dimension* refers to distance between window and active surface.

PS190

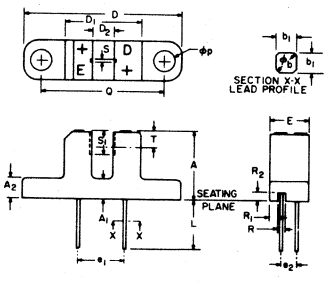


(all dimensions in mm) Dimension* refers to distance between window and active surface.

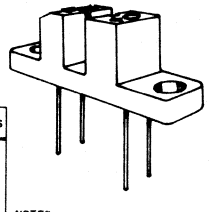
PS191



PS192



SYMBOL	MILLIMETERS MIN.	MILLIMETERS MAX.	INCHES MIN.	INCHES MAX.	NOTES
A	10.7	11.0	.422	.433	
A_1	3.0	3.2	.119	.125	
A_2	3.0	3.2	.119	.125	
øb	.600	.750	.024	.030	2
b_1	.50 NOM.		.020 NOM.		2
D	24.3	24.7	.957	.972	
D_1	11.6	12.0	.457	.472	
D_2	3.0	3.3	.119	.129	
e_1	6.9	7.5	.272	.295	
e_2	2.3	2.8	.091	.110	
E	6.15	6.35	.243	.249	
L	8.00		.315		
øp	3.2	3.4	.126	.133	
Q	18.9	19.2	.745	.755	
R	1.3 NOM.		.051 NOM.		
R_1	1.3 NOM.		.051 NOM.		
R_2	1.3 NOM.		.051 NOM.		
S	.85	1.0	.034	.039	
S_1	3.45	3.75	.136	.147	
T	2.6 NOM.		.103 NOM.		3

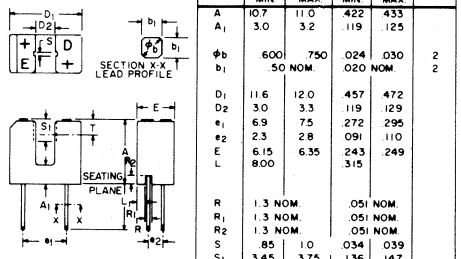


NOTES:
1. INCH DIMENSIONS ARE DERIVED FROM MILLIMETERS.
2. FOUR LEADS. LEAD CROSS SECTION IS CONTROLLED BETWEEN 1.27 MM (.050") FROM SEATING PLANE AND THE END OF THE LEADS.
3. THE SENSING AREA IS DEFINED BY THE "S" DIMENSION AND BY DIMENSION "T" ±0.75 MM (±.030 INCH).

49. OUTLINE DRAWINGS

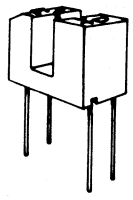
IN DRAWING NUMBER SEQUENCE

PS193

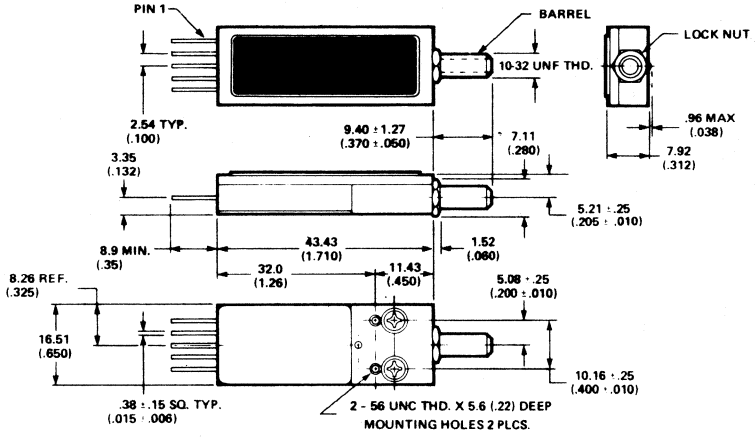


SYMBOL	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX	NOTES
A	10.7	11.0	.422	.433	
A_1	3.0	3.2	.119	.125	
ϕb	.600	.750	.024	.030	2
b_1	.50 NOM.		.020 NOM.		2
D_1	11.6	12.0	.457	.472	
D_2	3.0	3.3	.119	.129	
e_1	6.9	7.5	.272	.295	
e_2	2.3	2.8	.091	.110	
E	6.15	6.35	.243	.249	
L	8.00		.315		
R	1.3 NOM.		.051 NOM.		
R_1	1.3 NOM.		.051 NOM.		
R_2	1.3 NOM.		.051 NOM.		
S	.85	1.0	.034	.039	
S_1	3.45	3.75	.136	.147	
T	2.6 NOM.		.103 NOM.		3

NOTES:
1. INCH DIMENSIONS ARE DERIVED FROM MILLIMETERS.
2. FOUR LEADS. LEAD CROSS SECTION IS CONTROLLED BETWEEN 1.27 MM (.050") FROM SEATING PLANE AND THE END OF THE LEADS.
3. THE SENSING AREA IS DEFINED BY THE "S" DIMENSION AND BY DIMENSION "T" ±0.75 MM (±.030 INCH).



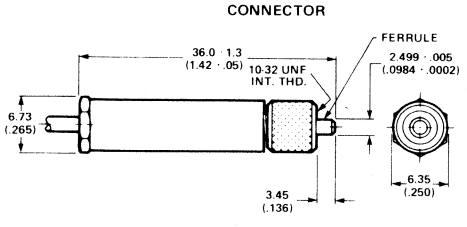
PS194



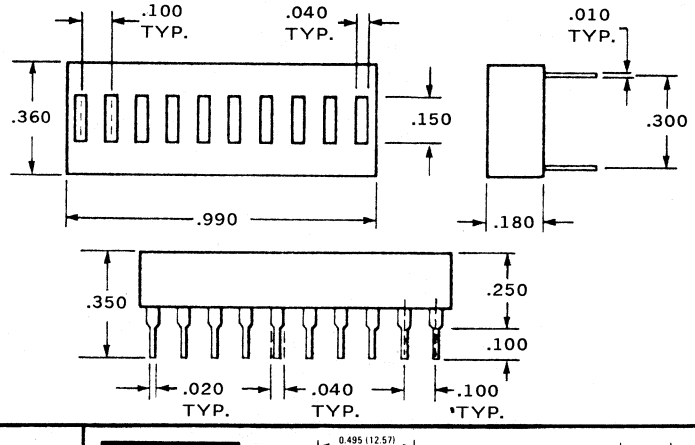
NOTES:
1. DIMENSIONS IN mm (INCHES)
2. UNLESS OTHERWISE SPECIFIED THE TOLERANCE ON ALL DIMENSIONS IS ±.38mm (±.015")

WARNING:
1. LOCK NUT AND BARREL SHOULD NOT BE DISTURBED.
2. SCREWS ENTERING THE 2-56 THREADED MOUNTING HOLES MUST NOT TOUCH BOTTOM.
3. THE HFBR-3001 TO -3005 CONNECTOR SHOULD NOT BE TIGHTENED BEYOND THE LIMITS SPECIFIED IN THE HFBR-3001 TO -3005 DATA SHEET.

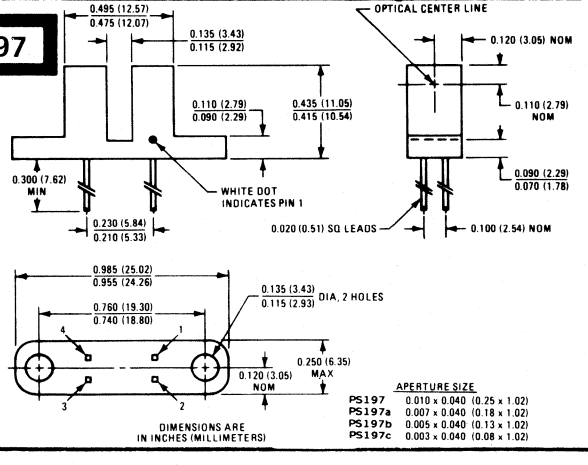
PS195



PS196



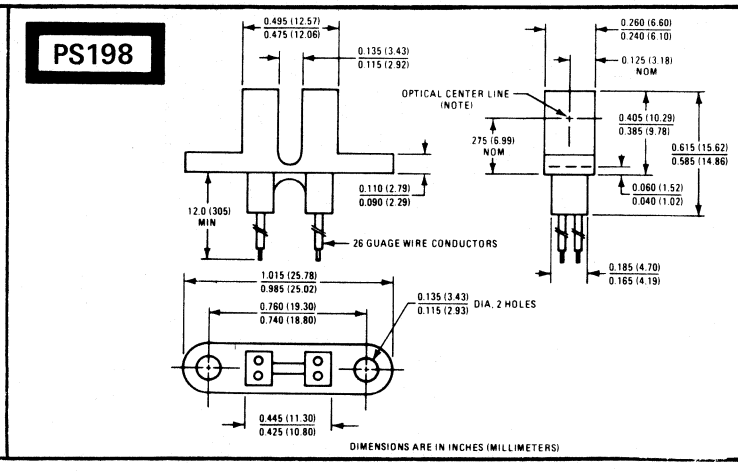
PS197



APERTURE SIZE

PS197	0.010 x 0.040 (0.25 x 1.02)
PS197a	0.007 x 0.040 (0.18 x 1.02)
PS197b	0.005 x 0.040 (0.13 x 1.02)
PS197c	0.003 x 0.040 (0.08 x 1.02)

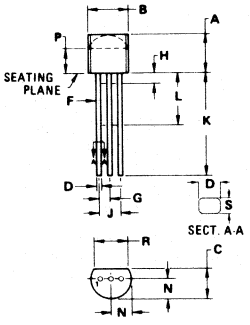
PS198



49. OUTLINE DRAWINGS

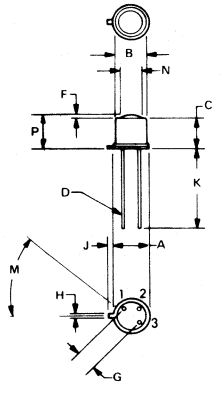
IN DRAWING NUMBER SEQUENCE

PT1



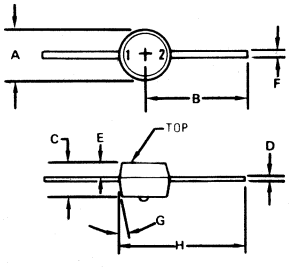
DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	4.32	5.33	0.170	0.210
B	4.44	5.21	0.175	0.205
C	3.18	4.19	0.125	0.165
D	0.41	0.56	0.016	0.022
F	0.41	0.48	0.016	0.019
G	1.14	1.40	0.045	0.055
H	–	2.54	–	0.100
J	2.41	2.67	0.095	0.105
K	12.70	–	0.500	–
L	6.35	–	0.250	–
N	2.03	2.92	0.080	0.115
P	2.92	–	0.115	–
R	3.43	–	0.135	–
S	0.36	0.41	0.014	0.016

PT2



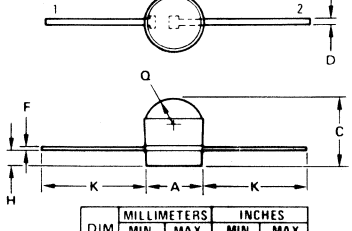
	A	B	C	D	F	G	H	J	K	L	N	P
PT2	.209	.178	.180	.016	.020	.100	.039	.033	.500	45°	.132	.200
	.230	.195	.210	.019	.040	TP	.046	.048	MIN	MIN	.158	.250
PT2a	.209	.178	.200	.016	.020	.100	.039	.033	.500	45°	.132	.220
	.230	.195	.250	.019	.040	BSC	.046	.048	MIN	MIN	.158	.290
PT2b	.224	.188		.019		.100			.511		.157	.244
PT2c	.224	.188		.019		.100			.511		.157	.267
PT2d	.210	.179	.187	.019		.098	.039	.039	1.500	45°		
	.230	.190	.205									
PT2e	.212		.196			.100			.551			
PT2f	.207	.180		.016		.100	.036	.033	.500	45°	.120	.220
	.213	.188		.019			.046	.046	MIN			.260
PT2g	.209	.178		.016		.100	.036	.028	.500	45°		.225
	.230	.195		.019			.046	.048	MIN			.245
PT2h	.209	.178		.016		.100	.036	.036	.750	45°		.225
	.230	.195		.019			.046	.046	MIN			MAX
PT2j	.209	.178	.170	.016	.010	.100	.036	.028	.500	45°	.110	.180
	.230	.195	.210	.019	.020		.046	.048	MIN			.230
PT2k	.228	.188		.018		.099	.045	.046	.499	45°		.271
	MAX	MAX		MAX			MAX	MAX	MIN			MAX
PT2m	.209	.178	.180	.016	.020	.100	.039	.500		.137		
	.230	.195	.210	.019	.038		.046	MIN		.143		
PT2n	.209	.178	.170	.016		.100	.036	.028	.500	45°		
	.230	.195	.210	.019			.046	.048	MIN			
PT2p	.210	.185		.017		.088			.492			.212
	.216	MAX				.111			.570			.236
PT2q	.209	.178	.291	.016		.100			.500			
	.230	.195	TYP	.019					MIN			
PT2r	.230	.195	.270	.016		.090	.043	.043	1.500	42°	.195	
	MAX	MAX	MAX	.019		.110	MAX	MAX	MIN	48°	MAX	
PT2s	.209	.178	.170	.016		.100	.036	.028	.500	45°	.120	.170
	.230	.195	.210	.019			.046	.048	MIN			.240
PT2t	.224	.185	.141	.017	.000	.098	.039	.039	.787	45°	.118	
	MAX											
PT2u	.224	.185	.177	.017	.090	.098	.039	.039	.787	45°	.185	.267
	MAX											

PT4



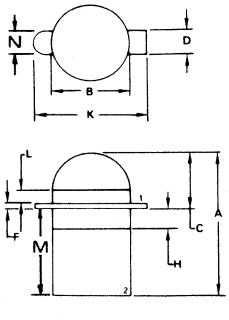
DIM	INCHES MIN	INCHES MAX	MILLIMETERS MIN	MILLIMETERS MAX
A	0.078	0.092	1.98	2.34
B	0.160		4.06	
C	0.048	0.058	1.22	1.47
D	0.004	0.006	0.102	0.152
E	0.020	0.030	0.508	0.762
F	0.010	0.016	0.254	0.406
G	3°	7°	3°	7°
H	0.213 REF		5.41 REF	

PT5



DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	3.56	4.06	0.140	0.160
C	4.57	5.33	0.180	0.210
D	0.33	0.48	0.013	0.019
F	0.23	0.28	0.009	0.011
H	1.02	1.27	0.040	0.050
K	6.35	–	0.250	–
Q	1.91 NOM		0.075 NOM	

PT6

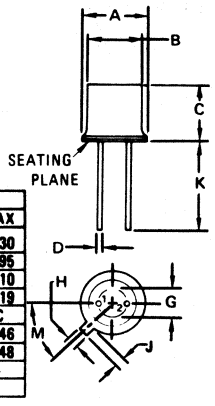


	A	B	C	D	F	H	K	L	M	N
PT6	.100	.058	.028	.016	.005	.019	.083	.008		
	.130	.062	.040	.024	.010	.021	.093	.012		
PT6a	.124	.058	.042	.016	.005	.019	.084			
	.135	.061	.047	.024	.010	.021	.092			
PT6b	.102	.058		.016	.005		.084			
	.118	.062		.024	.010		.094			
PT6c	.101	.062	.022	.015	.005	.018	.083			
	.114	MAX	.026	.023	.009	.020	.092			
PT6d	.109	.060			.007		.088		.085	.020
PT6e	.128	.060			.005		.088		.085	.020

49. OUTLINE DRAWINGS

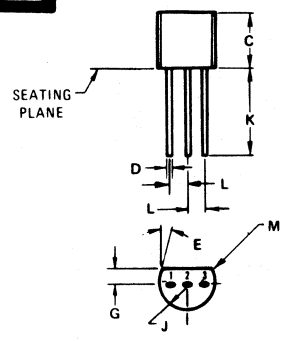
IN DRAWING NUMBER SEQUENCE

PT7



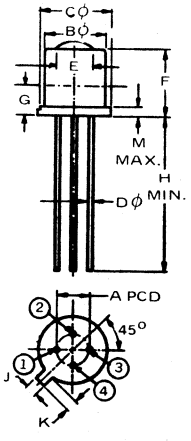
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	5.31	5.84	0.209	0.230
B	4.52	4.95	0.178	0.195
C	4.57	5.33	0.180	0.210
D	0.41	0.48	0.016	0.019
G	2.54 BSC		0.100 BSC	
H	0.99	1.17	0.039	0.046
J	0.84	1.22	0.033	0.048
K	12.70	–	0.500	–
M	45° BSC		45° BSC	

PT8



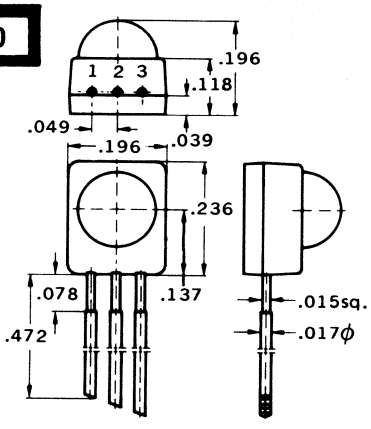
DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
C	0.175	0.185	4.450	4.700
D	0.016	0.019	0.407	0.482
E	5° NOM		5° NOM	
G	0.045	0.055	1.150	1.390
J	0.085	0.095	2.160	2.420
K	0.500	–	12.700	–
L	0.050 TP		1.270 TP	
M	0.003	0.013	0.076	0.330

PT9

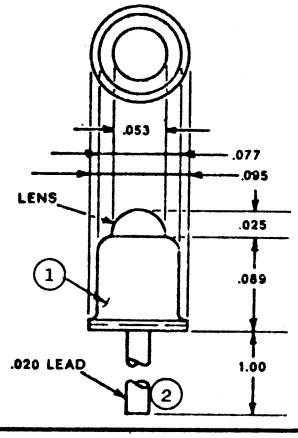


	A	B	C	D	E	F	G	H	J	K	M
PT9	.100	.188	.224	.019	.157	.267	.104	.511			
PT9a	.098	.179	.210	.019		.169		1.496	.039	.039	.027
		.190	.230			.208					
PT9b	.100	.178	.209	.016		.200		.500	.036	.028	.030
		.195	.230	.019		.225		MIN	.046	.048	MAX
PT9c	.090	.195	.230	.016	.195	.270		1.500	.043	.043	.015
	.110	MAX	MAX	.019	MAX	MAX		MIN	MAX	MAX	MAX

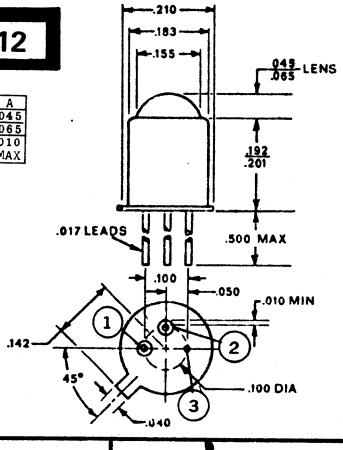
PT10



PT11

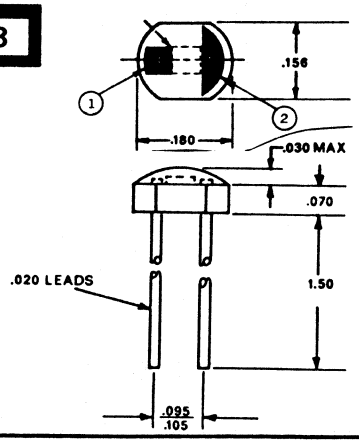


PT12

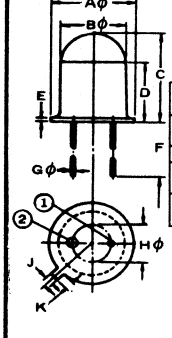


	A
PT12	.045 .065
PT12a	.010 MAX

PT13

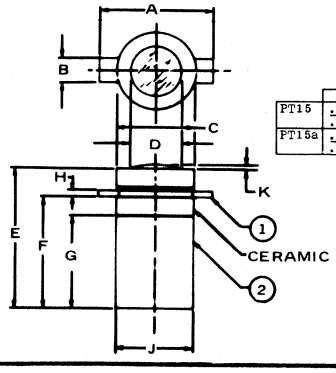


PT14



	A	B	C	D	E	F	G	H	J	K
PT14	.209	.163		.094		1.50			.036	.033
	.212	.168		.103		MIN			.046	.048
PT14a	.228	.177	.275	.177	.019	.499	.017	.099	.039	.039
	MAX	.185	MAX			MIN				
PT14b	.211	.181	.260	.177		.512	.018	.098	.039	.039
PT14c	.209	.178	.205	.170	.030	.500	.016	.100	.036	.028
	.230	.195	.275	.210	MAX	MIN	.019	TYP	.046	.048
PT14d	.217	.165	.118	.082	.008	.500	.018	.100	.039	.039
				MAX		MIN				

PT15

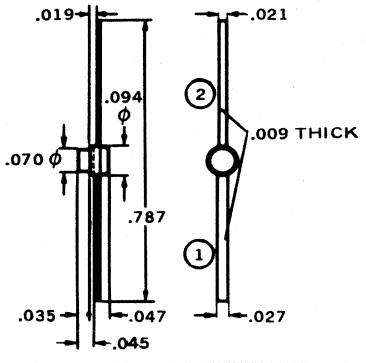


	A	B	C	D	E	F	G	H	J	K
PT15	.083	.020	.057	.035	.100	.083	.075	.005	.057	.005
	.093		.063	.045	.120	.097			.063	MAX
PT15a	.082	.015	.055		.122	.078	.059		.055	
	.098	.023	.062			.090	.066		.062	

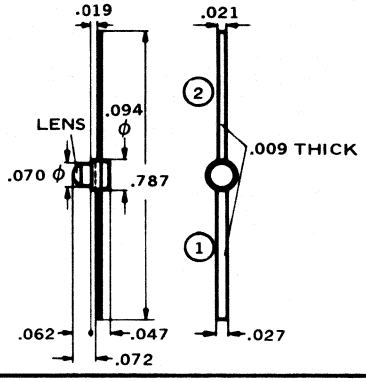
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

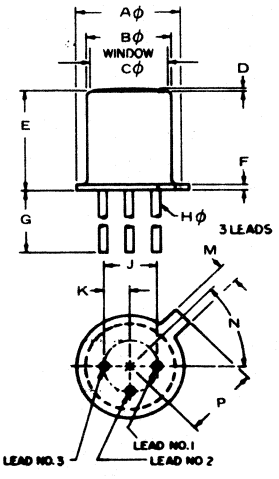
PT16



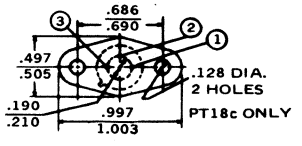
PT17



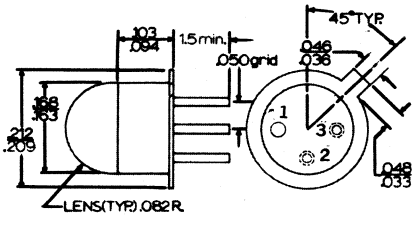
PT18



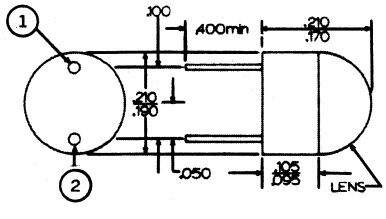
	A	B	C	D	E	F	G	H	J	K	M	N	P
PT18	.205 .215	.176 .190	.150 .160	.010 MAX	.190 .210	.025 MAX	.500 MIN	.016 .019	.100	.050	.035 .045	45°	.137 .147
PT18a	.207 .213	.180 .188	.155		.195 .220	.018 .024	.500 MIN	.016 .019	.100	.050	.036 .046	45°	.136 .146
PT18b,c	.370 MAX	.335 MAX	.218		.240 .260		1.500 MIN	.016 .019	.190 .210	.080 .105	.027 .035	42° 48°	
PT18d	.209 .230	.178 .195			.170 MAX	.040 MAX	1.500 MIN	.016 .019	.100	.050	.036 .046	45°	
PT18e	.228 MAX	.188 MAX			.208 MAX		.499 MAX	.018 MAX	.099	.049	.045 MAX	45°	
PT18f	.210 .216	.185 MAX			.192 .204		.492 .570	.017	.088 .111				
PT18g	.210 .225	.180 .195			.195 .205	.020 MAX	.500 MAX	.016 .019	.090 .110	.045 .055	.038 .046	40° 50°	
PT18h	.230 MAX	.195 MAX			.270 MAX	.015 MAX	1.500 MIN	.016 .019	.090 .110	.045 .055	.043 MAX	42° 48°	
PT18j	.209 .230	.178 .195			.170 .210	.030 MAX	.500 MIN	.016 .019	.100	.050	.036 .046	45°	
PT18k	.212	.185			.196		.551		.100				
PT18m	.209 .230	.178 .195			.170 .210	.020 MAX	.500 MIN	.016 .019	.090 .110	.045 .055	.036 .046	40° 50°	
PT18n	.211	.181			.177		.500	.018	.100		.039	42° 48°	



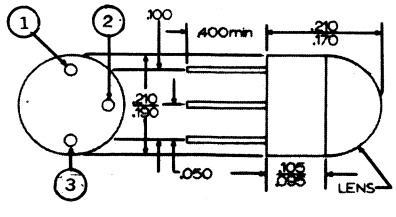
PT19



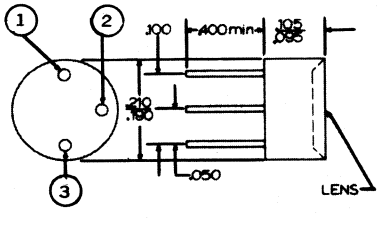
PT20



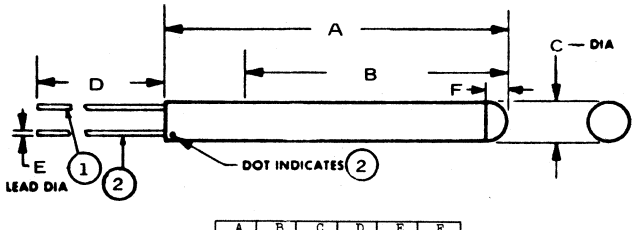
PT21



PT22



PT23

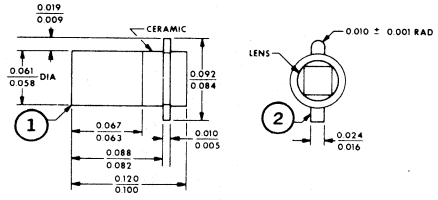


	A	B	C	D	E	F
PT23	.500 .600	.400	.076 .085	1.50 MIN	.009 .011	
PT23a	.500 .600	.076 .082	.076 .085	1.50 MIN	.009 .011	
PT23b	.354 .511	.275 .314	.070 .098	.984 MIN	.015	.055

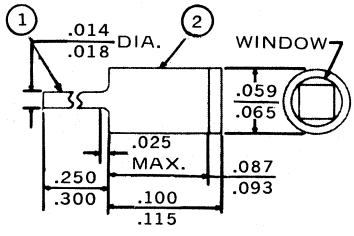
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

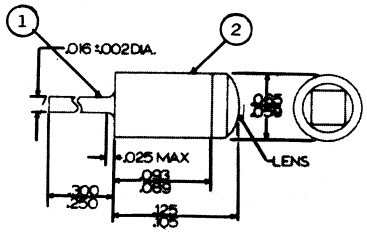
PT24



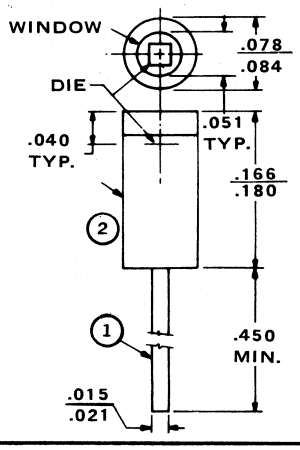
PT25



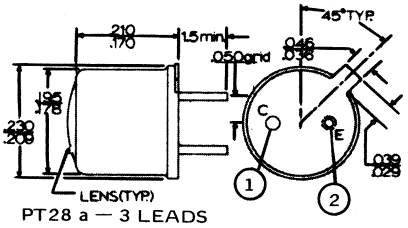
PT26



PT27

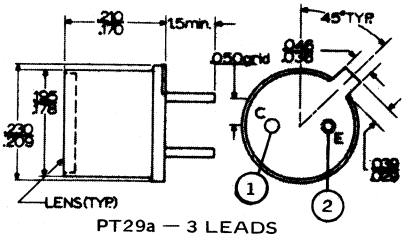


PT28



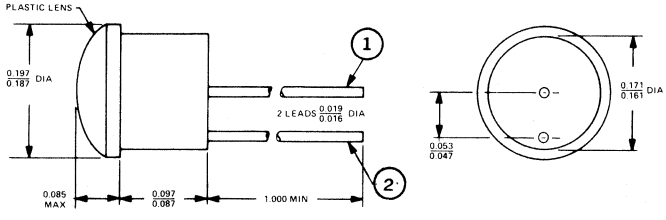
PT28 a — 3 LEADS

PT29

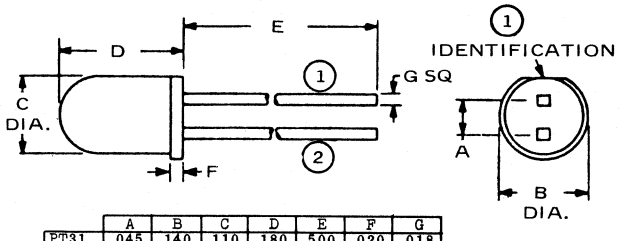


PT29a — 3 LEADS

PT30

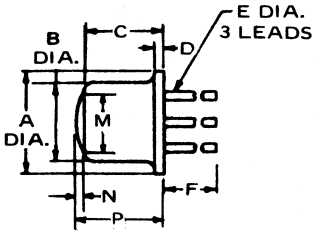


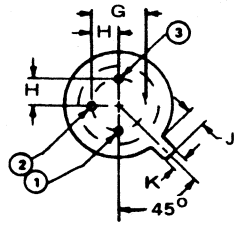
PT31



	A	B	C	D	E	F	G
PT31	.045 .060	.140 .160	.110 .130	.180 .210	.500 MIN	.020 .040	.018 .024
PT31a	.045 .055	.140 .160	.110 .130	.180 .210	.500 MIN	.020 .040	.018 .024
PT31b	.050	.155	.120	.215	.500 MIN	.025	.020

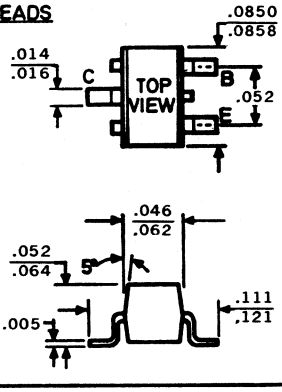
PT32



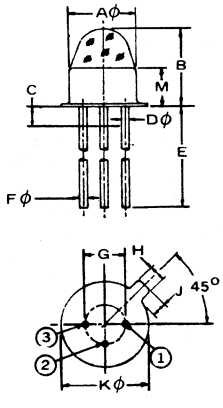


	A	B	C	D	E	F	G	H	J	K	M	N	P
PT32	.209 .230	.178 .195	.170 .210	.030 MAX	.016 .019	.500 MIN	.100	.050	.028 .048	.036 .046	.125 MIN	.070	
PT32a	.209 .230	.178 .195	.170 .210	.030 MAX	.016 .019	.500 MIN	.100	.050	.028 .048	.036 .046	.140 MIN	.010	
PT32b	.335 .370	.305 .335	.240 .260		.016 .019	1.50 MIN	.200	.100	.029 .045	.028 .034			
PT32c	.210 .225	.180 .195	.195 .205	.020 MAX	.016 .019	.500 MIN	.090 .110	.045 .055	.033 .048	.038 .046		.060	
PT32d	.205 .210	.176 .190	.190 .210	.025 MAX	.016 .019	.500 MIN	.100	.050		.035 .045	.136 .158	.030 .050	
PT32e	.209 .230	.178 .195	.170 .210	.030 MAX	.016 .019	.500 MIN	.100	.050	.028 .048	.036 .046			
PT32f	.210	.165				.551	.100						.078 MAX
PT32g	.212	.190	.202	.015	.018	.500	.100		.048	.045	.125	.040	
PT32h	.209 .230	.180 .190	.170 .210	.030 MAX	.016 .019	.500 MIN	.100	.050	.028 .048	.036 .046	.125 MIN	.070	
PT32j	.209 .230	.180 .190	.170 .210	.030 MAX	.016 .019	.500 MIN	.100	.050	.028 .048	.036 .046	.140 MIN	.010	
PT32k	.209 .230	.178 .195	.170 .210	.030 MAX	.016 .019	.500 MIN	.100	.050	.028 .048	.036 .046		.020	
PT32m	.209 .230	.178 .195	.170 .210		.016 .019		.100	.050	.028 .048	.036 .046	.150 .160		
PT32n	.224 MAX	.181 .188	.177		.017	.787			.039	.039			.251
PT32p	.209 .230	.178 .195	.170 .210	.020 MAX	.016 .019	.500 MIN	.090 .110	.045 .055	.028 .048	.036 .046		.060 MAX	
PT32q	.208 .232	.177 .196		.031 MAX	.016 .019	.500 MIN	.098		.027 .047	.035 .047			.224 .255

PT33

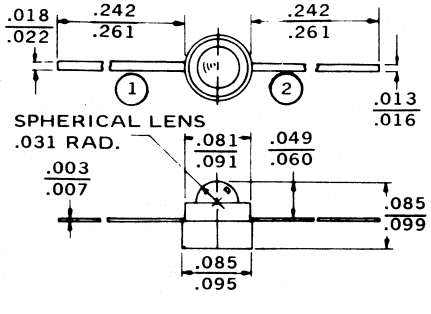


PT34

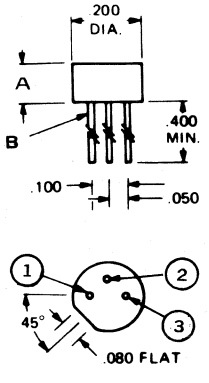


	A	B	C	D	E	F	G	H	J	K	M
PT34	.160 .170	.196 MAX	.051 MAX	.039 MAX	.499 MIN	.017 .021	.099	.039	.035	.200 .216	
PT34a	.161 .173	.177 MAX			.499 MIN	.018 MAX	.099	.045 MAX	.046 MAX	.228 MAX	
PT34b	.169	.157			.492 .570	.017	.088 .111			.210 .222	.106 .110
PT34c	.185				.551		.100			.212	.196
PT34d	.177 .185	.275 MAX		.017	.499 MIN	.017	.098	.039	.039	.228 MAX	.177
PT34e	.165	.150			.500		.100			.200	.100

PT35

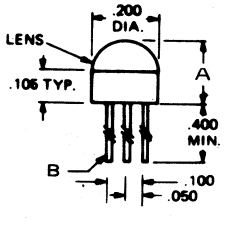


PT36



	A	B
PT36	.100 .126	.016 .022
PT36a	.100 .136	.016 .022
PT36b	.100 .125	.016 .019
PT36c	.095 .115	.017 .019

PT37

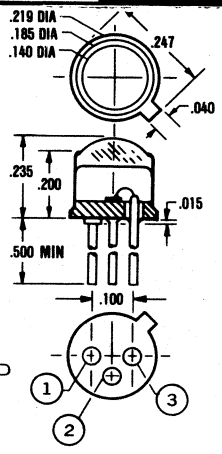


	A	B
PT37	.140 .210	.016 .022
PT37a	.120 .220	.016 .022
PT37b	.190 .210	.016 .019
PT37c	.190 .210	.016 .022

49. OUTLINE DRAWINGS

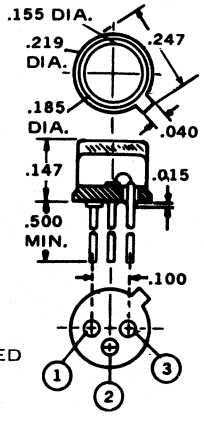
IN DRAWING NUMBER SEQUENCE

PT38



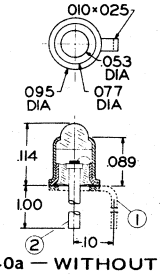
PT38a: PIN 2 NOT CONNECTED

PT39



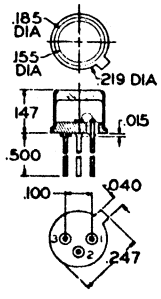
PT39a: PIN 2 NOT CONNECTED

PT40

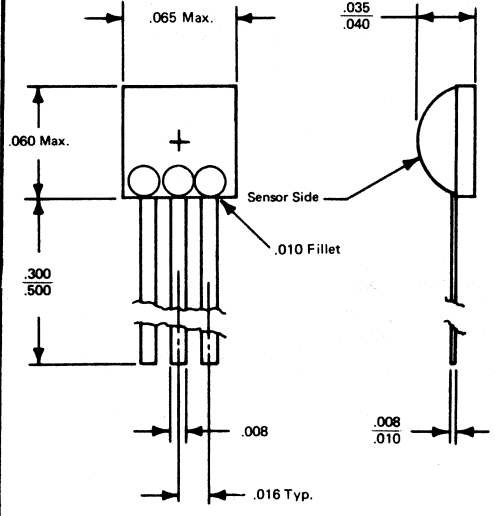


PT40a — WITHOUT TAB

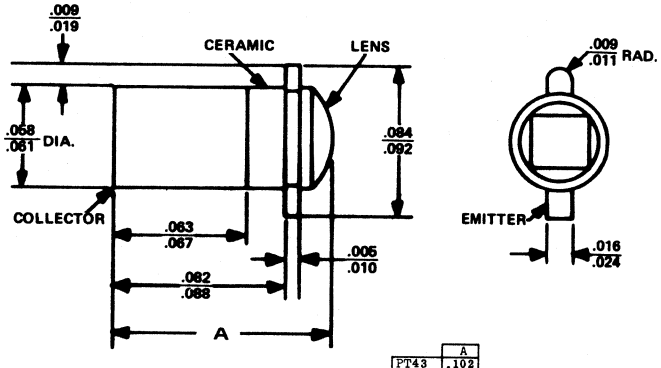
PT41



PT42

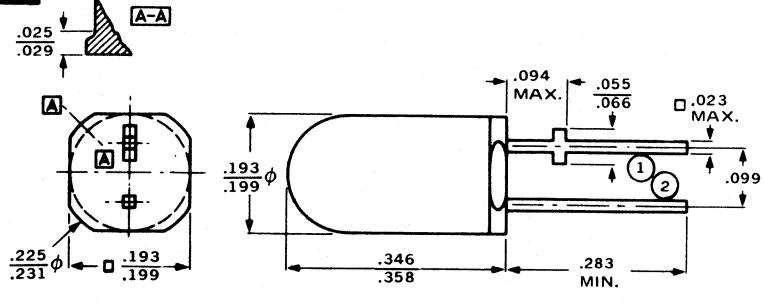


PT43

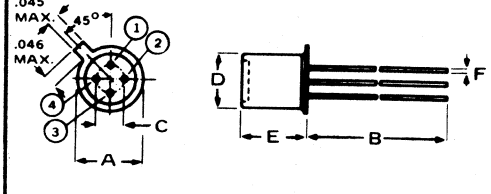


	A
PT43	.102 / .125
PT43a	.102 / .115

PT45



PT46

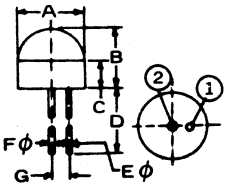


	A	B	C	D	E	F
PT46	.228 MAX	.499 MIN	.099	.188 MAX	.208 MAX	.018 MAX
PT46a	.208 .216	1.456 1.535	.099	.188 MAX	.208 MAX	.018 MAX
PT46b	.230 MAX	1.500 MIN	.090 .110	.195 MAX	.270 MAX	.016 .019

49. OUTLINE DRAWINGS

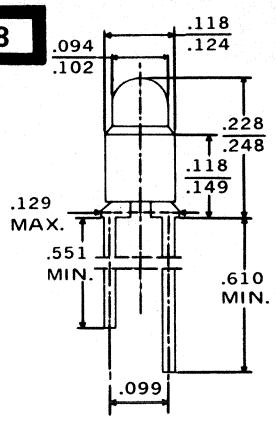
IN DRAWING NUMBER SEQUENCE

PT47

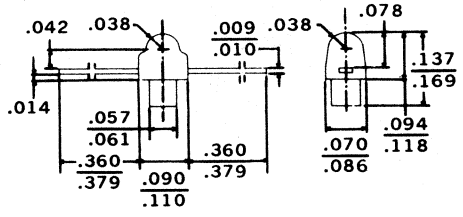


	A	B	C	D	E	F	G
PT47	.106 .129	.157 MAX	.078	.433 MIN	.011	.017	.035
PT47a	.120	.161	.081	.531	.010	.020	.040
PT47b	.114 MAX	.137 MAX	.078	.547	.011	.017	.031

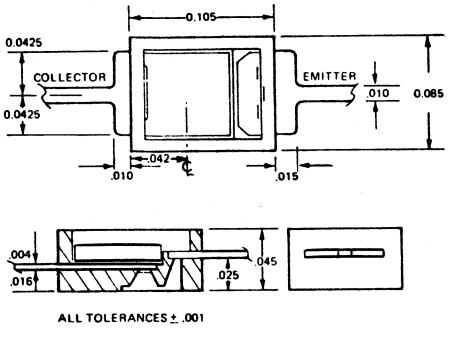
PT48



PT49

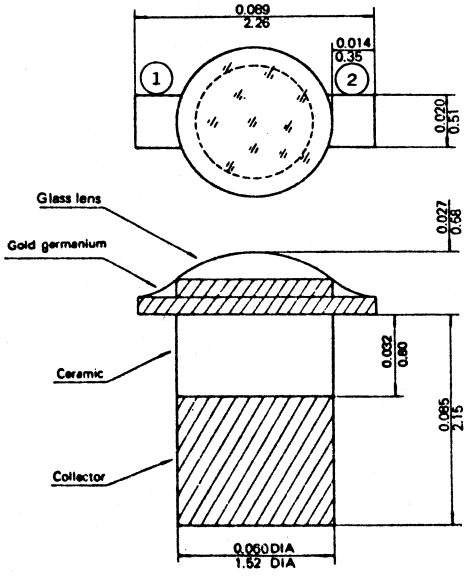


PT50

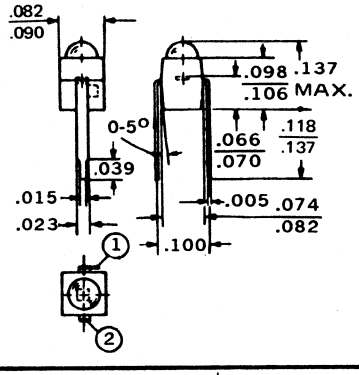


ALL TOLERANCES ± .001

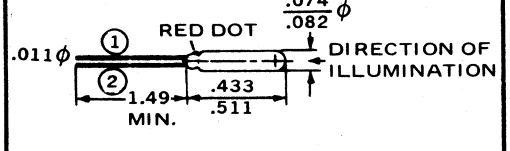
PT51



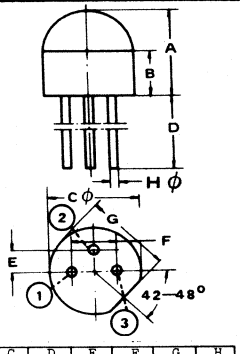
PT54



PT55

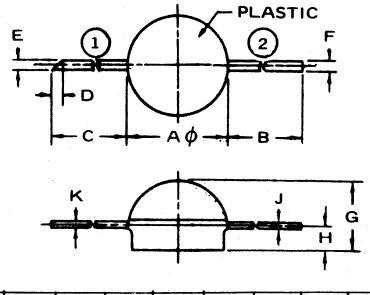


PT56



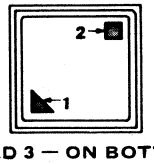
	A	B	C	D	E	F	G	H
PT56	.197 MAX	.100 .108	.200	.500 MIN	.043 .055	.092 .104	.183 .194	.010
PT56a	.125 .200	.095 .115	.192 .203	.400 .600	.047 .052	.095 .115		.010
PT56b	.200		.210	.500 MIN		.100		.020

PT60



	A	B	C	D	E	F	G	H	J	K
PT60	.149Ø MIN	.157 MIN	.157 MIN	.013	.020 .035	.020 .035	.129 MAX	.027	.003	.003
PT60a	.149Ø	.177	.236 MIN	.013	.024	.024	.130 MAX	.028	.010	.010

PT63

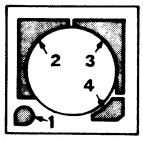


LEAD 3 — ON BOTTOM OF CHIP

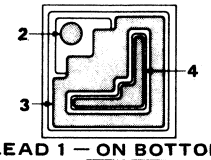
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PT64

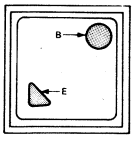


PT65

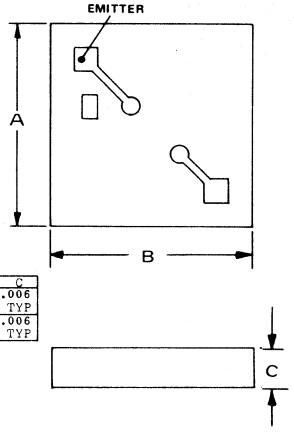


LEAD 1 — ON BOTTOM OF CHIP

PT66

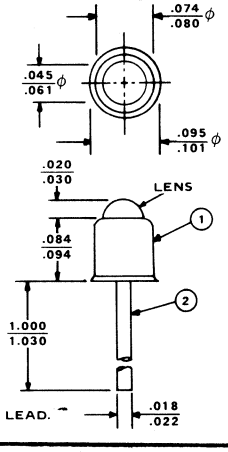


PT67



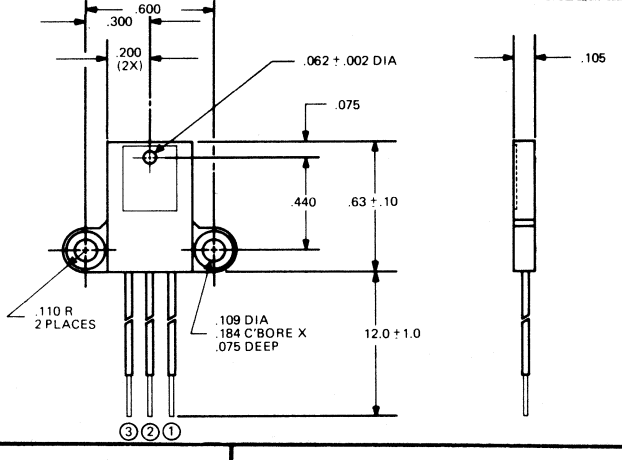
	A	B	C
PT67	.025	.025	.006 TYP
PT67a	.040	.040	.006 TYP

PT68

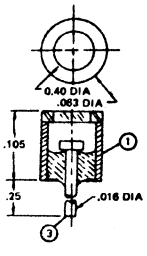


PT68a —HAS A SECOND LEAD.

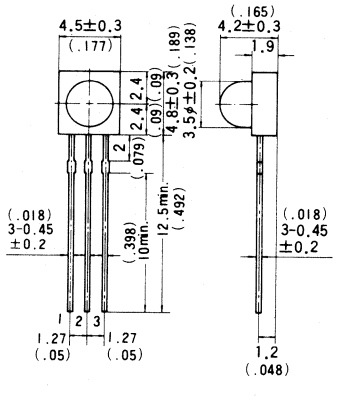
PT69



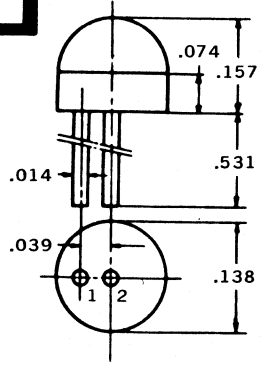
PT71



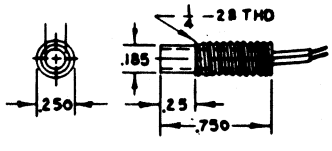
PT72



PT74



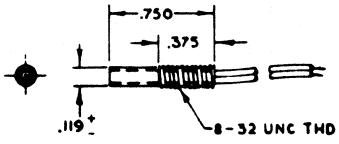
PT76



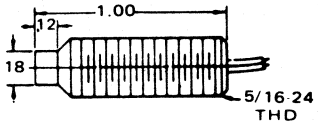
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

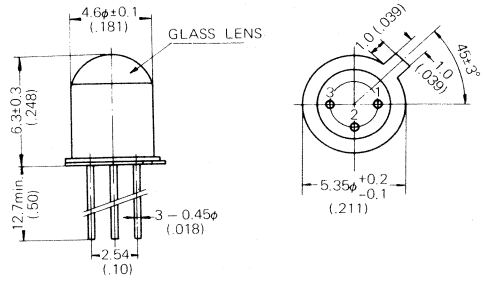
PT77



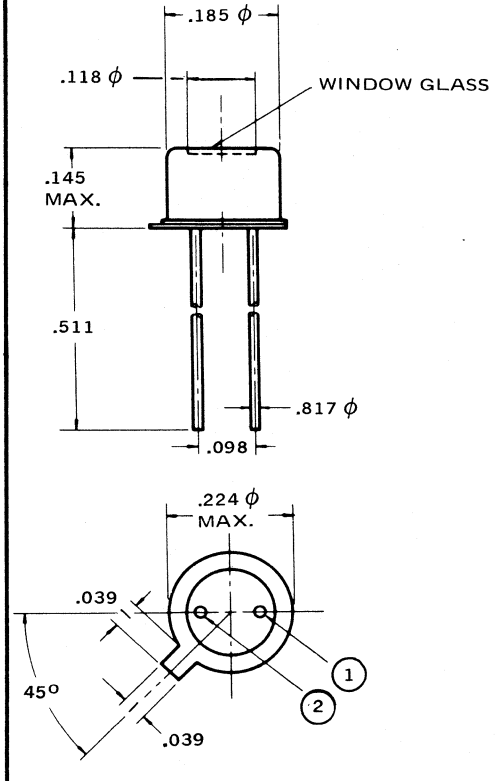
PT78



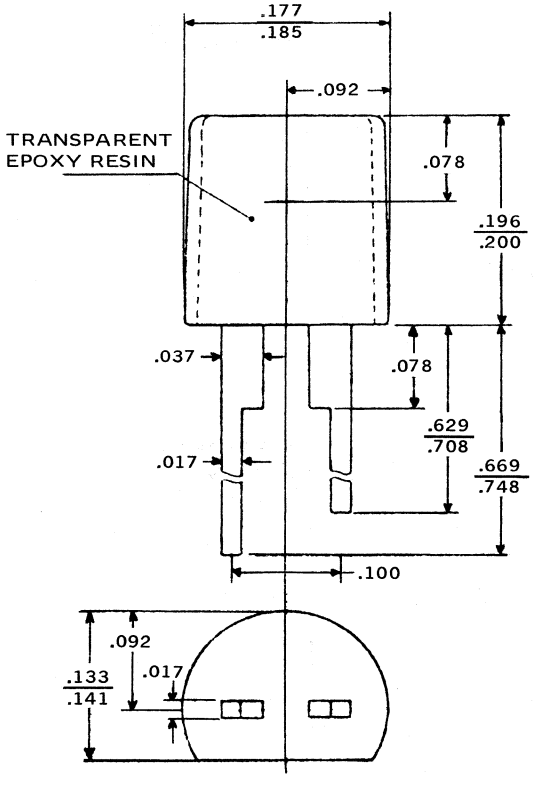
PT79



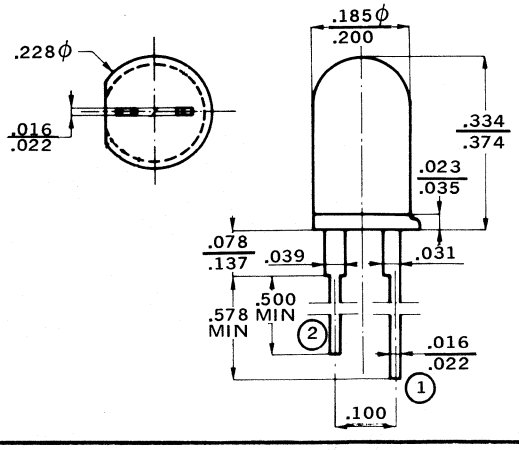
PT81



PT82



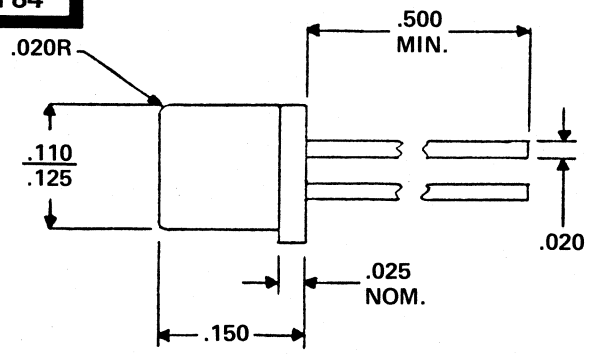
PT83



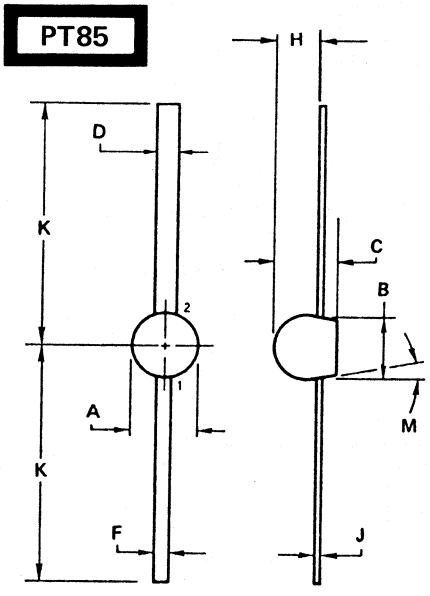
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PT84

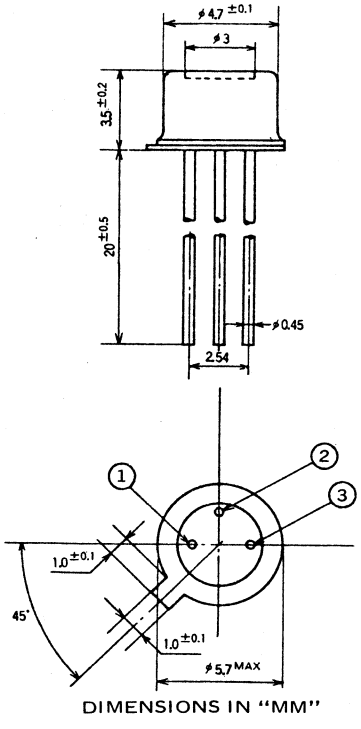


PT85



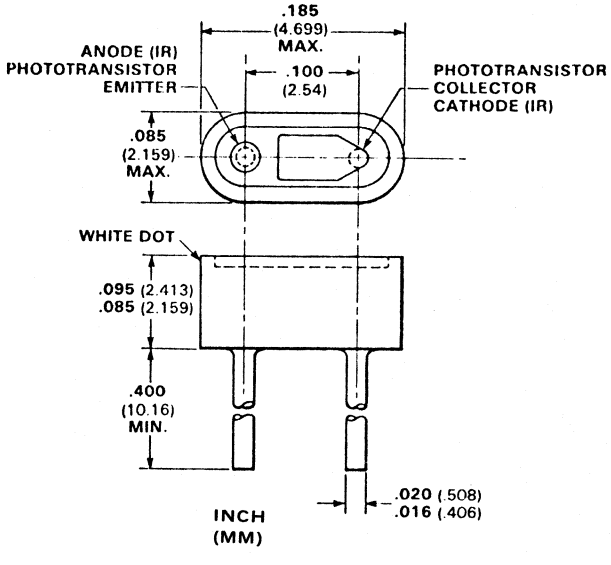
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	2.34	2.59	0.092	0.102
B	2.11	2.36	0.083	0.093
C	2.39	2.64	0.094	0.104
D	0.64	0.74	0.025	0.029
F	0.46	0.56	0.018	0.022
H	1.57	1.83	0.062	0.072
J	0.20	0.30	0.008	0.012
K	9.65	–	0.380	–
M	9°	11°	9°	11°

PT86



DIMENSIONS IN "MM"

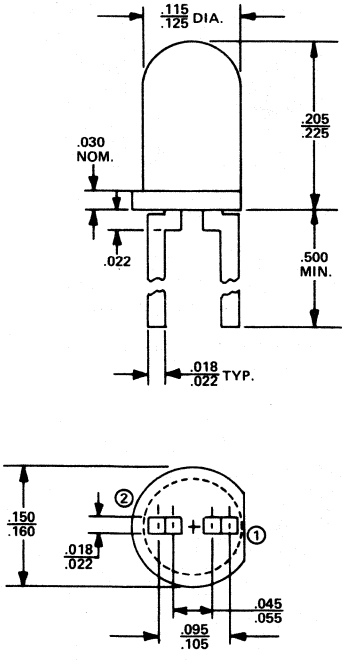
PT87



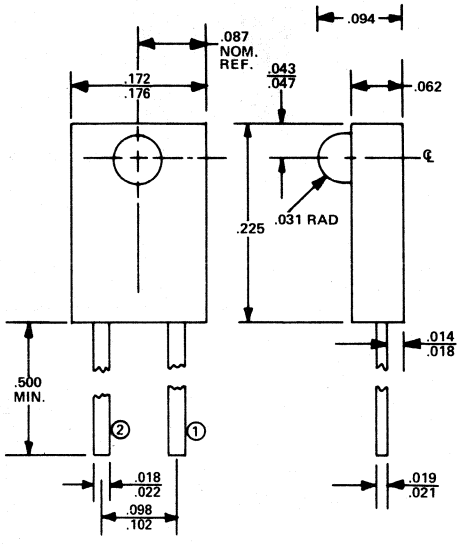
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PT88

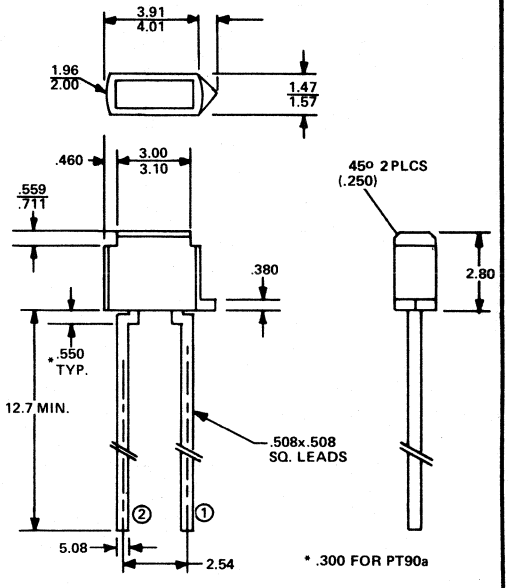


PT89

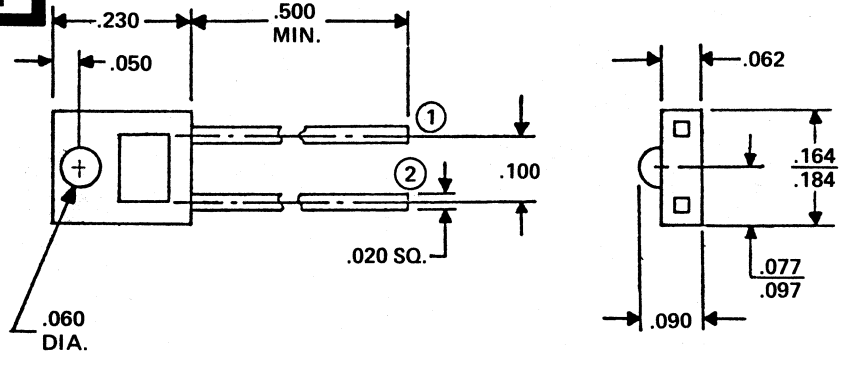


PT90

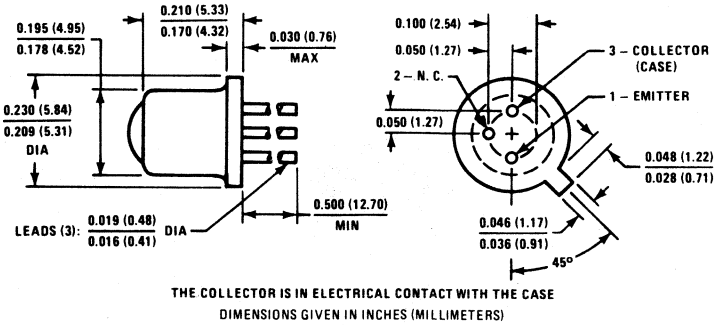
DIMENSIONS IN MM



PT91



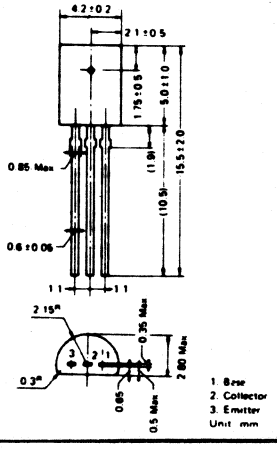
PT92



THE COLLECTOR IS IN ELECTRICAL CONTACT WITH THE CASE

DIMENSIONS GIVEN IN INCHES (MILLIMETERS)

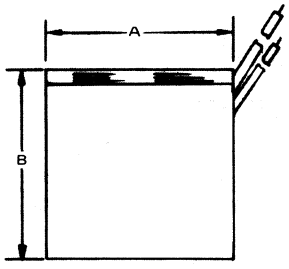
PT93



49. OUTLINE DRAWINGS

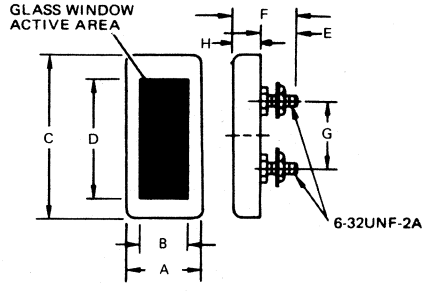
IN DRAWING NUMBER SEQUENCE

PV1



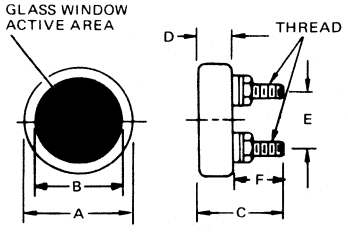
	A	B	THICK	REMARKS
PV1	.767 .807	.770		No Leads
PV1a	.767 .807	.770		6 in.Pigtail Leads
PV1b	.767 .807	.770		.032 in.Wide,3/8 in.Long Ribbon
PV1c	.767 .807	1.140		No Leads
PV1d	.767 .807	1.140		6 in.Pigtail Leads
PV1e	.767 .807	1.140		.032 in.Wide,3/8 in.Long Ribbon
PV1f	.767 .807	1.834 1.880		No Leads
PV1g	.767 .807	1.834 1.880		6 in.Pigtail Leads
PV1h	.767 .807	1.834 1.880		.032 in.Wide,3/8 in.Long Ribbon
PV1j	.440	.720	.050 MAX	Pigtail Leads
PV1k	.540	.880	.050 MAX	Pigtail Leads
PV1m	.640	1.440	.050 MAX	Pigtail Leads
PV1n	.880	1.690	.050 MAX	Pigtail Leads
PV1p	.500	.600	.050 MAX	Pigtail Leads
PV1q	2.000	2.000	.050 MAX	Pigtail Leads
PV1r	.200	.087		No Leads
PV1s	.200	.100		No Leads
PV1t	.200	.200		No Leads
PV1u	.400	.200		No Leads
PV1v	.800	.200		No Leads
PV1w	.400	.400		No Leads
PV1x	.800	.400		No Leads
PV1y	.800	.800		No Leads
PV1z	.200	.087		6 in.Pigtail Leads
PV1aa	.200	.100		6 in.Pigtail Leads
PV1ab	.200	.200		6 in.Pigtail Leads
PV1ac	.400	.200		6 in.Pigtail Leads
PV1ad	.800	.200		6 in.Pigtail Leads
PV1ae	.400	.400		6 in.Pigtail Leads
PV1af	.800	.400		6 in.Pigtail Leads
PV1ag	.800	.800		6 in.Pigtail Leads
PV1ah	.520	.400		No Leads
PV1aj	.800	.520		No Leads
PV1ak	1.120	.400		No Leads
PV1am	1.120	.800		No Leads
PV1an	.840	.400		No Leads
PV1ap	.840	.800		No Leads
PV1aq	1.840	.400		No Leads
PV1ar	1.840	.800		No Leads
PV1as	.520	.400		6 in.Pigtail Leads
PV1at	.800	.520		6 in.Pigtail Leads
PV1au	1.120	.400		6 in.Pigtail Leads
PV1av	1.120	.800		6 in.Pigtail Leads
PV1aw	.840	.400		6 in.Pigtail Leads
PV1ax	.840	.800		6 in.Pigtail Leads
PV1ay	1.840	.400		6 in.Pigtail Leads
PV1az	1.840	.800		6 in.Pigtail Leads
PV1ba	.393	.787	.025	6 in.Leads
PV1bb	.393	.393	.025	6 in.Leads
PV1bc	.393	.196	.025	6 in.Leads
PV1bd	.196	.787	.025	6 in.Leads
PV1be	.196	.393	.025	6 in.Leads
PV1bf	.196	.196	.025	6 in.Leads
PV1bg	.196	.098	.025	6 in.Leads
PV1bh	.787	.787	.025	6 in.Leads
PV1bj	.196	.984	.025	6 in.Leads
PV1bk	.384 .404	.384 .404	.015 .035	No Leads or 6 inch #32 AWG Leads
PV1bm	.778 .798	.187 .202	.015 .035	No Leads or 6 inch #32 AWG Leads
PV1bn	.378 .398	.187 .202	.015 .035	No Leads or 6 inch #32 AWG Leads
PV1bp	.178 .193	.187 .202	.015 .035	No Leads or 6 inch #32 AWG Leads
PV1bq	.083 .093	.187 .202	.015 .035	No Leads or 6 inch #32 AWG Leads
PV1br	.788	.788	.013	No Leads
PV1bs	1.576	.788	.013	No Leads or 6 inch #32 AWG Leads
PV1bt	2.364	.788	.013	No Leads or 6 inch #32 AWG Leads
PV1bu	.788	.394		No Leads or 6 inch #32 AWG Leads

PV2



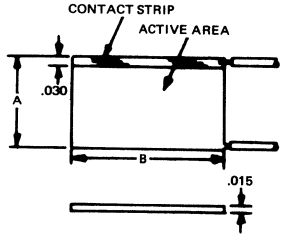
	A	B	C	D	E	F	G	H
PV2	1.120	.750	2.2	1.600	.400	.840	1.00	
PV2a	1.100	.700	2.2	1.600	.400		.600	.300

PV3



	A	B	C	D	E	F	THREAD
PV3	1.250		.875	.375	.625		8-32UNF2A
PV3a	1.200	1.100		.300	.600	.400	6-32
PV3b	1.900	1.700		.300	.600	.400	6-32

PV4

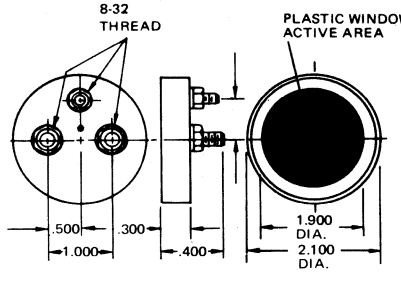


	A	B	REMARKS
PV4	.200	.200	Without Pigtail Leads
PV4a	.200	.400	Without Pigtail Leads
PV4b	.200	.800	Without Pigtail Leads
PV4c	.400	.200	Without Pigtail Leads
PV4d	.400	.400	Without Pigtail Leads
PV4e	.400	.800	Without Pigtail Leads
PV4f	.800	.200	Without Pigtail Leads
PV4g	.800	.400	Without Pigtail Leads
PV4h	.800	.800	Without Pigtail Leads
PV4j	.200	.200	As Shown
PV4k	.200	.400	As Shown
PV4m	.200	.800	As Shown
PV4n	.400	.200	As Shown
PV4p	.400	.400	As Shown
PV4q	.400	.800	As Shown
PV4r	.800	.200	As Shown
PV4s	.800	.400	As Shown
PV4t	.800	.800	As Shown
PV4u	.200	.200	6 Inch Pigtail Leads Blue Lead Positive
PV4v	.100	.200	6 Inch Pigtail Leads Blue Lead Positive
PV4w	.390	.390	6 Inch Pigtail Leads Blue Lead Positive
PV4x	.390	.785	6 Inch Pigtail Leads Blue Lead Positive

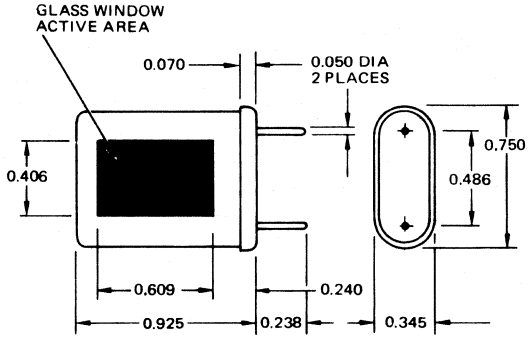
PV5

	DIA	THICK	REMARKS
PV5	.250	.050 MAX	Leads As Shown
PV5a	.380	.050 MAX	Leads As Shown
PV5b	1.130	.050 MAX	Leads As Shown
PV5c	1.750	.050 MAX	Leads As Shown
PV5d	2.000	.050 MAX	Leads As Shown
PV5e	1.125		No Leads
PV5f	1.125		6 in.Pigtail or #32 AWG Leads
PV5g	1.77		w/Leads
PV5h	1.18		w/Leads

PV6



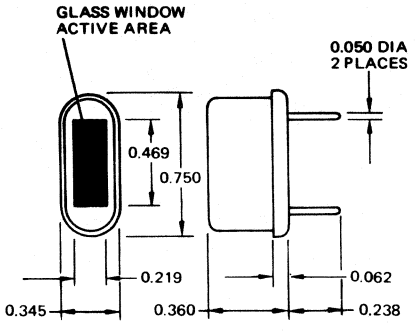
PV7



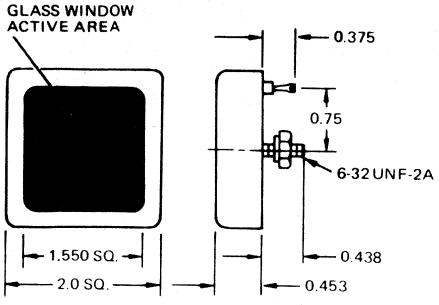
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

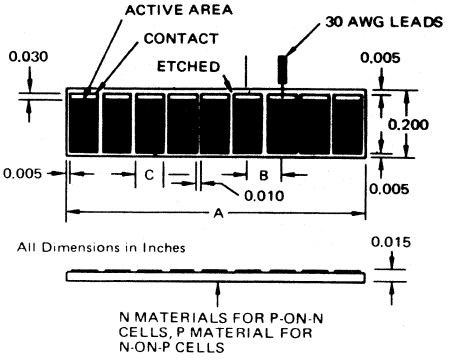
PV8



PV9



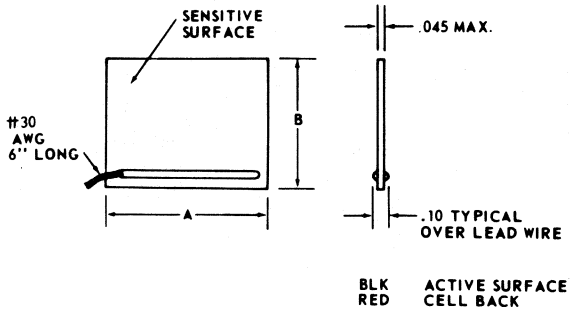
PV10



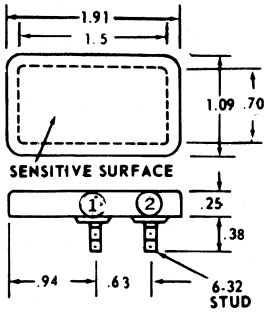
	A	B	C	REMARKS
PV10	.087	.087	.077	With Baseplate
PV10a	.174	.087	.077	With Baseplate
PV10b	.261	.087	.077	With Baseplate
PV10c	.348	.087	.077	With Baseplate
PV10d	.435	.087	.077	With Baseplate
PV10e	.522	.087	.077	With Baseplate
PV10f	.609	.087	.077	With Baseplate
PV10g	.696	.087	.077	With Baseplate
PV10h	.783	.087	.077	With Baseplate
PV10j	.870	.087	.077	With Baseplate
PV10k	.100	.100	.090	With Baseplate
PV10m	.200	.100	.090	With Baseplate
PV10n	.300	.100	.090	With Baseplate
PV10p	.400	.100	.090	With Baseplate
PV10q	.500	.100	.090	With Baseplate
PV10r	.600	.100	.090	With Baseplate
PV10s	.700	.100	.090	With Baseplate
PV10t	.800	.100	.090	With Baseplate
PV10u	.900	.100	.090	With Baseplate
PV10v	1.000	.100	.090	With Baseplate
PV10w	.087	.087	.077	With Baseplate and Pigtail Lead
PV10x	.174	.087	.077	With Baseplate and Pigtail Lead
PV10y	.261	.087	.077	With Baseplate and Pigtail Lead
PV10z	.348	.087	.077	With Baseplate and Pigtail Lead
PV10aa	.435	.087	.077	With Baseplate and Pigtail Lead
PV10ab	.522	.087	.077	With Baseplate and Pigtail Lead
PV10ac	.609	.087	.077	With Baseplate and Pigtail Lead
PV10ad	.696	.087	.077	With Baseplate and Pigtail Lead
PV10ae	.783	.087	.077	With Baseplate and Pigtail Lead
PV10af	.870	.087	.077	With Baseplate and Pigtail Lead
PV10ag	.100	.100	.090	With Baseplate and Pigtail Lead
PV10ah	.200	.100	.090	With Baseplate and Pigtail Lead
PV10aj	.300	.100	.090	With Baseplate and Pigtail Lead
PV10ak	.400	.100	.090	With Baseplate and Pigtail Lead
PV10am	.500	.100	.090	With Baseplate and Pigtail Lead
PV10an	.600	.100	.090	With Baseplate and Pigtail Lead
PV10ap	.700	.100	.090	With Baseplate and Pigtail Lead
PV10aq	.800	.100	.090	With Baseplate and Pigtail Lead
PV10ar	.900	.100	.090	With Baseplate and Pigtail Lead
PV10as	1.000	.100	.090	With Baseplate and Pigtail Lead
PV10at	.087	.087	.077	With Pigtail Lead
PV10au	.174	.087	.077	With Pigtail Lead
PV10av	.261	.087	.077	With Pigtail Lead
PV10au	.348	.087	.077	With Pigtail Lead
PV10ax	.435	.087	.077	With Pigtail Lead
PV10ay	.522	.087	.077	With Pigtail Lead
PV10az	.609	.087	.077	With Pigtail Lead
PV10ba	.696	.087	.077	With Pigtail Lead
PV10bb	.783	.087	.077	With Pigtail Lead
PV10bc	.870	.087	.077	With Pigtail Lead
PV10bd	.100	.100	.090	With Pigtail Lead
PV10be	.200	.100	.090	With Pigtail Lead
PV10bf	.300	.100	.090	With Pigtail Lead
PV10bg	.400	.100	.090	With Pigtail Lead
PV10bh	.500	.100	.090	With Pigtail Lead
PV10bj	.600	.100	.090	With Pigtail Lead
PV10bk	.700	.100	.090	With Pigtail Lead
PV10bm	.800	.100	.090	With Pigtail Lead
PV10bn	.900	.100	.090	With Pigtail Lead
PV10bp	1.000	.100	.090	With Pigtail Lead

PV11

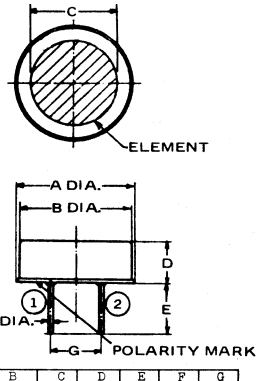
	A	B
PV11	.250	.484
PV11a	.440	.730
PV11b	.625	.765
PV11c	1.118	.622
PV11d	1.160	.654
PV11e	.875	.535
PV11f	.875	.643
PV11g	.875	.875
PV11h	1.459	.640
PV11j	1.118	.890
PV11k	1.500	1.500
PV11m	1.937	1.437
PV11n	.281	.875
PV11p	4.188	.250
PV11q	5.859	.500
PV11r	6.000	.437
PV11s	1.689	.886
PV11t	6.000	.250



PV12

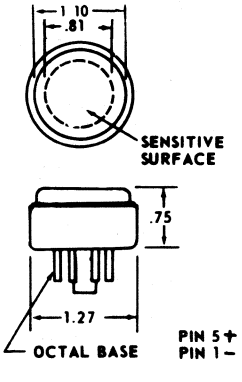


PV13

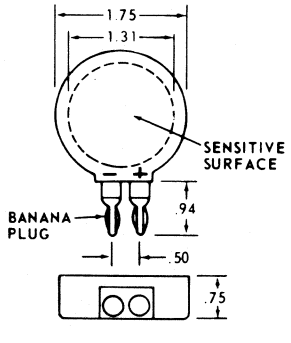


	A	B	C	D	E	F	G
PV13	1.270	1.100	.810	.260	.500	.040	.750
PV13a	1.083	1.024		.394	.472	.039	.472

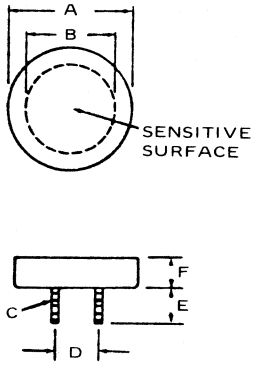
PV14



PV15



PV16

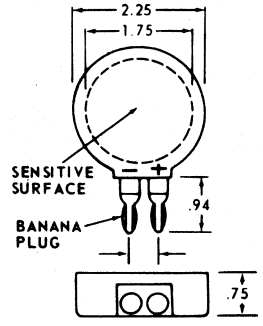


	A	B	C	D	E	F
PV16	1.75	1.31	6-32	.630	.500	.410
PV16a	2.00	1.50	8-32	1.00	.680	.440

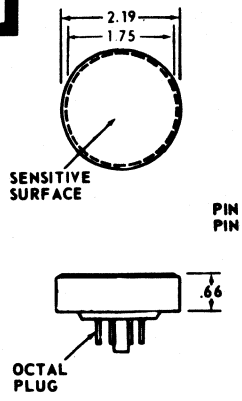
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

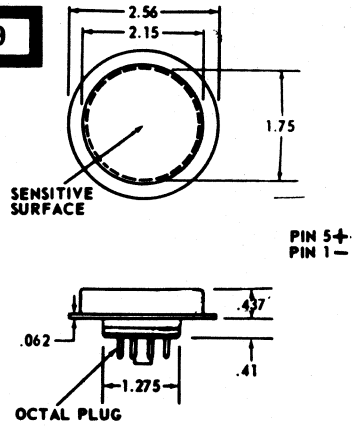
PV17



PV18

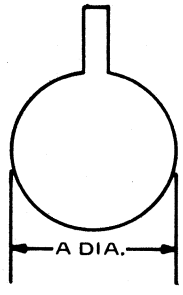


PV19

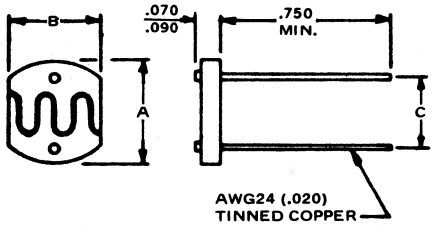


PV20

	A
PV20	.250
PV20a	.375
PV20b	.500
PV20c	1.000
PV20d	1.130
PV20e	1.375
PV20f	1.500
PV20g	1.770
PV20h	2.000

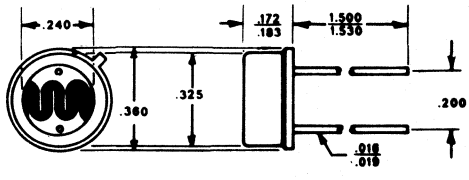


PV21

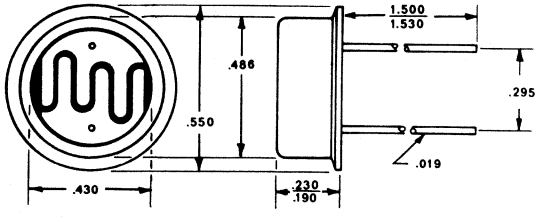


	A	B	C
PV21	.266 .276	.216 .236	.190 .210
PV21a	.363 .373	.300 .320	.255 .275

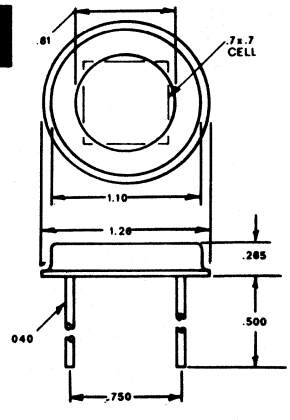
PV22



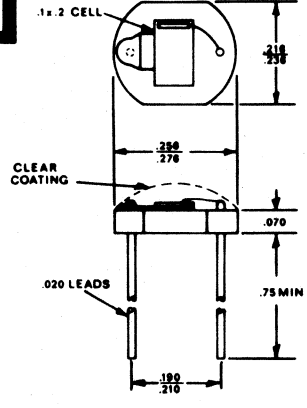
PV23



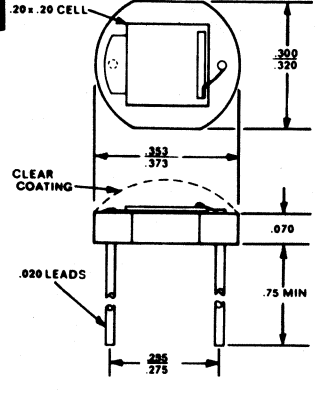
PV24



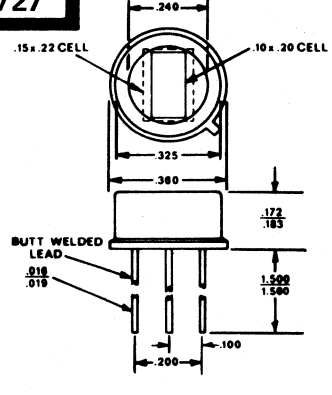
PV25



PV26



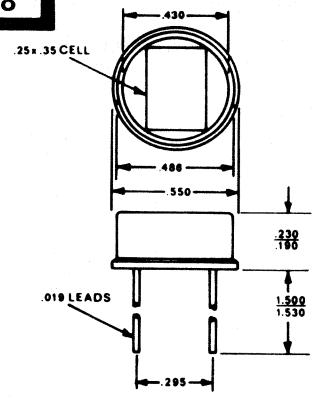
PV27



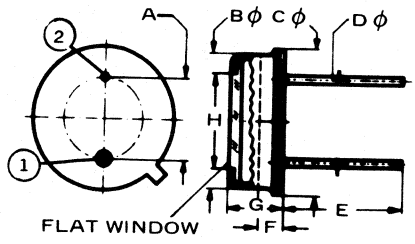
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PV28

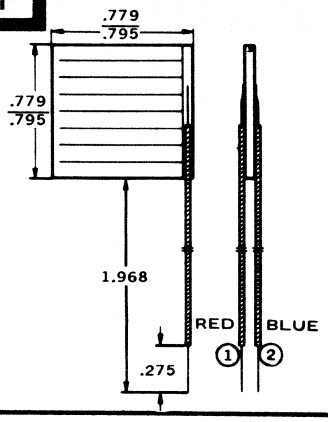


PV29

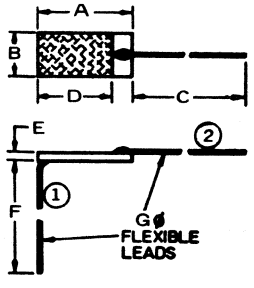


	A	B	C	D	E	F	G	H
PV29	.200	.322	.362	.019	.511	.064	.137	.236
PV29a	.100	.188	.224	.019	.511	.104	.220	.157
PV29b	.200	.313 .324	.357 .368	.017 .020	.500		.173 .204	
PV29c	.200	.313 .324	.357 .368	.017 .020	.500		.248 .279	

PV31

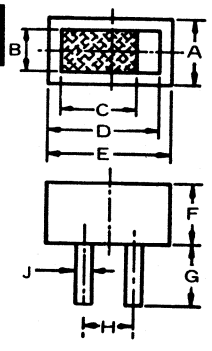


PV33



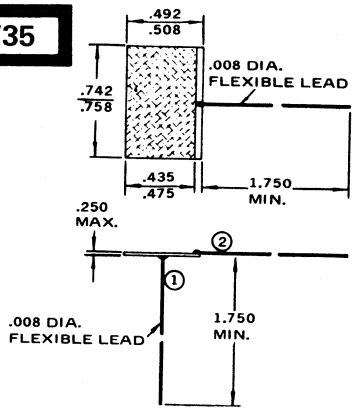
	A	B	C	D	E	F	G
PV33	.176 .192	.076 .092	1.750 MIN	.130 .170	.025 MAX	1.750 MIN	.008
PV33a	.242 .258	.742 .758	1.750 MIN	.185 .225	.025 MAX	1.750 MIN	.008
PV33b	.242 .258	.992 1.008	1.750 MIN	.185 .225	.025 MAX	1.750 MIN	.008

PV34

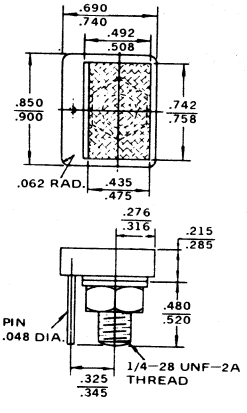


	A	B	C	D	E	F	G	H	J
PV34	.129 .141	.076 .092	.130 .170	.176 .192	.239 .251	.117 .133	.115 .135	.097 .103	.034 MAX
PV34a	.070 .080	.040 .056	.080 .120	.124 .140	.169 .181	.117 .133	.115 .135	.097 .103	.034 MAX

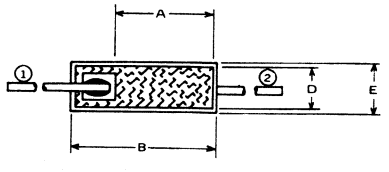
PV35

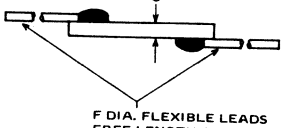


PV36



PV37

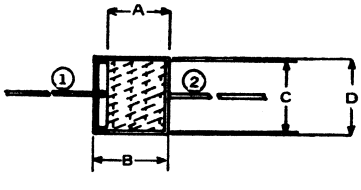


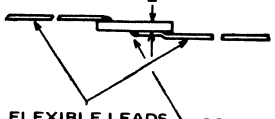


F DIA. FLEXIBLE LEADS
FREE LENGTH OF LEADS
FROM SOLDER–G MIN.

	A	B	C	D	E	F	G
PV37	.403	.449	.025	.064	.079	.007	1.732
PV37a	.063 .103	.117 .133	.025	.038	.037 .052	.007	1.732
PV37b	.086	.125 .137	.010	.037	.043 .055	.005	1.181
PV37c	.137	.173 .185	.010	.070	.074 .086	.005	1.181

PV38





F DIA. FLEXIBLE LEADS
FREE LENGTH OF LEADS
FROM SOLDER–G MIN.

SOLDERED IN APPROX.
CENTRAL POSITION.

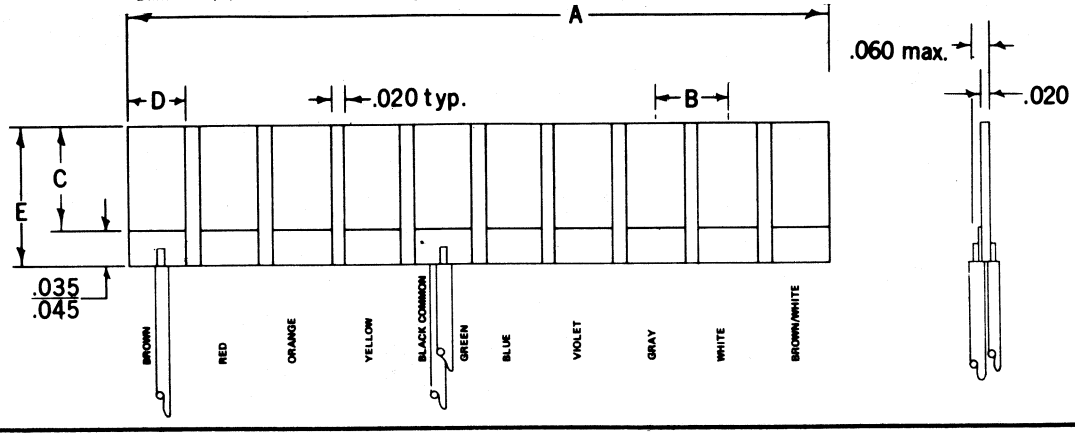
	A	B	C	D	E	F	G
PV38	.187 .227	.242 .257	.242	.242 .257	.025	.007	1.732
PV38a	.187 .227	.244 .259	.492	.492 .507	.025	.007	1.732
PV38b	.180 .219	.240 .255	.240	.240	.025	.007	1.732
PV38c	.332 .371	.393 .409	.393	.393 .409	.025	.007	1.732

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

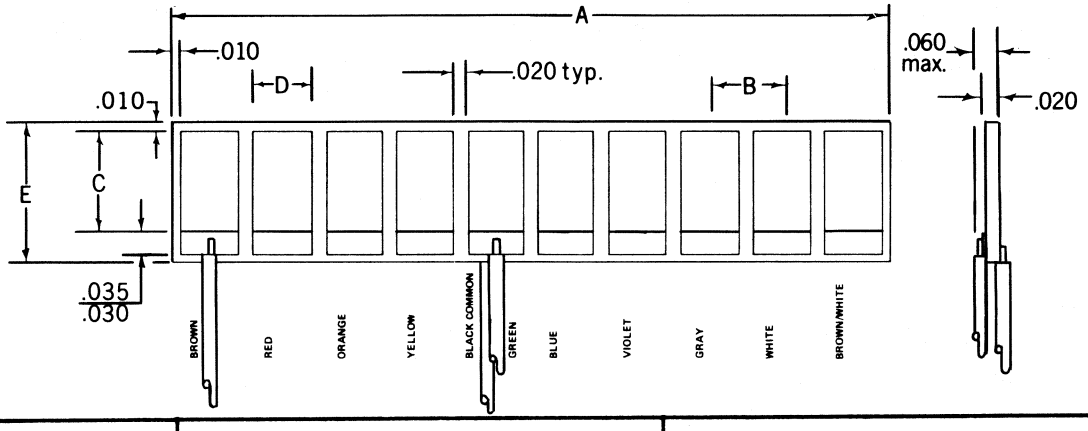
PV39

Dimension (A): To determine overall length, multiply center-to-center spacing by number of channels and subtract .020



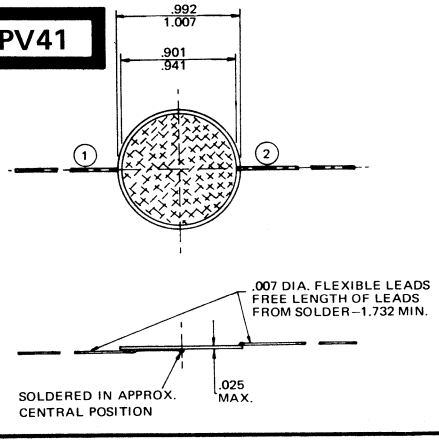
PV40

Dimension (A): To determine overall length, multiply center-to-center spacing by number of channels

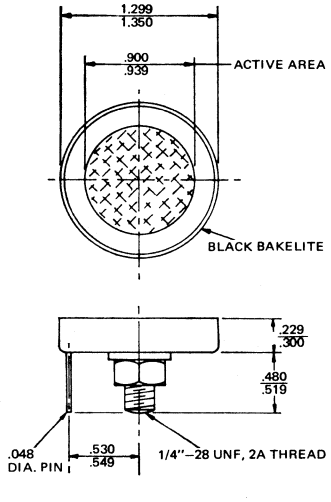


	B	C	D	E
PV40	.087	.145	.067	.200
PV40a	.100	.145	.080	.200
PV40b	.109	.145	.089	.200
PV40c	.087	.070	.067	.125
PV40d	.100	.070	.080	.125
PV40e	.109	.070	.089	.125

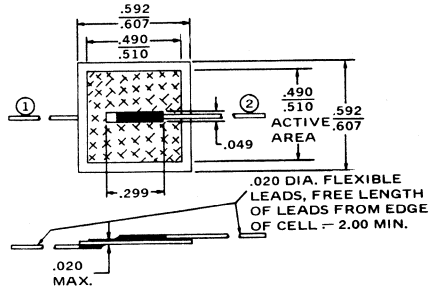
PV41



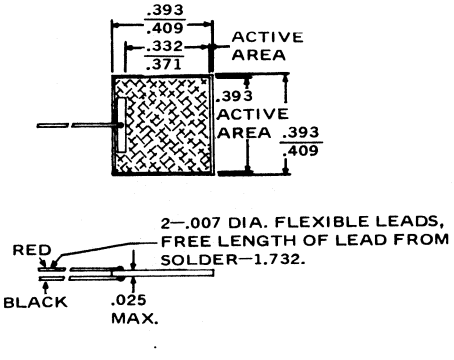
PV42



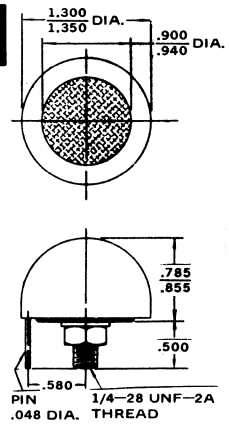
PV43



PV44



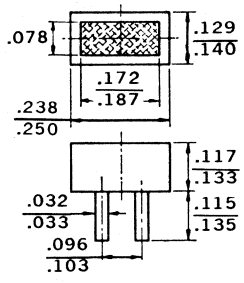
PV45



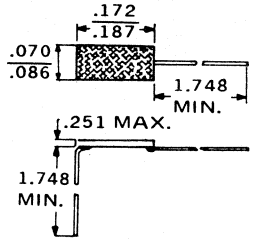
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

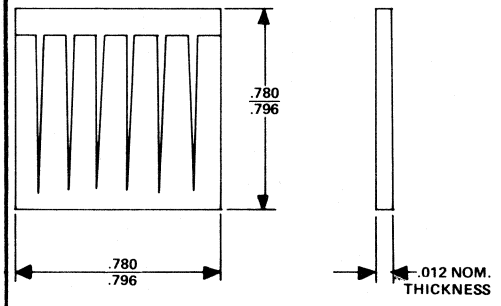
PV46



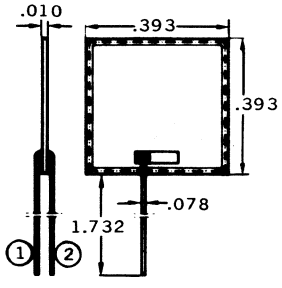
PV47



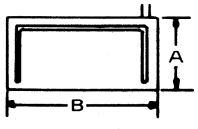
PV48



PV50

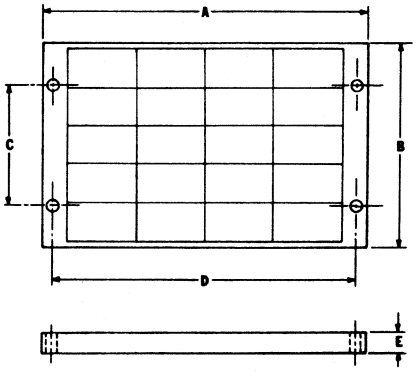


PV51



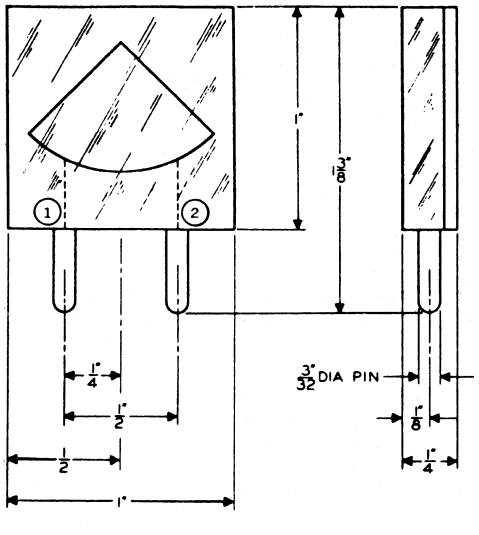
	A	B
PV51	.710	1.50
PV51a	1.02	.532
PV51b	1.14	1.46

PV52



	A	B	C	D	E
PV52	5.750	4.820	2.820	5.150	.440
PV52a	7.710	4.820	2.820	7.250	.440
PV52b	8.000	7.000	4.000	7.400	.440
PV52c	14.50	3.60	2.75	13.00	.440

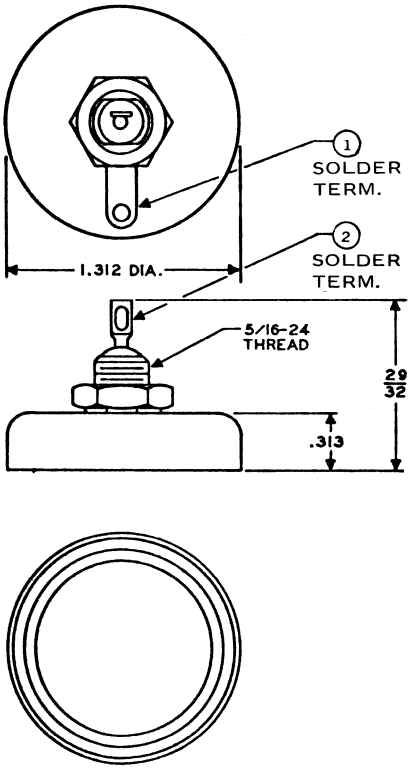
PV53



Front View

Side View

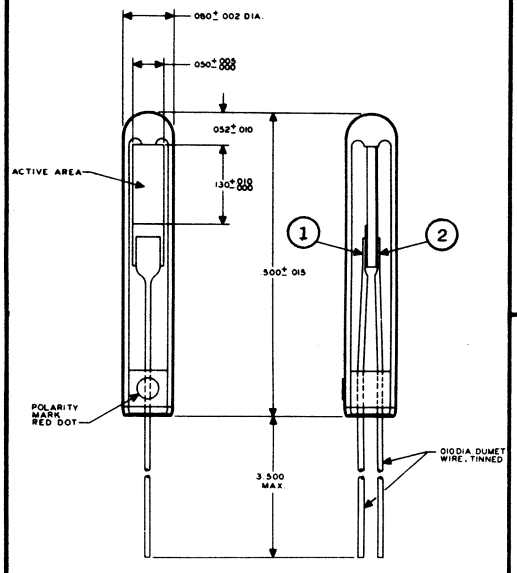
PV54



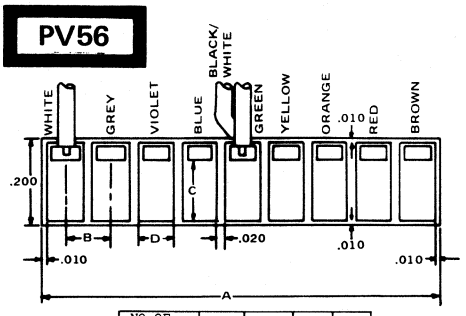
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PV55

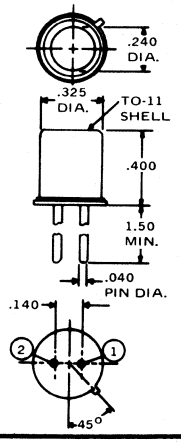


PV56

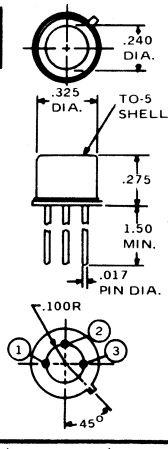


	NO OF POSITIONS	A	B	C	D
PV56	4	0.400	0.100	.140	.080
PV56a	5	0.500	0.100	.140	.080
PV56b	6	0.600	0.100	.140	.080
PV56c	7	0.700	0.100	.140	.080
PV56d	8	0.800	0.100	.140	.080
PV56e	9	0.900	0.100	.140	.080
PV56f	10	1.000	0.100	.140	.080

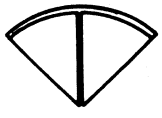
PV57



PV58

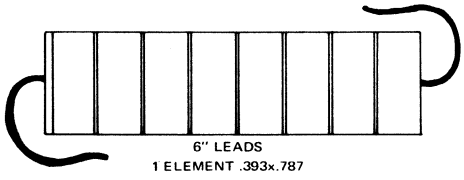


PV60



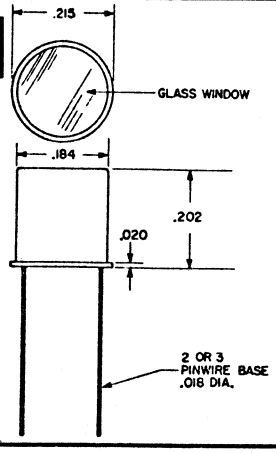
.281 DIA.
6" LEADS

PV61

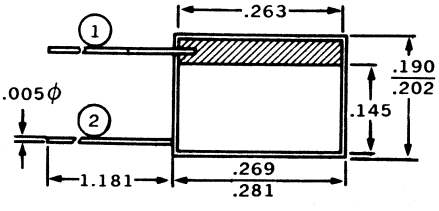


6" LEADS
1 ELEMENT .393x.787

PV62

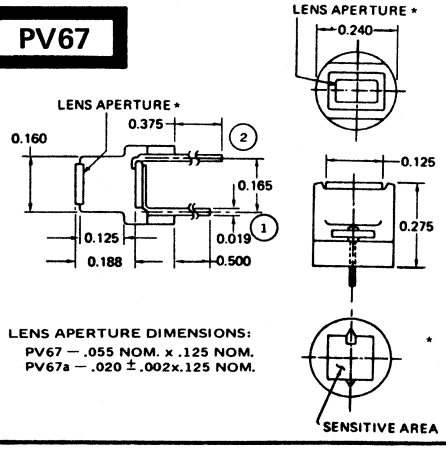


PV63



SLICE THICKNESS .010 IN.

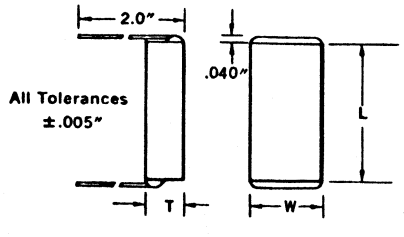
PV67



LENS APERTURE DIMENSIONS:
PV67 — .055 NOM. x .125 NOM.
PV67a — .020 ± .002x.125 NOM.

PV68

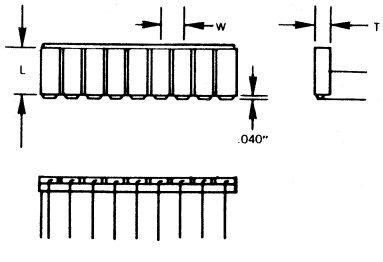
	L	T	W
PV68	.080	.060	.080
PV68a	.200	.060	.080
PV68b	.200	.060	.100



1) All standard units have T = .060"
2) Insulated leads have black = neg. and red = positive.
Silver leads have equivalent end markings.

PV69

	L	T	W	SEGMENT NO
PV69	.200	.100	.060	9 or 12
PV69a	.200	.080	.060	9 or 12
PV69b	.080	.080	.060	9 or 12

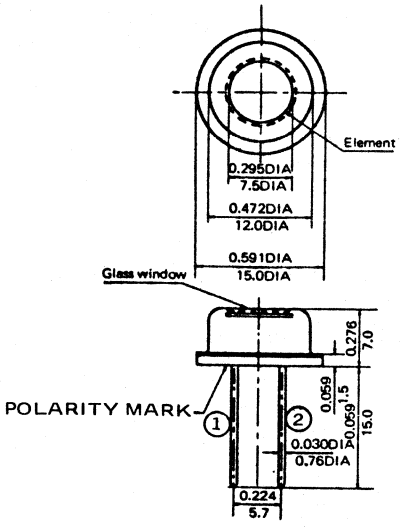


ALL TOLERANCES = ± .005 IN.

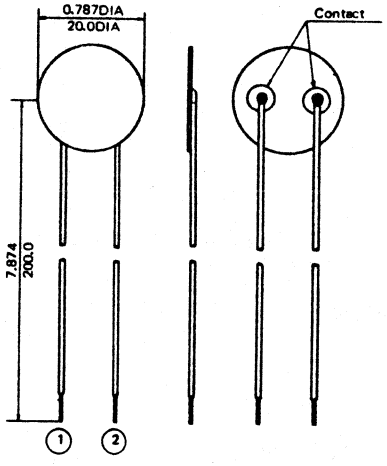
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

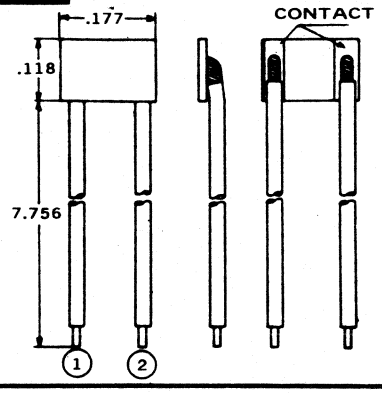
PV70



PV71

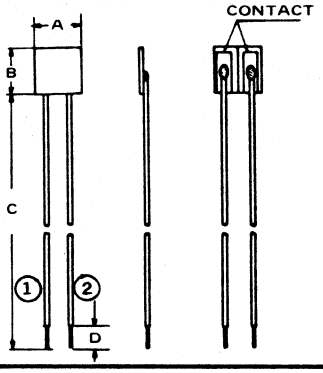


PV72

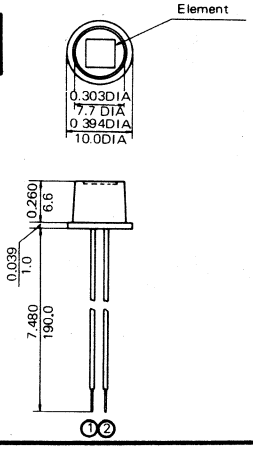


PV73

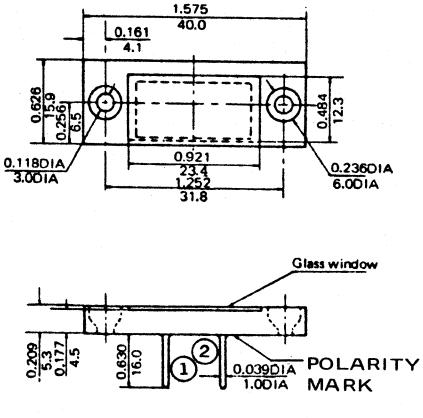
	A	B	C	D
PV73	.197	.197	7.677	
PV73a	.394	.394	7.48	.394
PV73b	.787	.394	7.48	.394
PV73c	.394	.157	7.717	



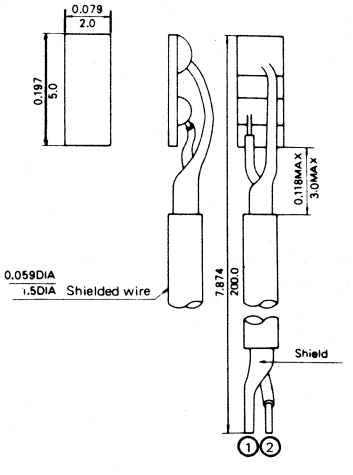
PV74



PV75



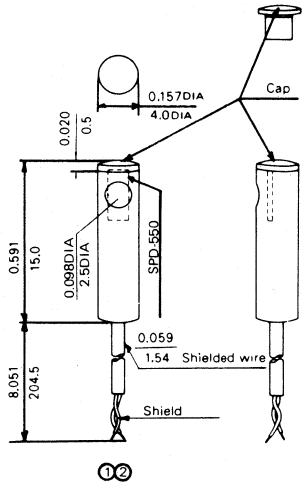
PV76



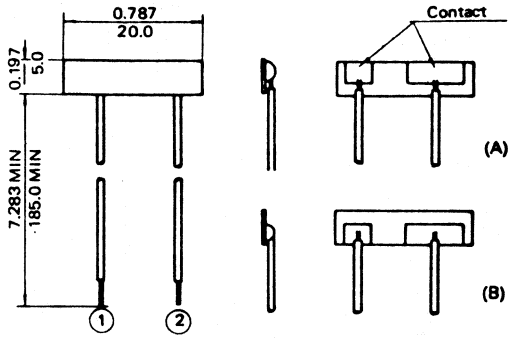
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

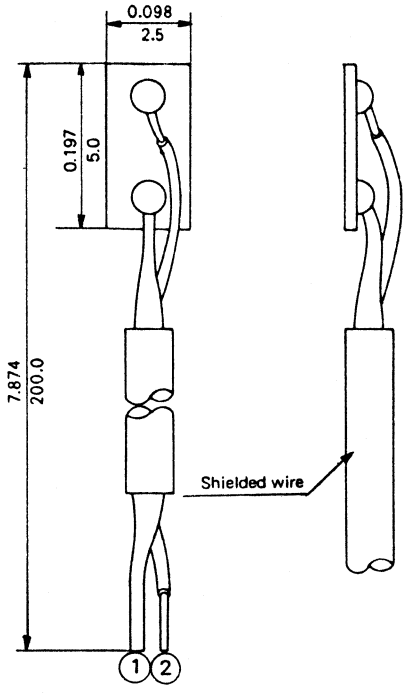
PV77



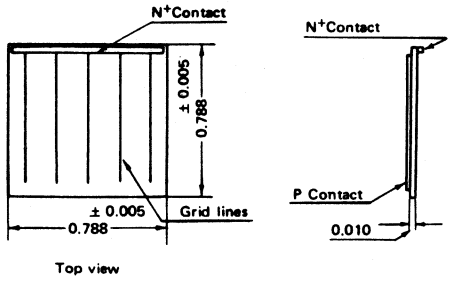
PV78



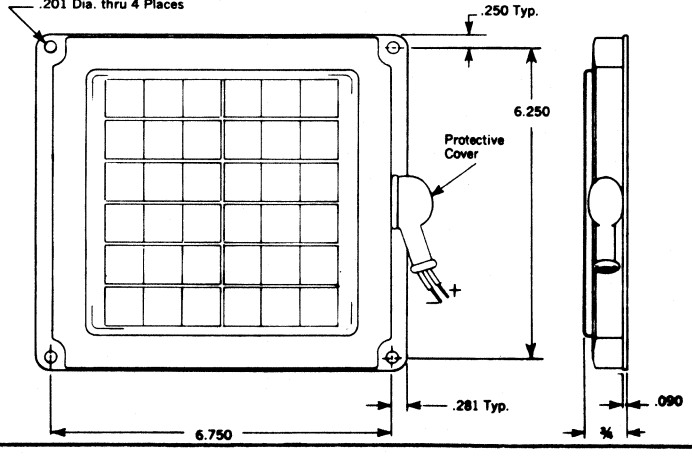
PV79



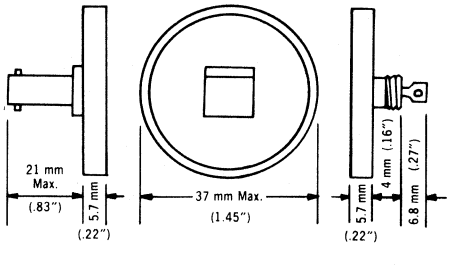
PV86



PV89



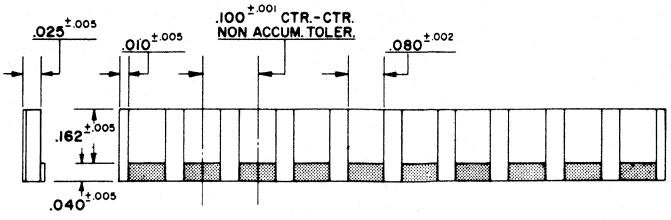
PV90



49. OUTLINE DRAWINGS

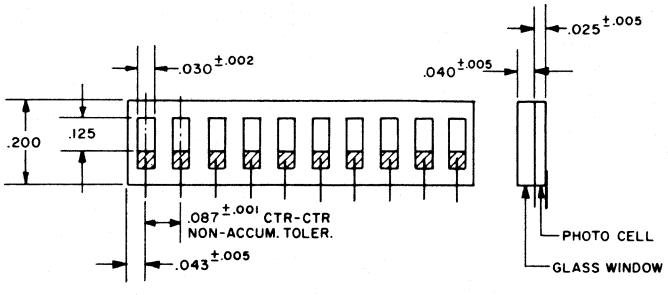
IN DRAWING NUMBER SEQUENCE

PV91



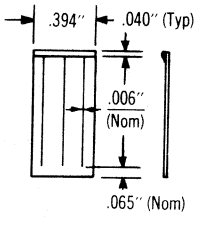
NOTE: HAS 6 INCH NO. 32 AWG LEADS

PV92



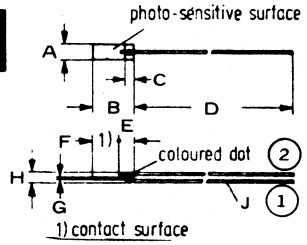
NOTE: HAS 4 INCH LONG, .006 INCH DIA. LEADS

PV93



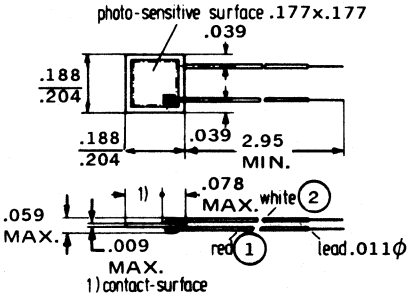
PV93a — HAS 6 INCH NO. 32 AWG LEADS

PV94

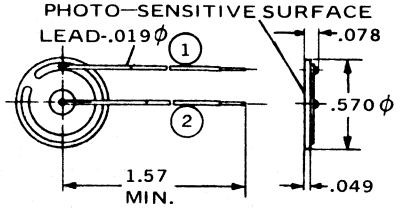


	A	B	C	D	E	F	G	H	J
PV94	.066 .082	.173 .188	.039 MAX	1.18	.066	.106 MIN	.011 .019	.059 MAX	
PV94a	.779 .795	.385 .401	.039 MAX	1.57	.098 MAX	.287 MIN	.011 .019	.059 MAX	.011
PV94b	.486 .503	.236 .251	.039 MAX	2.95 MIN	.098 MAX	.137 MIN	.011 .019	.059 MAX	.011
PV94c	.385 .401	.385 .401	.039 MAX	2.16 MIN	.098 MAX	.287 MIN	.011 .019	.059 MAX	.011
PV94d	.236 .251	.236 .251	.039 MAX	2.95 MIN	.098 MAX	.137 MIN	.011 .019	.059 MAX	.011
PV94e	.708 .866	.385 .401	.039 MAX	1.574 MIN	.098 MAX	.287 MIN	.011 .019	.059 MAX	.011

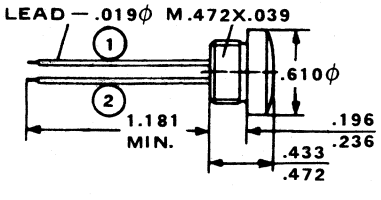
PV95



PV98



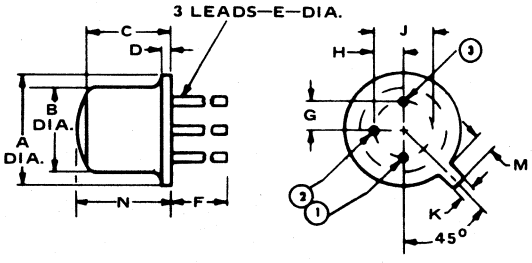
PV99



49. OUTLINE DRAWINGS

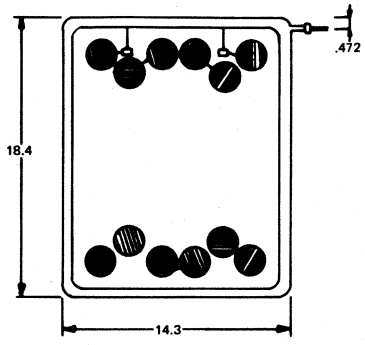
IN DRAWING NUMBER SEQUENCE

PV102

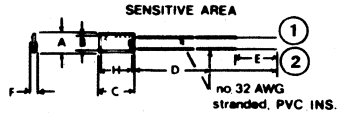


	A	B	C	D	E	F	G	H	J	K	M	N
PV102	.209 .230	.178 .195	.170 .210	.030 MAX	.016 .019	.500 MIN	.050	.050	.100	.036 .046	.028 .048	
PV102a	.205 .215	.178 .188			.017 .019	1.00 NOM		.048 .053	.096 .104			.220 .235

PV104

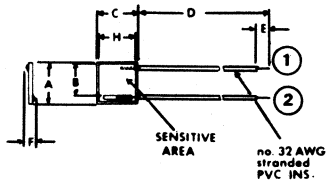


PV105



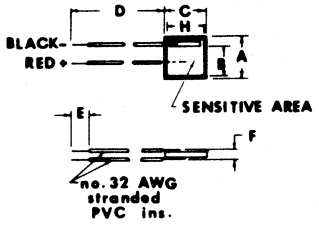
	A	B	C	D	E	F	H	LEAD1	LEAD2
PV105	.095 .105	.080 .090	.195 .205	6.00 NOM	.150 .300	.030 .060	.150 .160	Red(+)	Black(−)
PV105a	.190 .210	.150 .160	.990 1.01	6.00 NOM	.156 .218	.030 .050	.975 .995	Black(−)	Red(+)
PV105b	.090 .110	.050 .060	.990 1.01	6.00 NOM	.156 .218	.030 .050	.975 .995	Black(−)	Red(+)

PV106



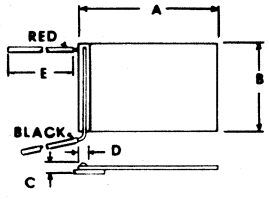
	A	B	C	D	E	F	H	LEAD1	LEAD2
PV106	.185 .195	.145 .155	.185 .195	6.00 NOM	.150 .250	.030 .050	.170 .180	Red(+)	Black(−)
PV106a	.195 .205	.152 .162	.390 .410	6.00 NOM	.150 .250	.030 .050	.375 .390	Black(−)	Red(−)

PV107



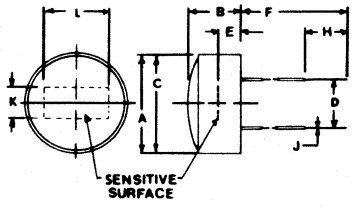
Dims.	Inches		Millimeters	
Ref	Min.	Max.	Min.	Max.
A	.390	.410	10.0	10.4
B	.334	.364	8.4	9.2
C	.390	.410	10.0	10.4
D	6.0 Nom.		152. Nom.	
E	.19 Nom.		4.9 Nom.	
F	.040	.050	1.02	1.28
H	.375	.385	9.4	9.8

PV108



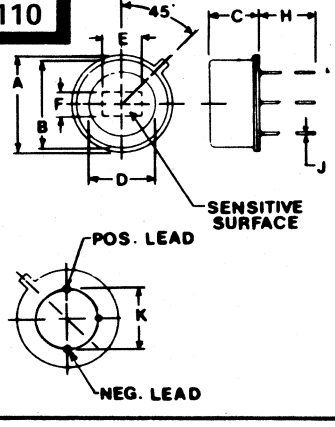
Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max.
A	.750	.770	19.02	19.72
B	.349	.359	9.85	9.18
C	.050	.060	1.21	1.41
D	.040	.050	1.01	1.21
E	6.0 Min. (Leads)		152. Min. (Leads)	

PV109



Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max.
A	.497	.512	12.8	13.0
B	.270	.290	6.85	7.38
C	.460	.470	11.75	12.00
D	.285	.305	7.22	7.75
E	.130	.150	3.32	3.8
F	6.0 Nom.		152.0 Nom.	
H	.19 Nom.		5. Nom.	
J	No. 32 AWG 7 Strand PVC			
K	.180	.200	4.58	5.08
L	.380	.400	9.68	10.25

PV110

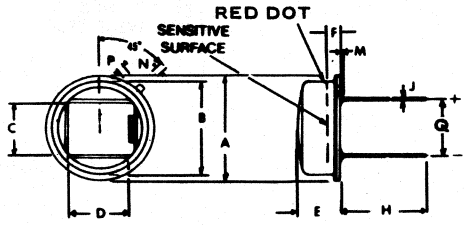


Dims.	Inches		Millimeters	
Ref.	Min.	Max.	Min.	Max.
A	.355	.365	9.20	9.28
B	.320	.330	8.13	8.38
C	.180	.190	4.58	4.82
D	.235	.245	5.98	6.22
E	.145	.155	3.69	3.92
F	.085	.095	2.15	2.41
H	1.50	1.60	38.	40.8
J	.016	.019	.41	.48
K	.235	.245	5.98	6.22

49. OUTLINE DRAWINGS

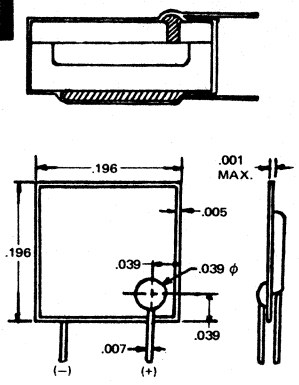
IN DRAWING NUMBER SEQUENCE

PV111

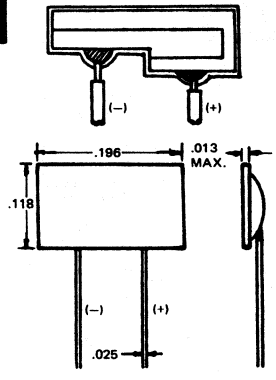


	A	B	C	D	E	F	H	J	Q	M	N	P
PV111	.355 .365	.320 .330	.130 .140	.150 .160	.180 .190	.085 .095	1.50 1.60	.016 .019	.195 .205	.025	.026 .037	.035 .045
PV111a	.545 .555	.481 .491	.185 .195	.145 .155	.200 .226	.031 .101	1.50 1.60	.016 .019	.290 .300	.025		
PV111b	.545 .555	.481 .491	.245 .255	.245 .255	.200 .226	.091 .101	1.50 1.60	.016 .019	.290 .300	.025		

PV112



PV113



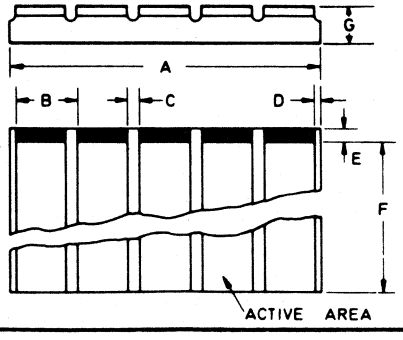
PV114

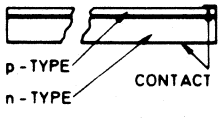
DWG. NO.	OUTLINE	ACTIVE AREA	DWG. NO.	OUTLINE	ACTIVE AREA
PV114		0·150 x 0·08 (±0·01)	PV114d		0·150 x 0·027
PV114a	ALTERNATIVE WIRE POSITIONS	10mm x 9mm	PV114e		0·150 x 0·042
			PV114f		0·085 x 0·048
PV114b		0·834 x 0·120	PV114g		4mm x 2·2mm 0·157 x 0·087
PV114c		0·12 x 0·107	PV114h		0·257 x 0·217

PV115

DWG. NO.			DWG. NO.		
PV115	9 CELLS	0·150 x 0·080 (0·10 PITCH)	PV115e	2 CELLS	0·1 x 0·1
PV115a	5 CELLS	0·050 x 0·080	PV115f	12 CELLS	0·06 x 0·043
PV115b	3 CELLS	0·06 x 0·065	PV115g	4 CELLS 6 CELLS 12 CELLS	0·043 x 0·06 (0·063 PITCH)
PV115c	DOUBLE CONTACT 11 CELLS	0·024 x 0·070 (0·039 PITCH)			
PV115d	9 CELLS	0·051 x 0·21 (0·071 PITCH)	PV115h	2 CELLS	4mm x 1·3mm

Dimension	Min.	Max.	Tol.
A Overall width of array	0·07	0·9	±0·010
B Pitch	0·035	–	±0·002*
C Cell separation	0·01	0·06	±0·002
D Shoulder	½C (Nominal)		
E Contact length	0·01	0·04	±0·005
F Length of active area	0·06	0·9	±0·010
G Thickness	0·015 ± 0·002 (typical)		

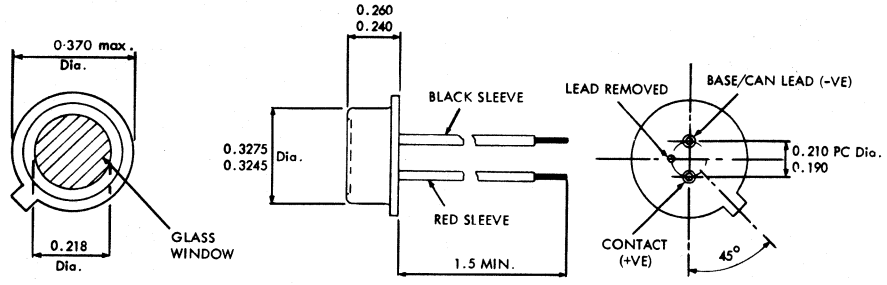




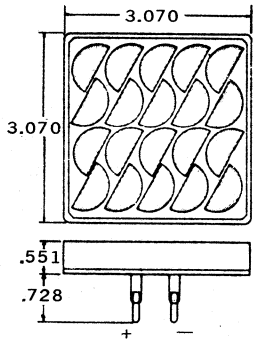
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

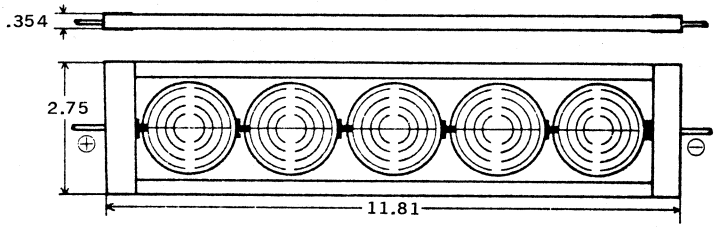
PV116



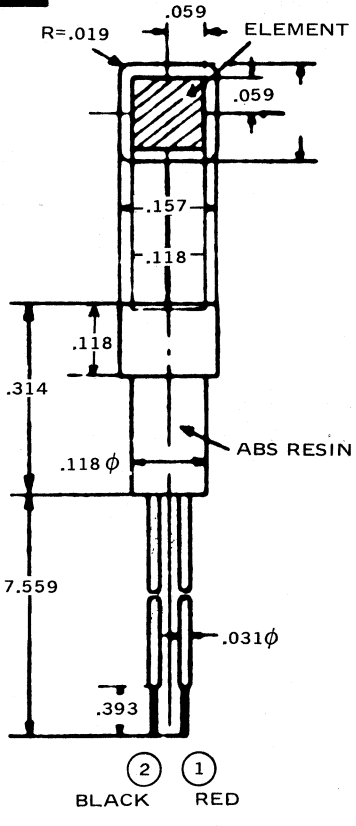
PV122



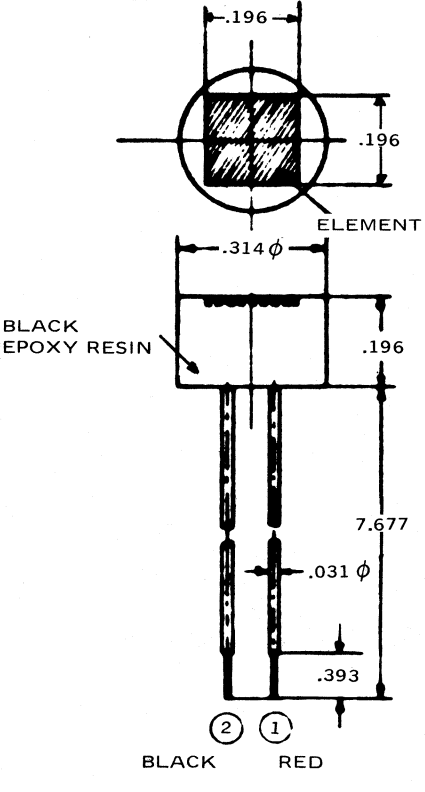
PV123



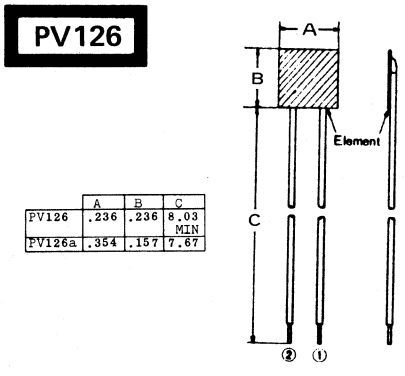
PV124



PV125



PV126

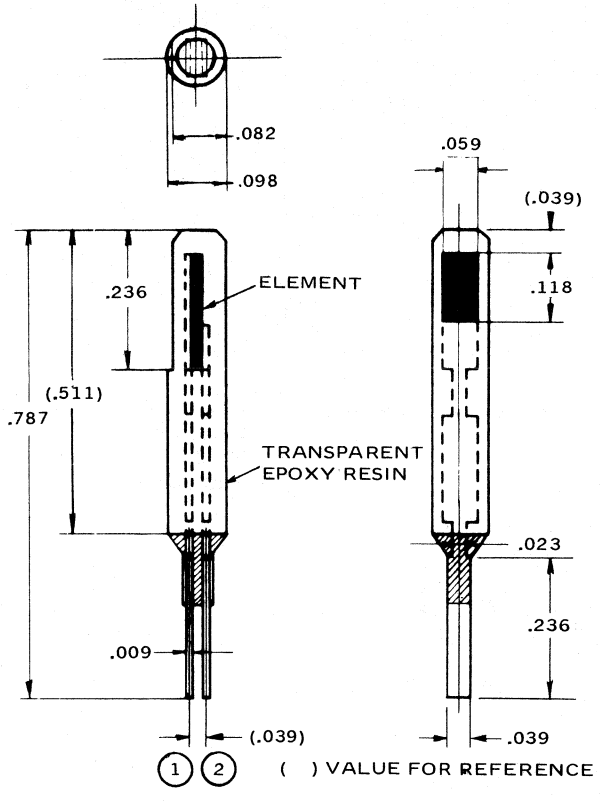


	A	B	C
PV126	.236	.236	8.03 MIN
PV126a	.354	.157	7.67

49. OUTLINE DRAWINGS

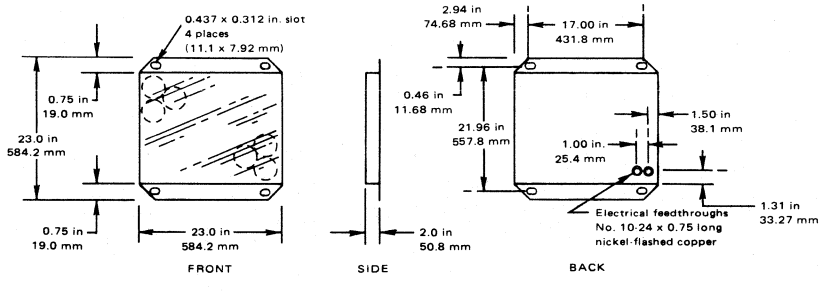
IN DRAWING NUMBER SEQUENCE

PV133



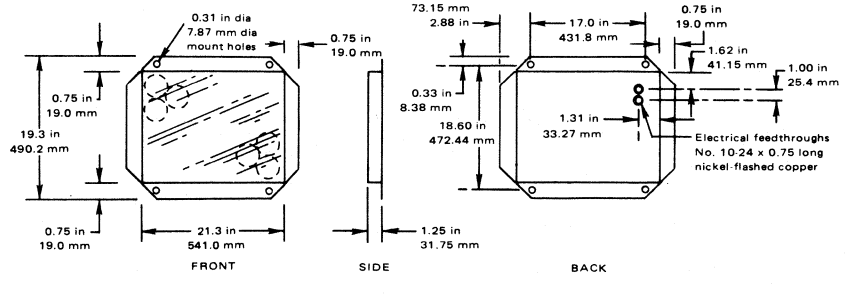
PV134

48 CELL MODULES



PV135

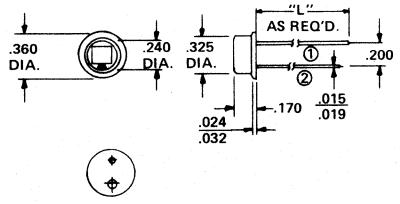
36 CELL MODULES



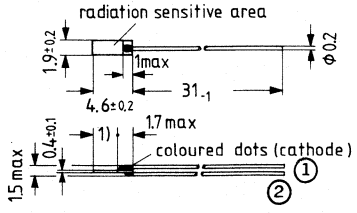
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PV136

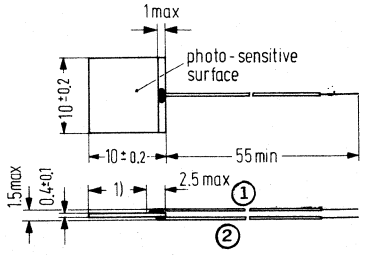


PV137



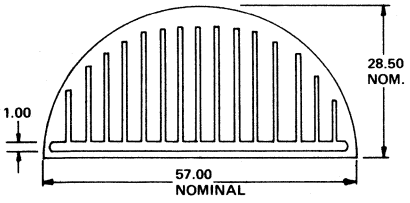
DIMENSIONS IN MM

PV138



DIMENSIONS IN MM

PV139

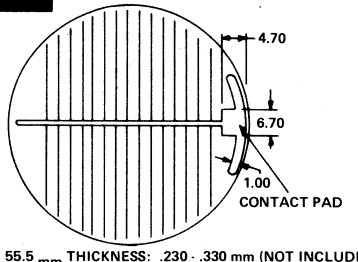


DIMENSIONS IN MM

THICKNESS 4.00 NOMINAL

PV140

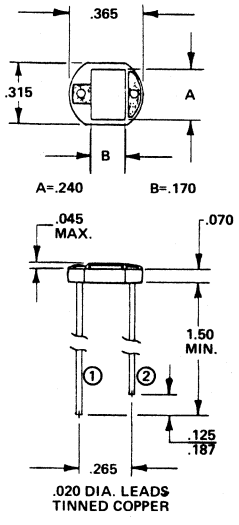
(DIMENSIONS IN MM)



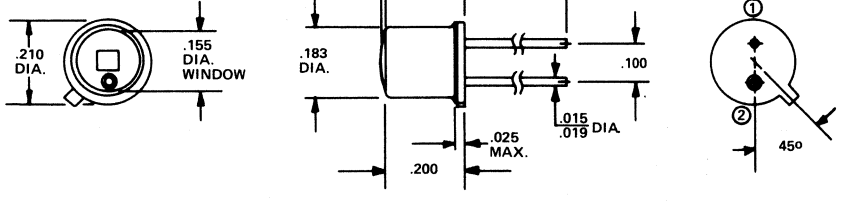
DIAMETER: $\frac{55.5}{57.0}$ mm THICKNESS: .230 - .330 mm (NOT INCLUDING CONTACTS)

(CELLS MAY BE PROVIDED WITH CONTACT PADS AT BOTH SIDES WHERE REQUIRED.)

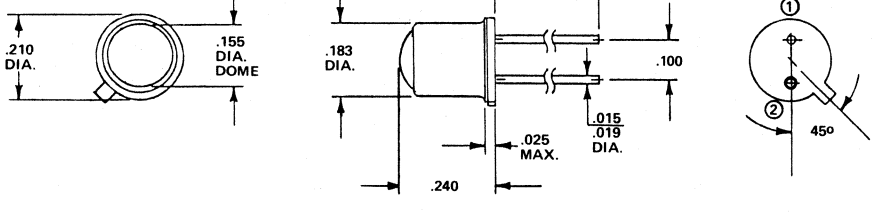
PV141



PV142



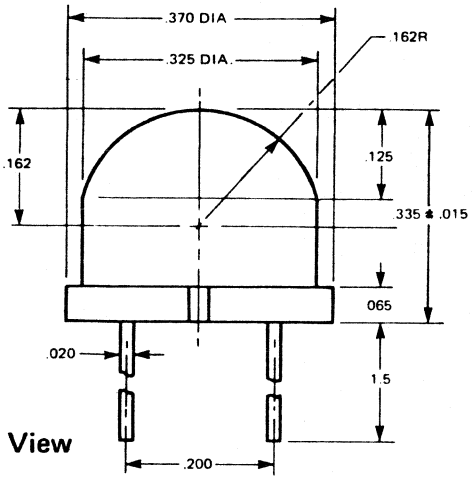
PV143



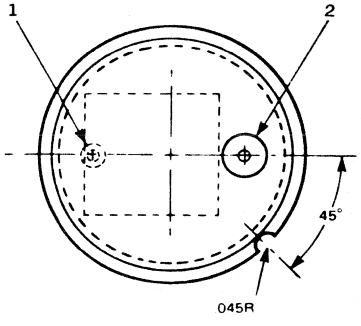
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PV144

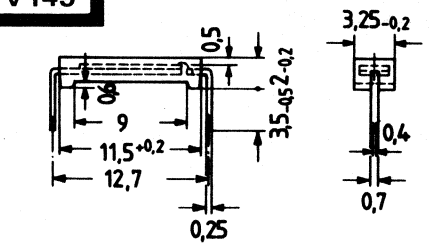


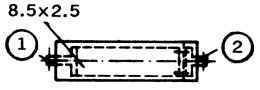
Front View



Top View

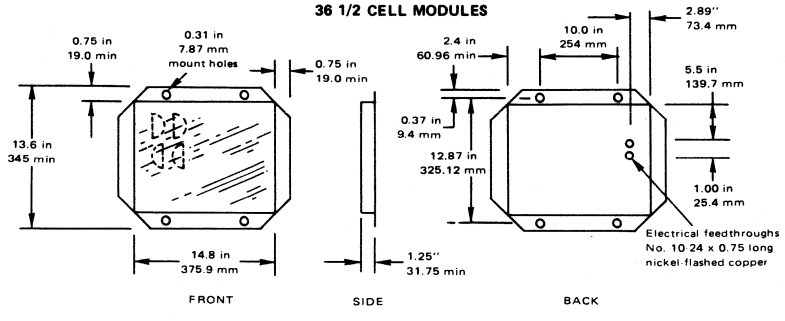
PV145



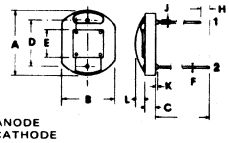


DIMENSIONS IN "MM"

PV146



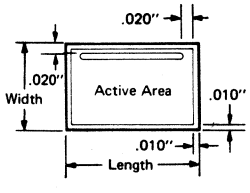
PV147



1 ANODE
2 CATHODE

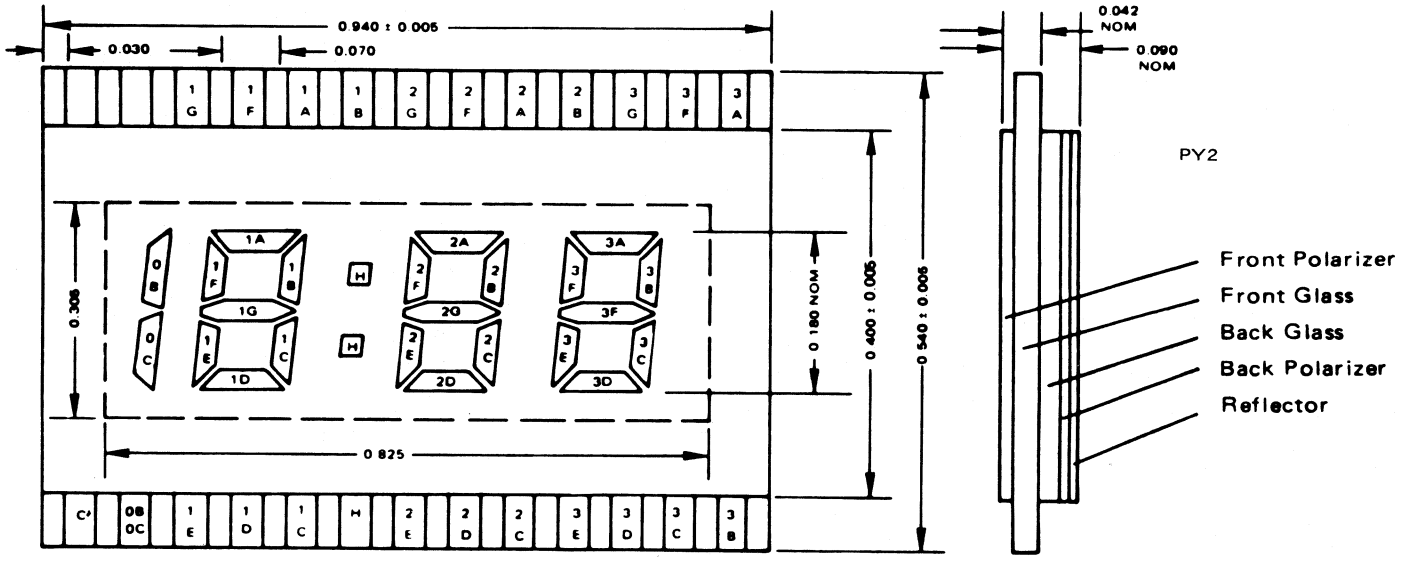
Ref.	INCHES		MILLIMETERS	
	MIN.	MAX.	MIN.	MAX.
A	.357	.367	9.05	9.32
B	.303	.313	7.70	7.94
C	.065	.075	1.66	1.92
D	.260	.270	6.61	6.86
E	.195	.205	4.90	5.22
F	.019	.021	.049	.053
H	.124	.188	3.17	4.78
J	.035	.045	.09	.12
K	.010	.020	.026	.051
L		.045		.115

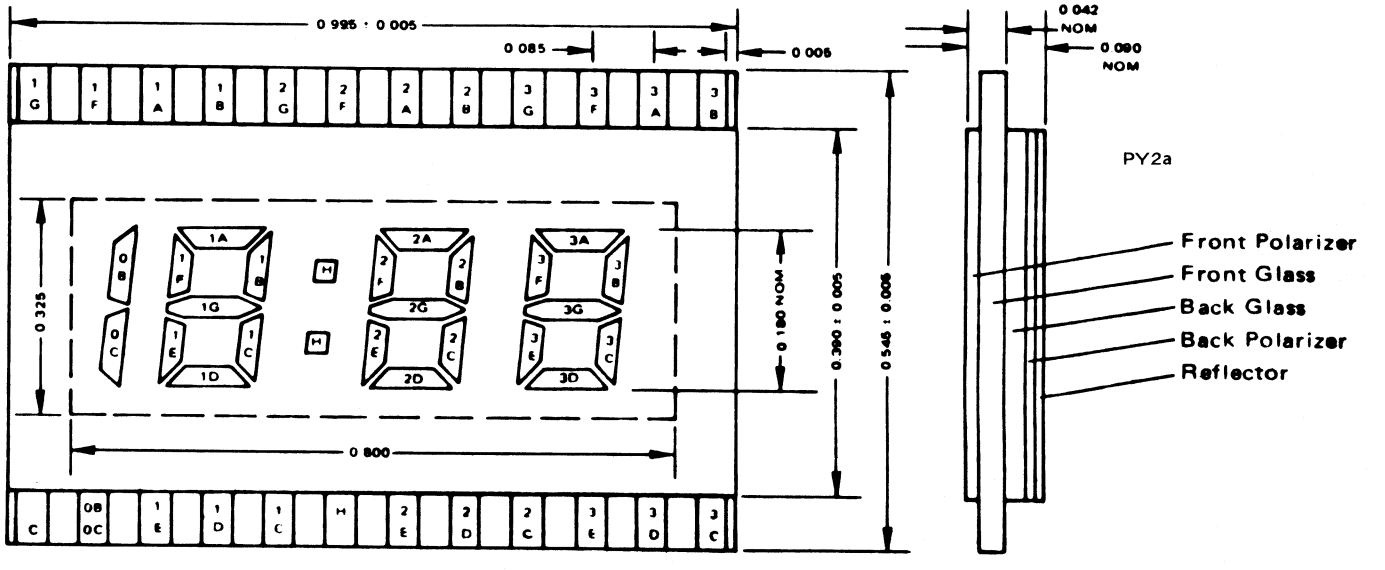
PV148



	Nominal Overall Dimensions	
	Thickness .064 centimeters	.025 inches
	centimeters	inches
PV148	.5 x .224	.197 x .088
PV148a	.5 x .478	.197 x .188
PV148b	.5 x .986	.197 x .388
PV148c	.5 x 2.0	.197 x .788
PV148d	1.0 x 1.0	.394 x .394

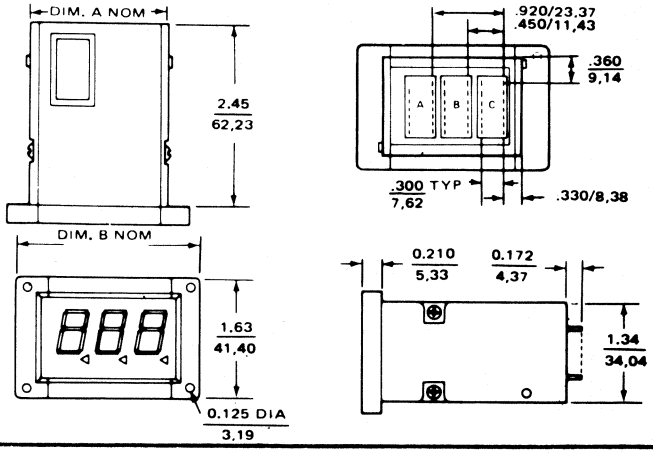
PY2



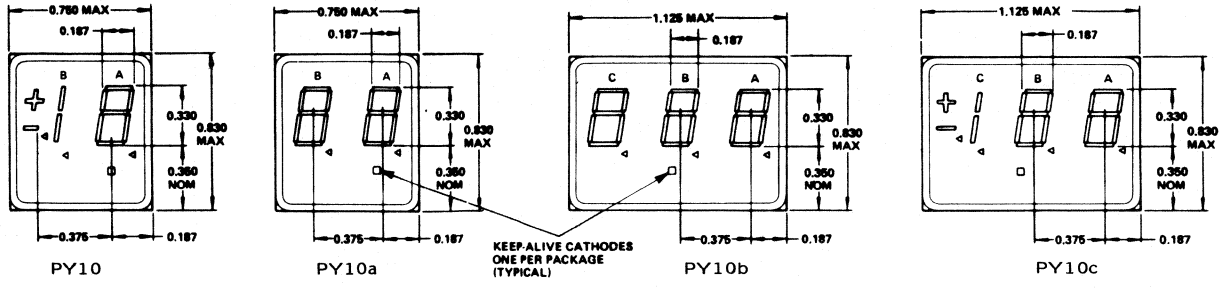


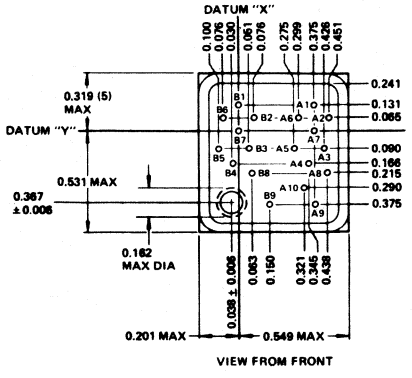
PY9

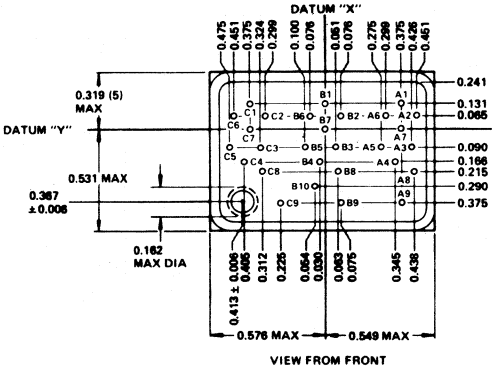
DWG. NO.	Description	
	Digit Pos.	Digits
PY9	2	1½
PY9a	2	2
PY9b	3	3
PY9c	3	2½
PY9	2	1½
PY9a	2	2
PY9b	3	3
PY9c	3	2½

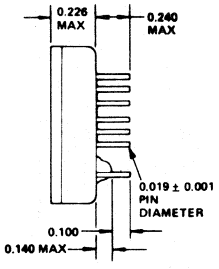


PY10

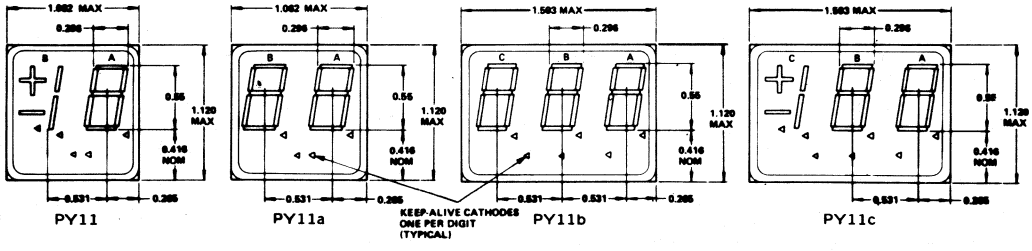

0.750 MAX
0.187
0.330
0.630 MAX
0.350 NOM
0.375
0.187
PY10
PY10a
KEEP-ALIVE CATHODES ONE PER PACKAGE (TYPICAL)
1.125 MAX
PY10b
PY10c

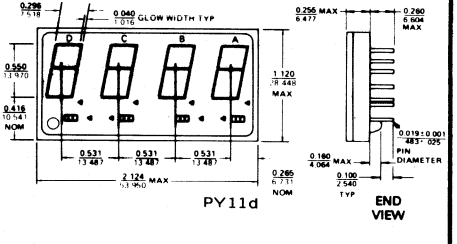

DATUM "X"
DATUM "Y"
0.319 (5) MAX
0.531 MAX
0.367 ±0.008
0.162 MAX DIA
0.201 MAX
0.549 MAX
VIEW FROM FRONT

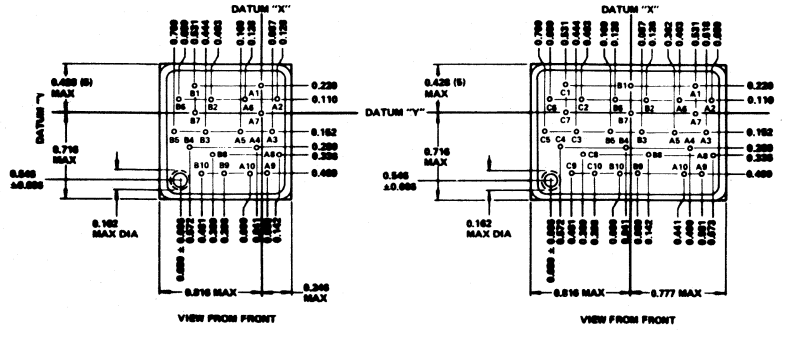

DATUM "X"
DATUM "Y"
0.319 (5) MAX
0.531 MAX
0.367 ±0.008
0.162 MAX DIA
0.576 MAX
0.549 MAX
VIEW FROM FRONT

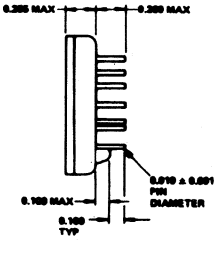

0.226 MAX
0.240 MAX
0.019 ± 0.001 PIN DIAMETER
0.100
0.140 MAX

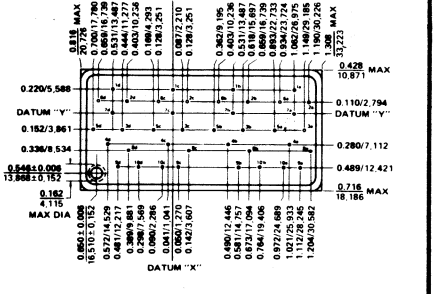
PY11


1.082 MAX
1.563 MAX
0.296
0.55
1.120 MAX
0.416 NOM
0.531
0.265
PY11
PY11a
KEEP-ALIVE CATHODES ONE PER DIGIT (TYPICAL)
PY11b
PY11c


0.040 GLOW WIDTH TYP
0.550
0.416 NOM
1.120 MAX
0.531
2.124 MAX
0.265 NOM
PY11d
0.256 MAX
0.260 MAX
0.180 MAX
0.100 TYP
END VIEW


DATUM "X"
DATUM "Y"
0.489 (5) MAX
0.716 MAX
0.548 ±0.008
0.162 MAX DIA
0.816 MAX
0.240 MAX
VIEW FROM FRONT
0.777 MAX

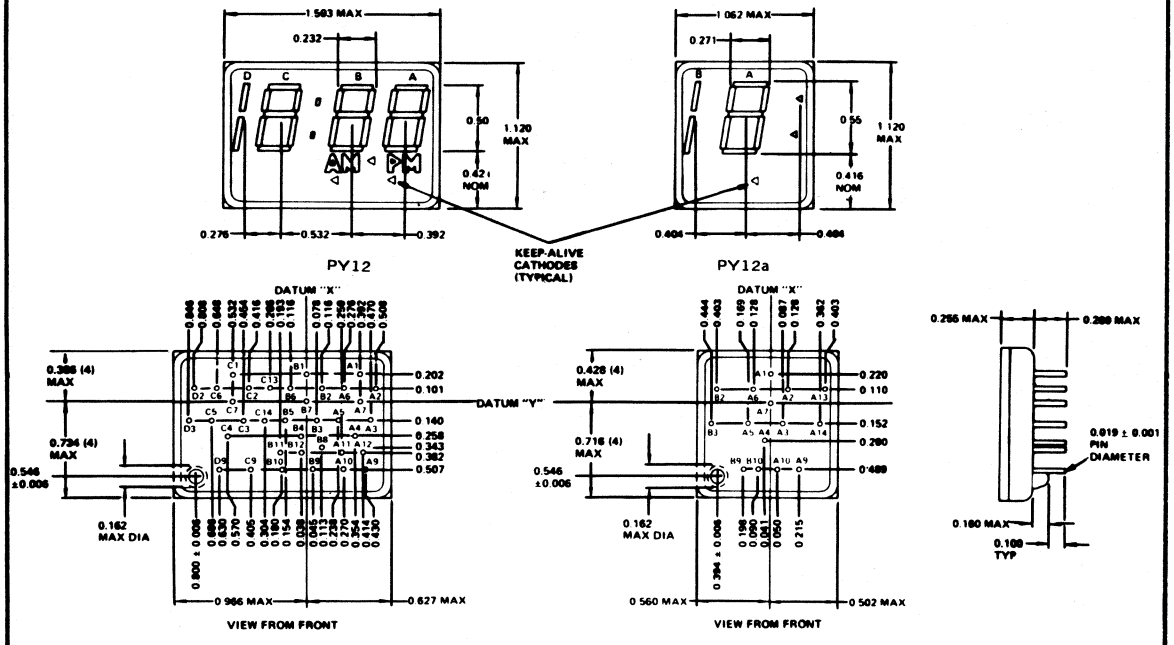

0.265 MAX
0.265 MAX
0.019 ± 0.001 PIN DIAMETER
0.100 MAX
0.100 TYP


DATUM "X"
0.220/5.588
DATUM "Y"
0.152/3.861
0.336/8.534
0.548±0.008
13.868±0.152
0.162
4.115
MAX DIA
0.428 MAX
10.871
0.110/2.794
0.280/7.112
0.489/12.421
0.716 MAX
18.186

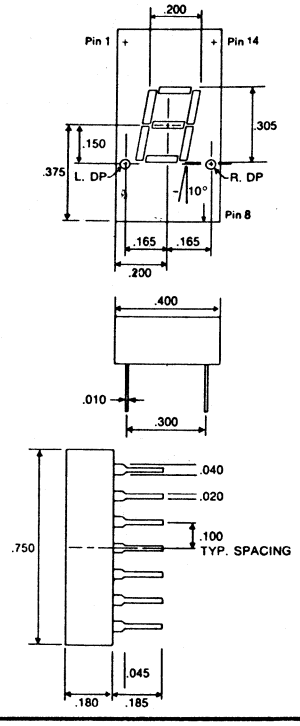
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

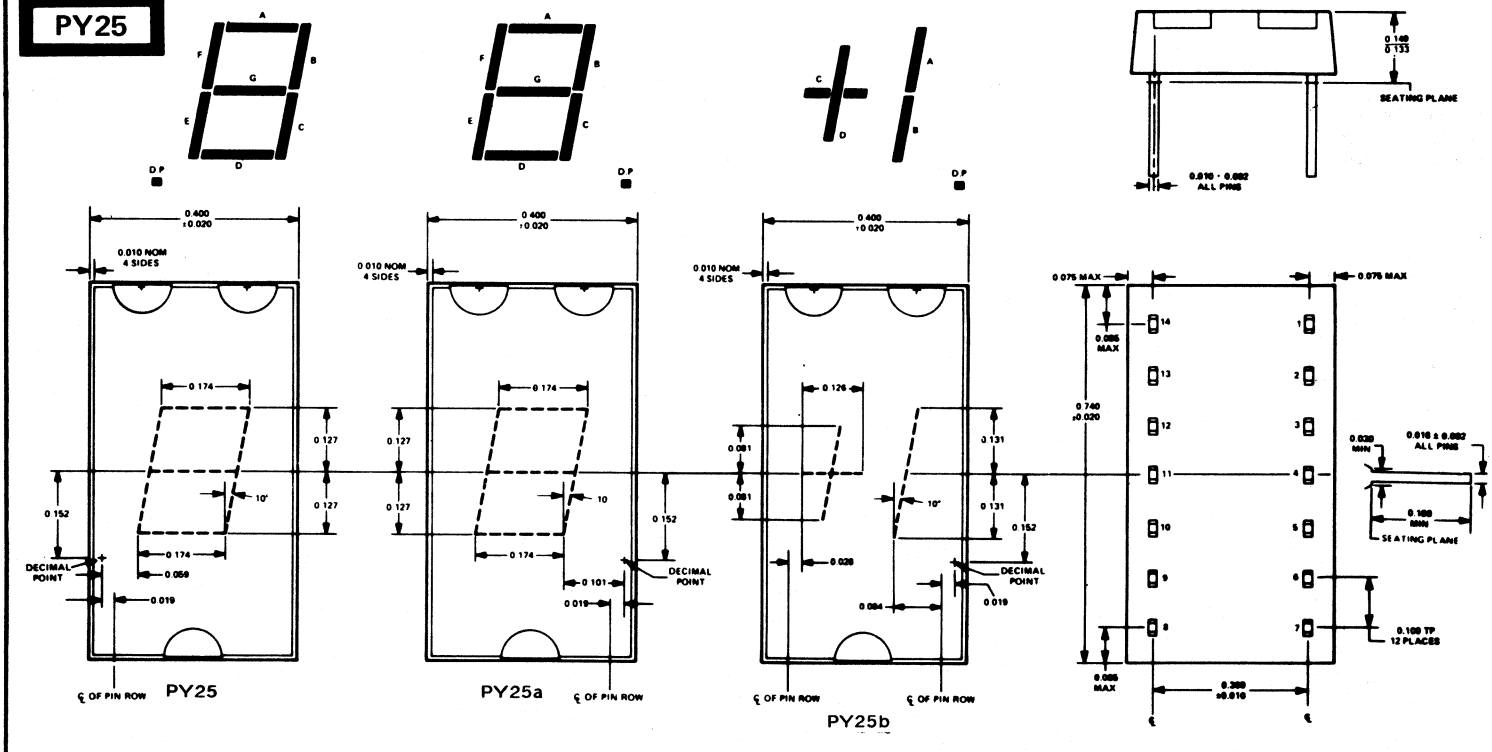
PY12



PY15



PY25

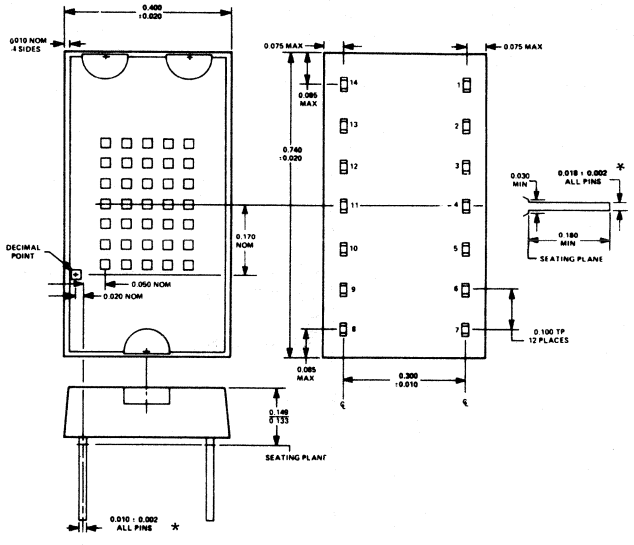


PIN 1 – CATHODE A
PIN 2 – CATHODE F
PIN 3 – ANODE E, F, G, & DECIMAL
PIN 4 – OMITTED
PIN 5 – OMITTED
PIN 6 – CATHODE DECIMAL
PIN 7 – CATHODE E
PIN 8 – CATHODE D
PIN 9 – ANODE C, D
PIN 10 – CATHODE C
PIN 11 – CATHODE G
PIN 12 – OMITTED
PIN 13 – CATHODE B
PIN 14 – ANODE A, B

PIN 1 – CATHODE A
PIN 2 – ANODE A, F
PIN 3 – CATHODE F
PIN 4 – CATHODE G
PIN 5 – OMITTED
PIN 6 – CATHODE E
PIN 7 – ANODE D, E, DECIMAL
PIN 8 – CATHODE D
PIN 9 – CATHODE C
PIN 10 – CATHODE DECIMAL
PIN 11 – OMITTED
PIN 12 – OMITTED
PIN 13 – ANODE B, C, G
PIN 14 – CATHODE B

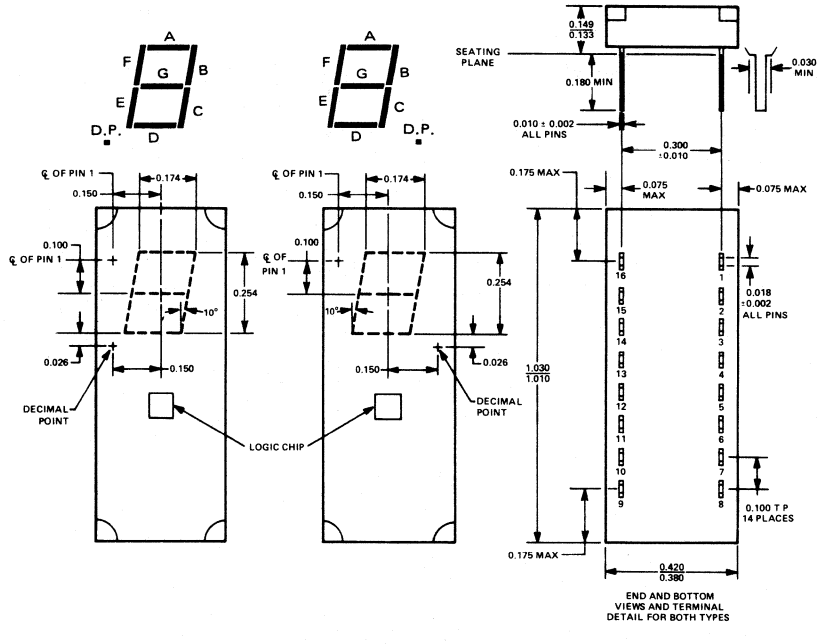
PIN 1 – ANODE C, D
PIN 2 – OMITTED
PIN 3 – OMITTED
PIN 4 – OMITTED
PIN 5 – OMITTED
PIN 6 – OMITTED
PIN 7 – CATHODE D
PIN 8 – CATHODE C
PIN 9 – CATHODE DECIMAL
PIN 10 – CATHODE B
PIN 11 – CATHODE A
PIN 12 – OMITTED
PIN 13 – OMITTED
PIN 14 – ANODE A, B, DECIMAL

PY26



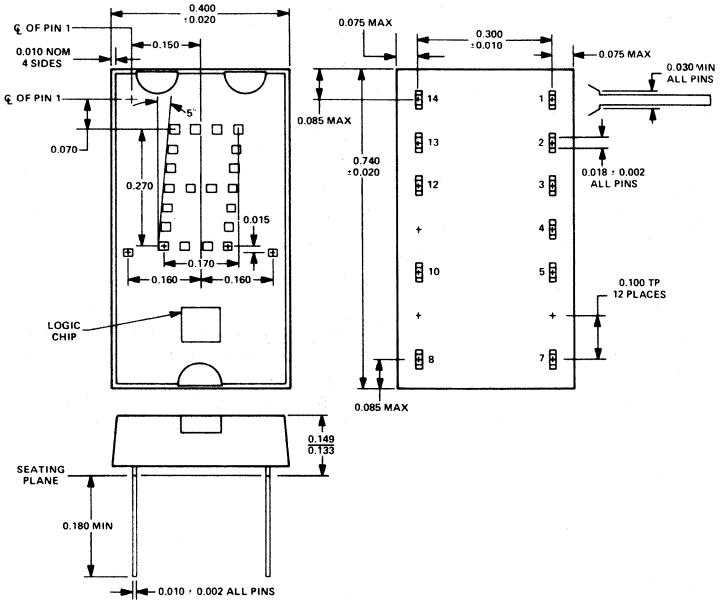
* PY26a: OPTIONAL .108 .002 PINS MAY BE SUBSTITUTED FOR LEAD FRAME SHOWN.

PY27

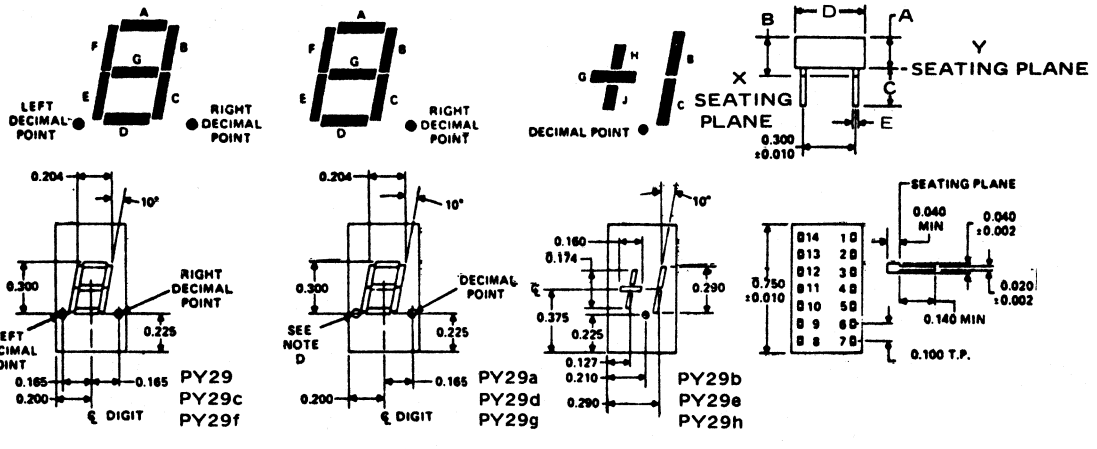


NOTES:
A. The true-position pin spacing is 0.100 between centerlines. Each pin centerline is located within 0.010 of its true longitudinal position relative to pins 1 and 16.
B. Centerlines of character segments and decimal points are shown as dashed lines. Associated dimensions are nominal.
C. Lead dimensions are not controlled above the seating plane.

PY28

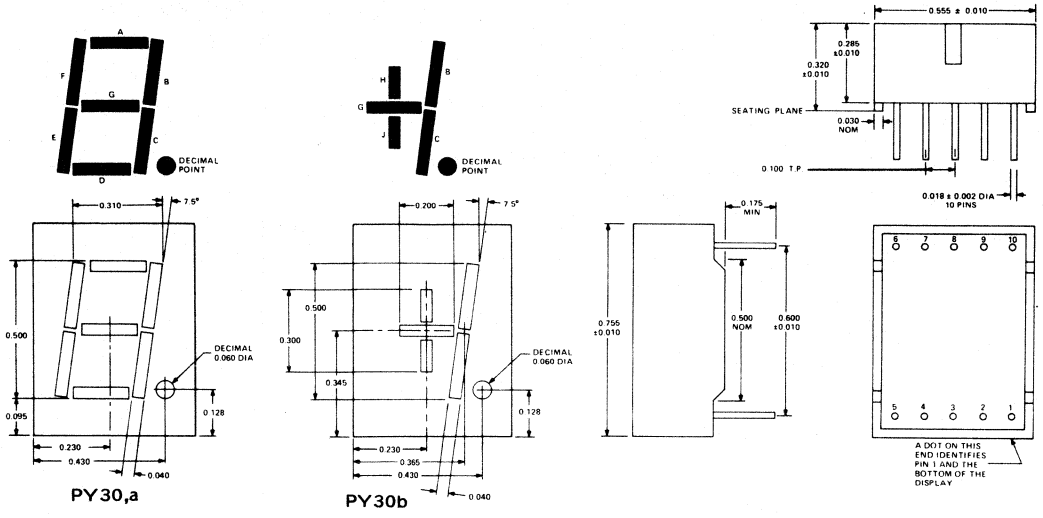


PY29



	A	B	C	D	E	SEATING PLANE
PY29	.100	.215 .240		.390 .410	.008 .012	X
PY29a	.100	.215 .240		.390 .410	.008 .012	X
PY29b	.100	.215 .240		.390 .410	.008 .012	X
PY29c	.215 .240		.140 MIN	.390 .410	.008 .012	Y
PY29d	.215 .240		.140 MIN	.390 .410	.008 .012	Y
PY29e	.215 .240		.140 MIN	.390 .410	.008 .012	Y
PY29f	.215 .245		.140 MIN	.400 .420	.018 .022	Y
PY29g	.215 .245		.140 MIN	.400 .420	.018 .022	Y
PY29h	.215 .245		.140 MIN	.400 .420	.018 .022	Y
PY29J	.175 .185	.215 .240		.400 .420	.008 .012	

PY30



PY30,a PY30b

PY30

PIN 1 CATHODE E
PIN 2 CATHODE D
PIN 3 ANODE: DIGIT & DECIMAL
PIN 4 CATHODE C
PIN 5 CATHODE DECIMAL
PIN 6 CATHODE B
PIN 7 CATHODE A
PIN 8 ANODE: DIGIT & DECIMAL
PIN 9 CATHODE F
PIN 10 CATHODE G

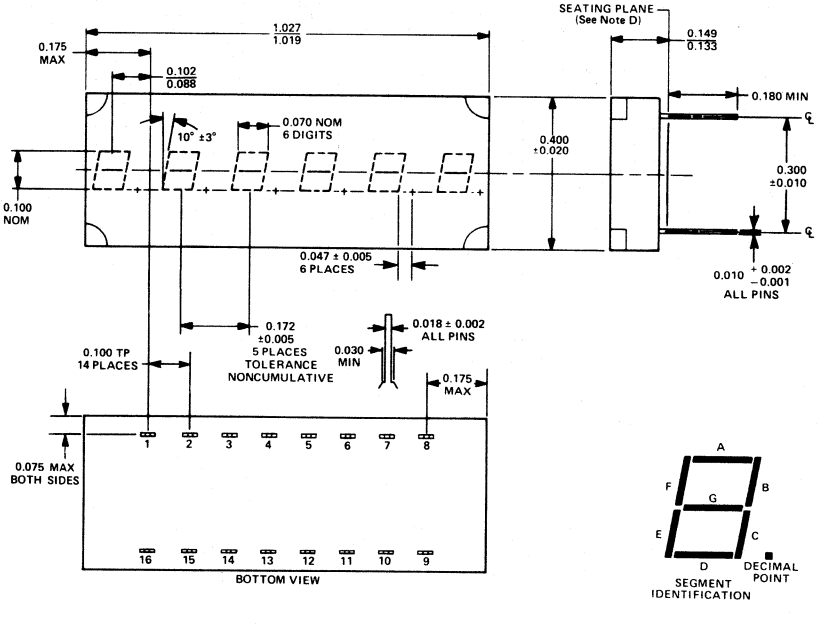
PY30a

PIN 1 ANODE E
PIN 2 ANODE D
PIN 3 CATHODE: DIGIT & DECIMAL
PIN 4 ANODE C
PIN 5 ANODE DECIMAL
PIN 6 ANODE B
PIN 7 ANODE A
PIN 8 CATHODE: DIGIT & DECIMAL
PIN 9 ANODE F
PIN 10 ANODE G

PY30b

PIN 1 CATHODE J
PIN 2 NO INTERNAL CONNECTION
PIN 3 ANODE: PLUS/MINUS ONE & DECIMAL
PIN 4 CATHODE C
PIN 5 CATHODE DECIMAL
PIN 6 CATHODE B
PIN 7 NO INTERNAL CONNECTION
PIN 8 ANODE: PLUS/MINUS ONE & DECIMAL
PIN 9 CATHODE H
PIN 10 CATHODE G

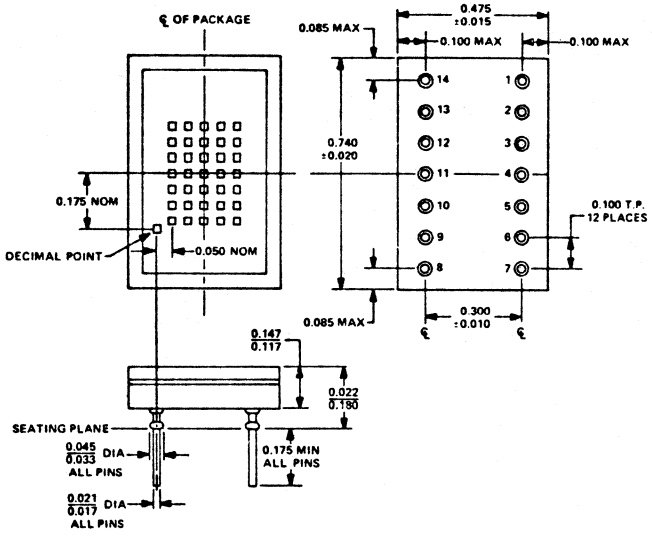
PY31



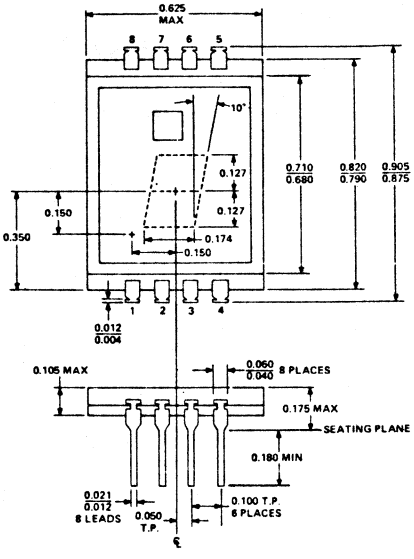
49. OUTLINE DRAWINGS

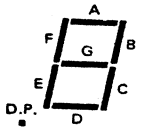
IN DRAWING NUMBER SEQUENCE

PY36

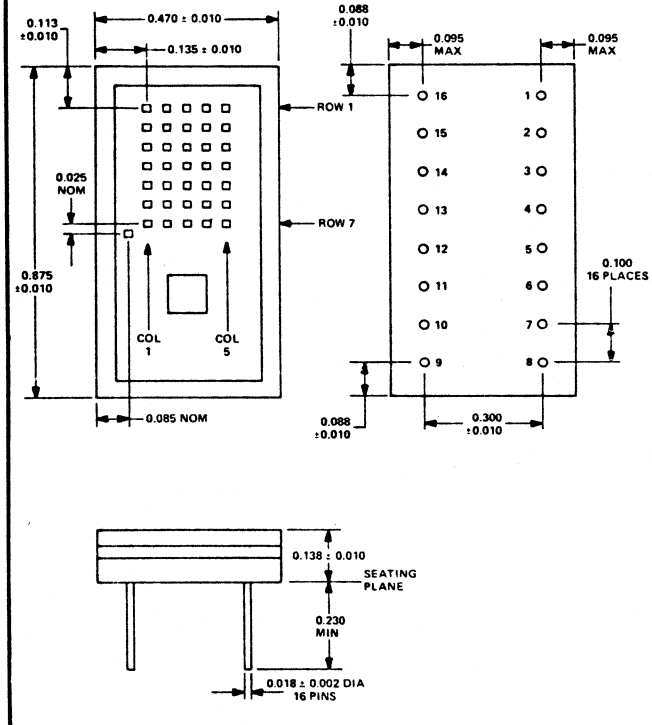


PY38

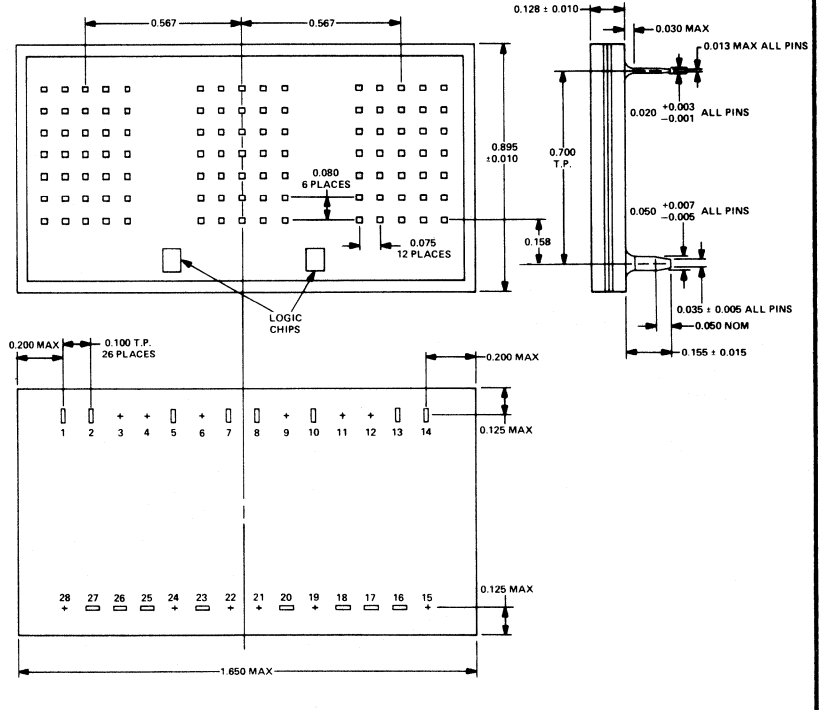




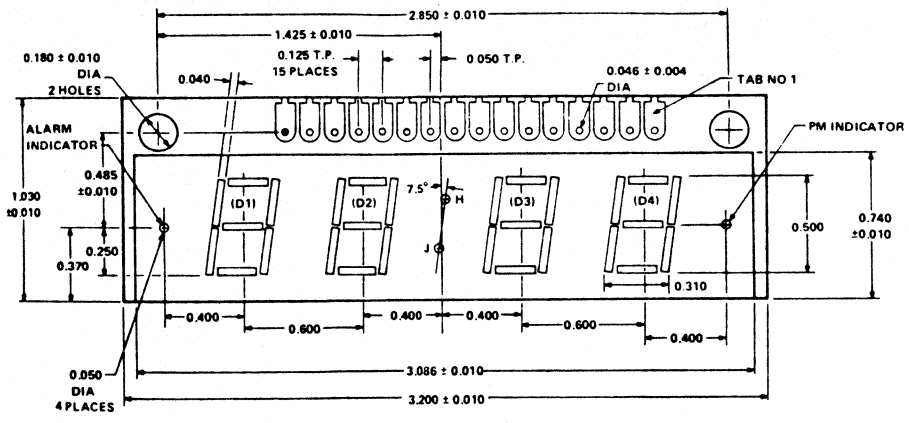
PY39

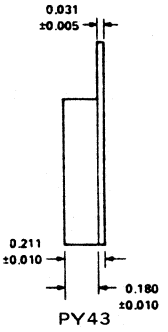


PY41



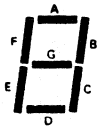
PY43



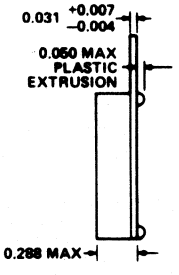


PY43

TAB 1 PM-INDICATOR CATHODE
TAB 2 PM-INDICATOR ANODE
TAB 3 D-SEGMENT ANODES
TAB 4 C-SEGMENT ANODES
TAB 5 B-SEGMENT ANODES
TAB 6 A-SEGMENT ANODES
TAB 7 E-SEGMENT ANODES
TAB 8 F-SEGMENT ANODES
TAB 9 G-SEGMENT ANODES
TAB 10 DIGIT 1 & ALARM INDICATOR CATHODES
TAB 11 DIGIT 2 CATHODES
TAB 12 COLON SEGMENT H ANODE
TAB 13 COLON SEGMENT J ANODE
TAB 14 COLON SEGMENT H & DIGIT 4 CATHODE
TAB 15 ALARM INDICATOR ANODE
TAB 16 COLON SEGMENT J & DIGIT 3 CATHODE

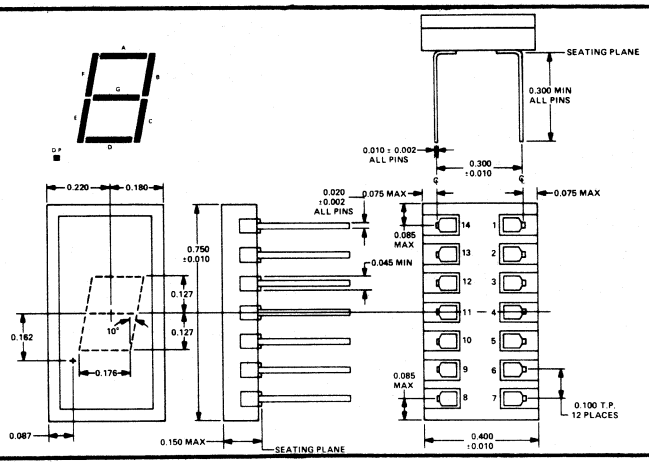


SEGMENT IDENTIFICATION



PY43a

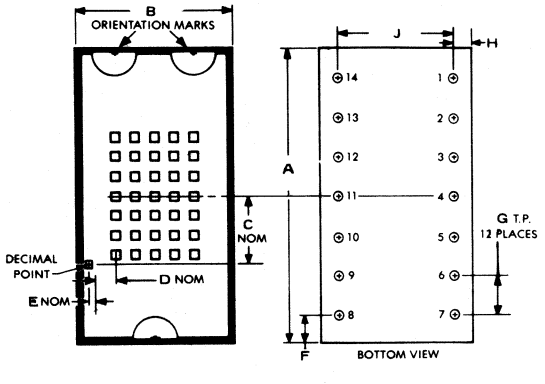
PY44

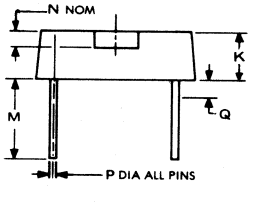


PIN 1 – CATHODE A
PIN 2 – CATHODE F
PIN 3 – ANODE E, F, G, & DECIMAL
PIN 4 – NC
PIN 5 – NC
PIN 6 – CATHODE DECIMAL
PIN 7 – CATHODE E
PIN 8 – CATHODE D
PIN 9 – ANODE C, D
PIN 10 – CATHODE C
PIN 11 – CATHODE G
PIN 12 – NC
PIN 13 – CATHODE B
PIN 14 – ANODE A, B

NC – No internal connection

PY50



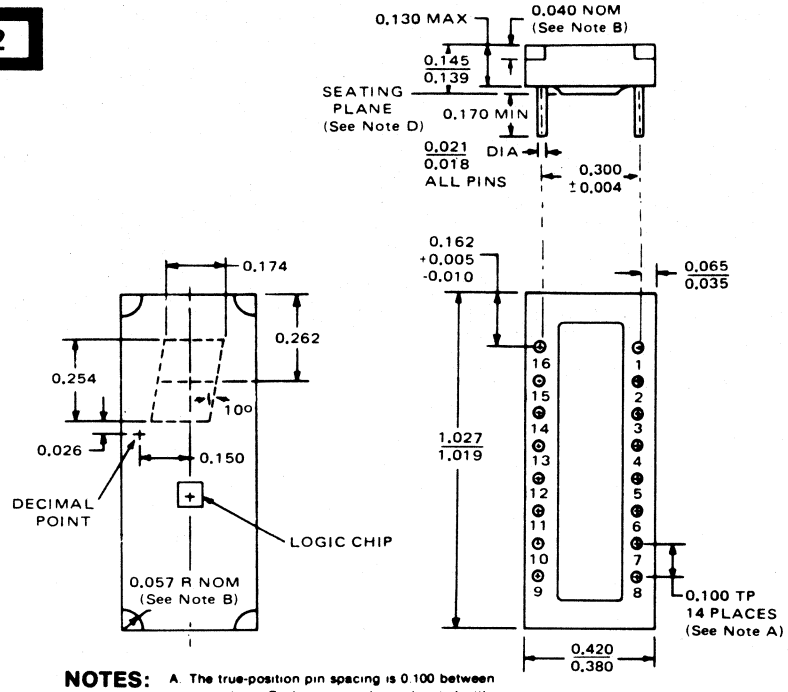


	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
PY50	.720	.380	.170	.050	.020	.055	.100	.035	.296	.110	.145	.040	.018	.040
	.760	.420				.085		.065	.304	.130	MIN		.021	
PY50a	.740	.400	.170				.100		.300	.120	.300		.020	

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY52



NOTES:

A. The true-position pin spacing is 0.100 between centerlines. Each pin centerline is located within 0.010 of its true longitudinal position relative to pins 2 and 15.

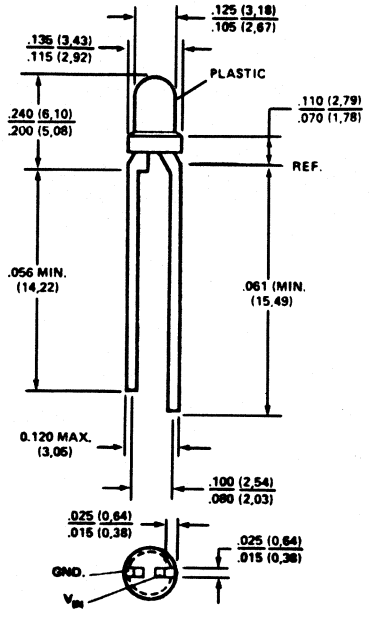
B. Nominal dimensions of all four corner notches are the same.

C. Centerlines of character segments and decimal points are shown as dashed lines. Associated dimensions are nominal.

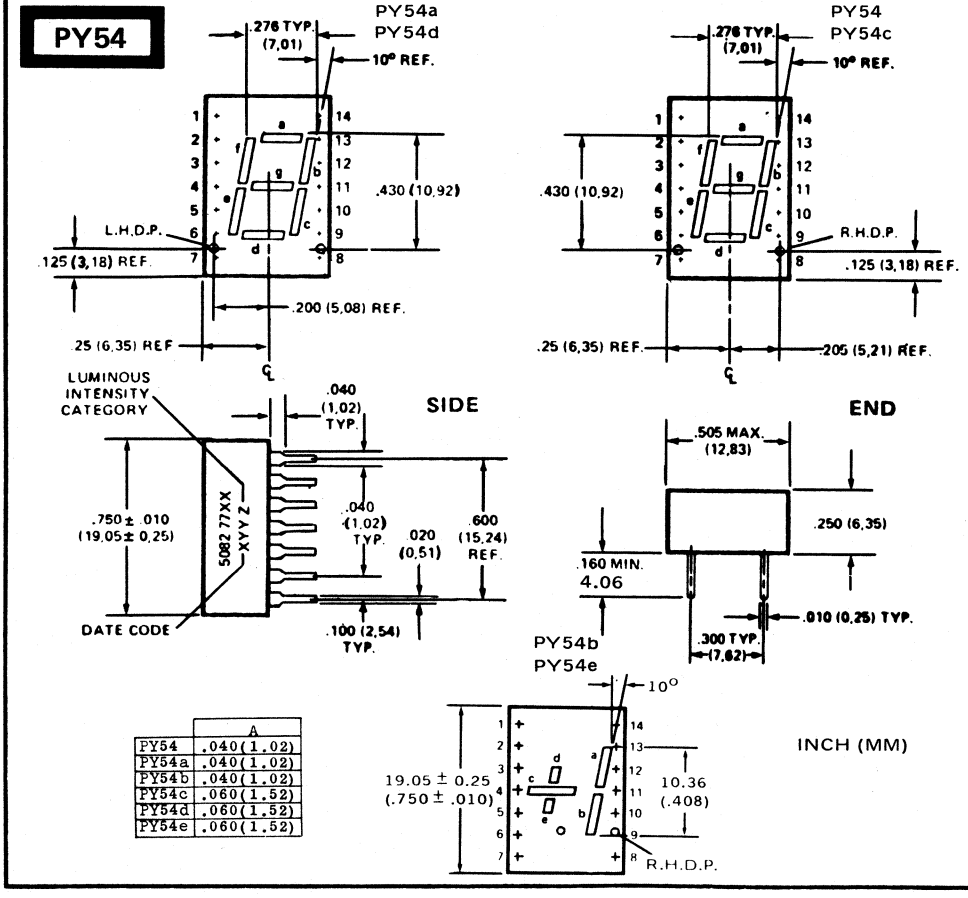
D. Lead diameter is not controlled above the seating plane.

E. All dimensions are in inches unless otherwise specified.

PY53

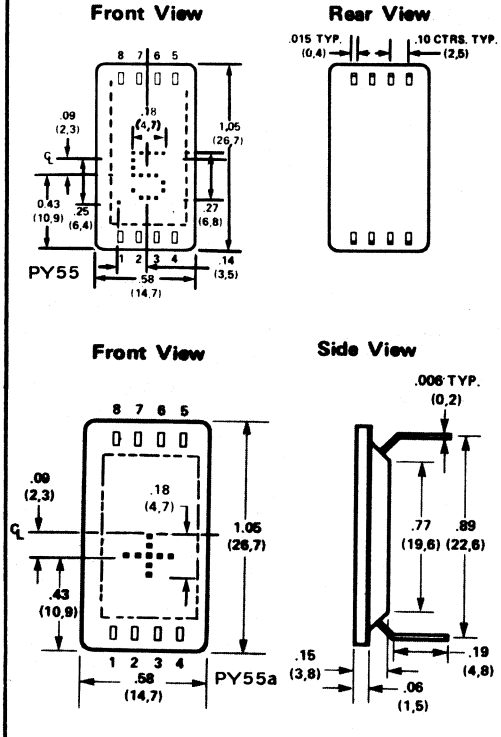


PY54



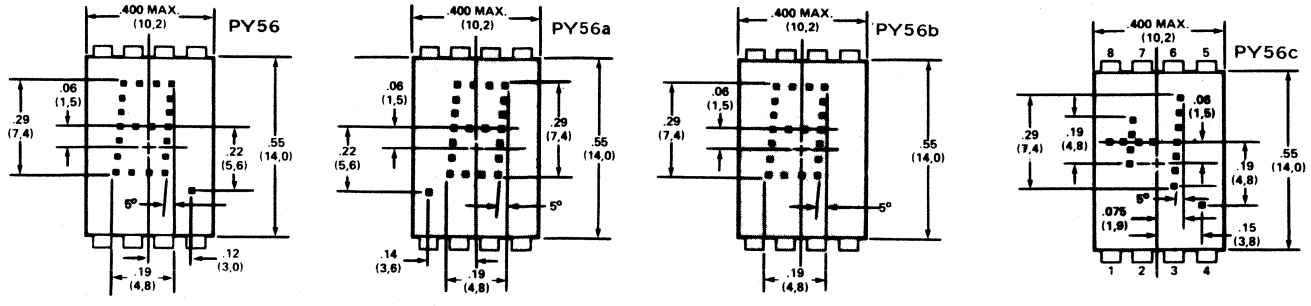
	A
PY54	.040(1.02)
PY54a	.040(1.02)
PY54b	.040(1.02)
PY54c	.060(1.52)
PY54d	.060(1.52)
PY54e	.060(1.52)

PY55

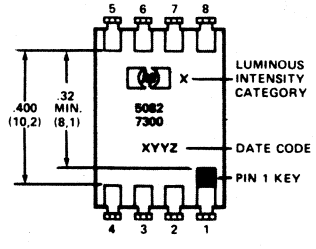


PY56

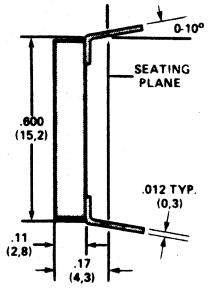
FRONT VIEW



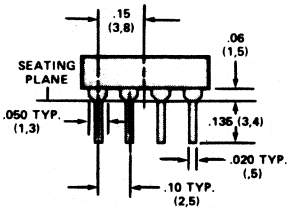
REAR VIEW

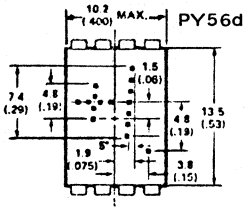


SIDE VIEW

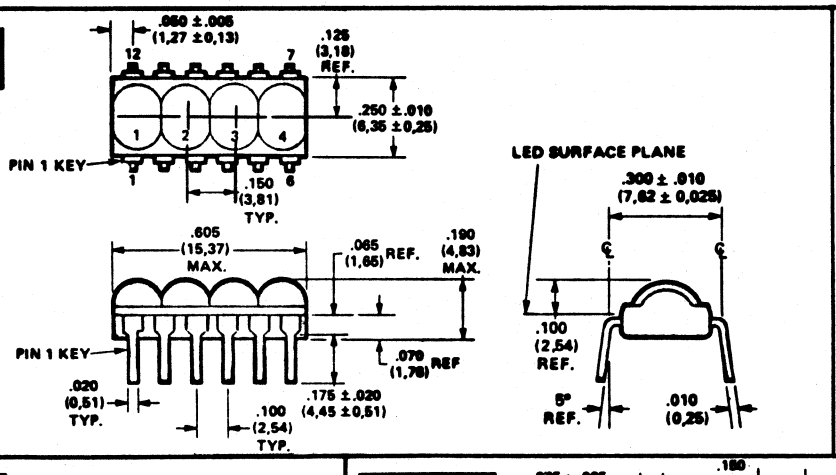


END VIEW

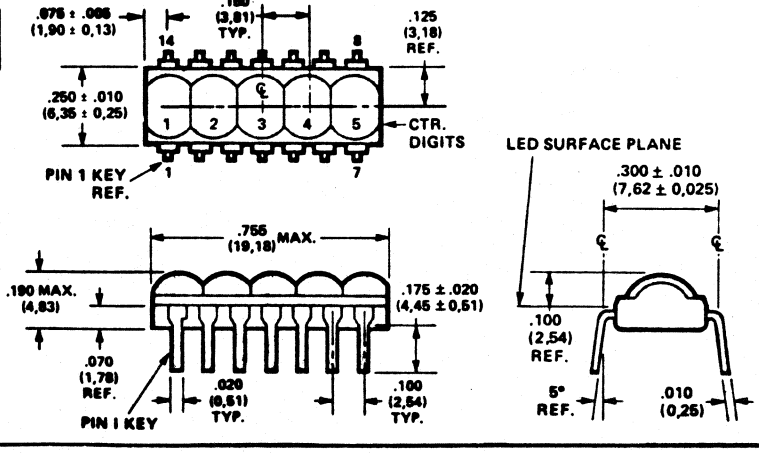




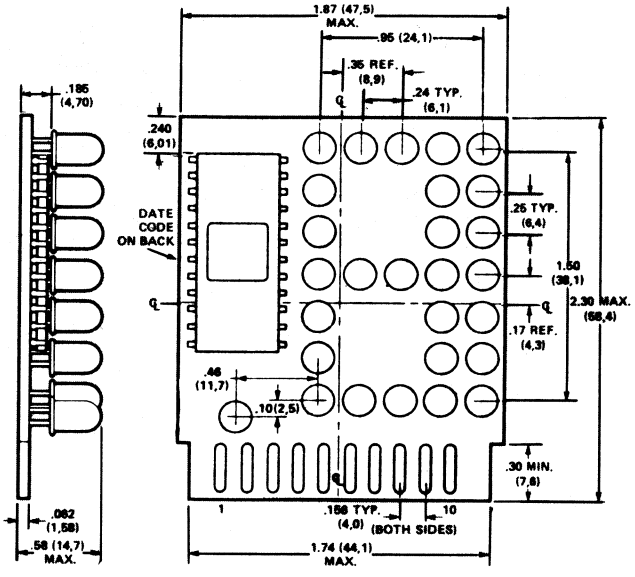
PY57



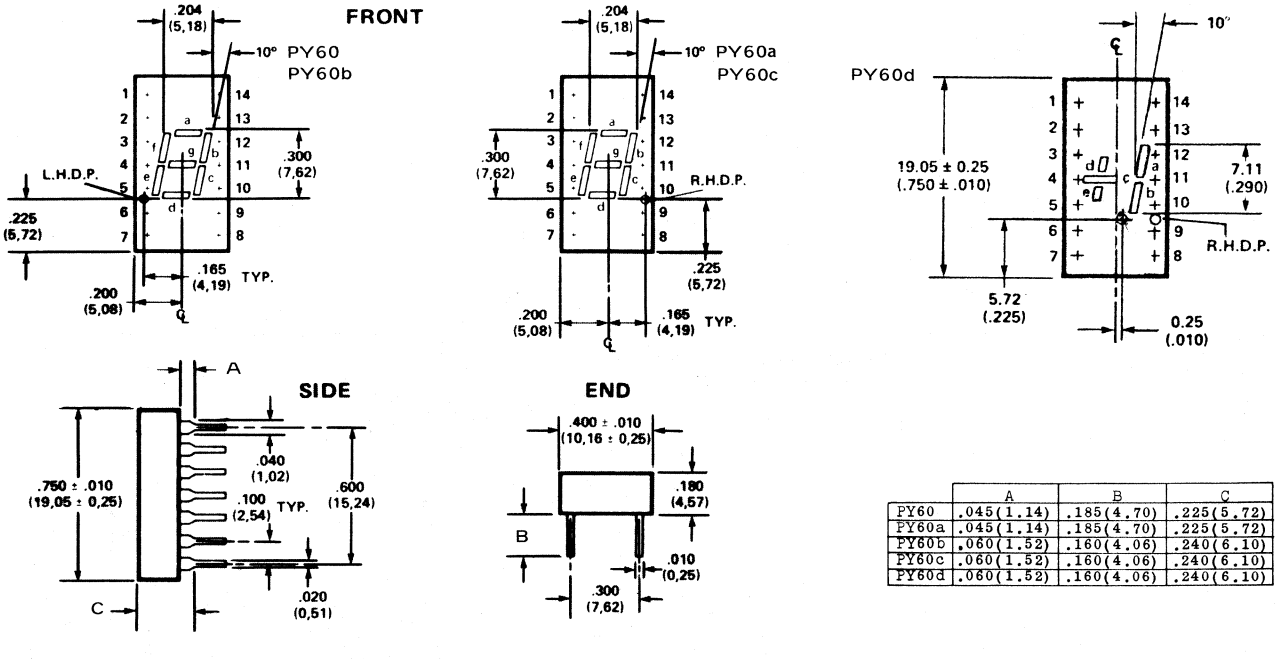
PY58



PY59



PY60



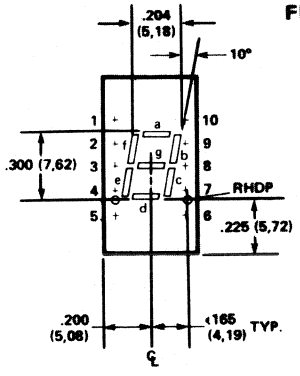
	A	B	C
PY60	.045(1.14)	.185(4.70)	.225(5.72)
PY60a	.045(1.14)	.185(4.70)	.225(5.72)
PY60b	.060(1.52)	.160(4.06)	.240(6.10)
PY60c	.060(1.52)	.160(4.06)	.240(6.10)
PY60d	.060(1.52)	.160(4.06)	.240(6.10)

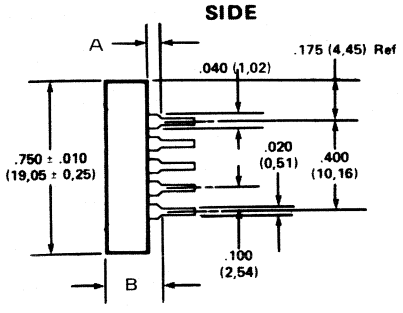
INCHES (MM)

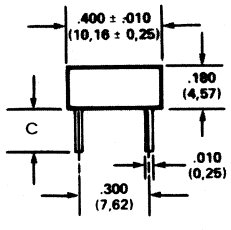
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY61



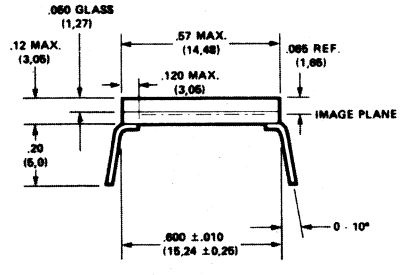


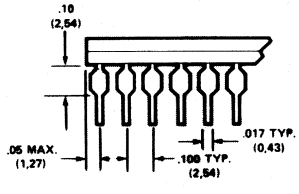


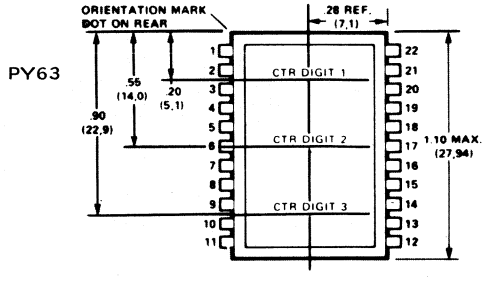
	A	B	C
PY61	.045(1.14)	.225(5.72)	.185(4.70)
PY61a	.060(1.52)	.240(6.10)	.160(4.06) MIN

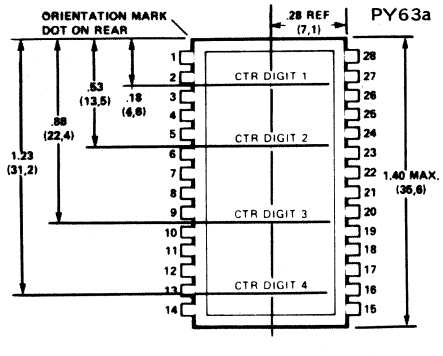
INCH (MM)

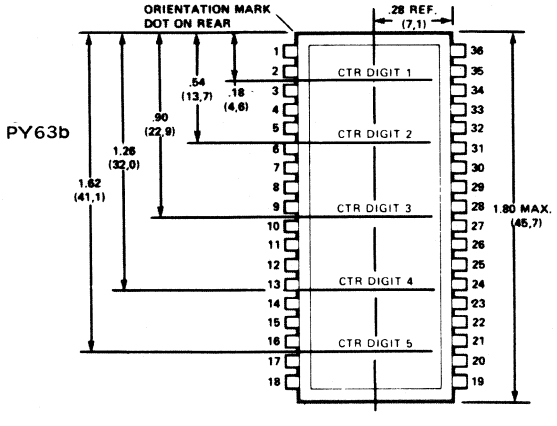
PY63



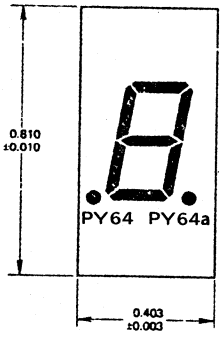


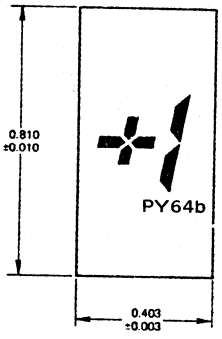


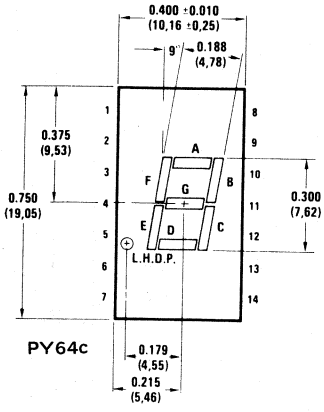


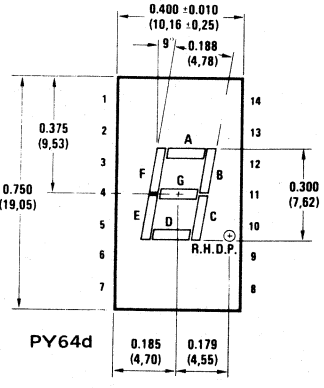


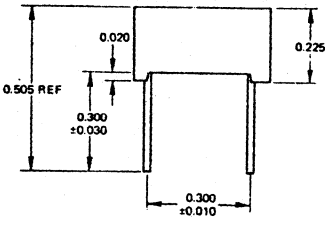
PY64

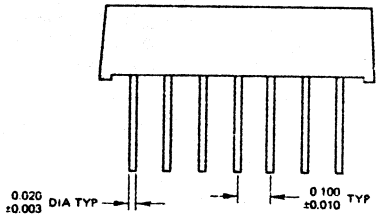


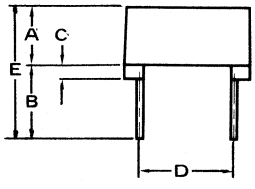






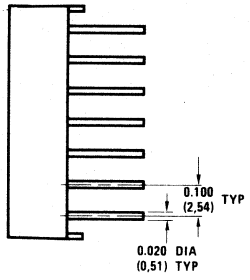


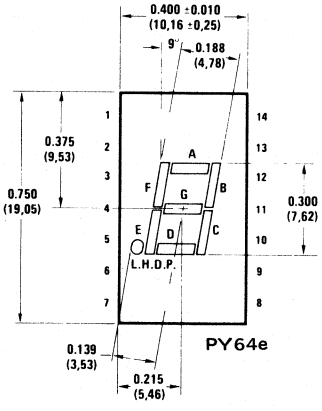


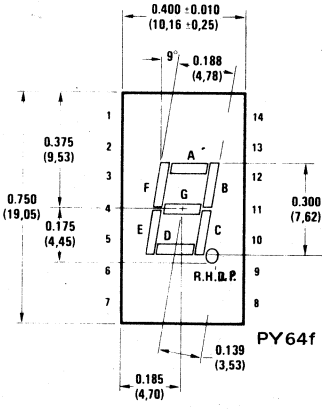


PIN	FUNCTION
1	ANODE F
2	ANODE G
3	NO PIN
4	ANODE E
5	NO PIN
6	CATHODE DP
7	ANODE DP
8	ANODE D
9	ANODE C
10	NO PIN
11	CATHODE COMMON
12	NO PIN
13	ANODE B
14	ANODE A

PY64c,d



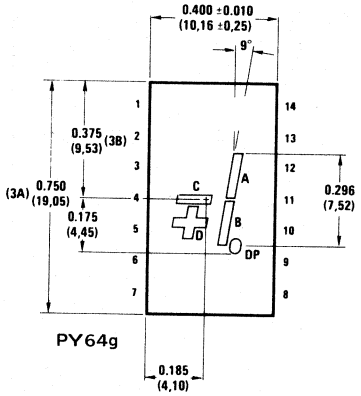




PIN	FUNCTION
1	CATHODE A
2	CATHODE F
3	ANODE*
4	NO PIN
5	NO PIN
6	CATHODE DP
7	CATHODE E
8	CATHODE D
9	ANODE*
10	CATHODE C
11	CATHODE G
12	NO PIN
13	CATHODE B
14	ANODE*

*Common redundant anodes

PY64e,f



PIN	FUNCTION
1	ANODE C, D*
2	NO PIN
3	ANODE C, D*
4	NO PIN
5	NO PIN
6	NO PIN
7	CATHODE D
8	CATHODE C
9	CATHODE D. P.
10	CATHODE B
11	CATHODE A
12	NO PIN
13	NO PIN
14	ANODE A, B, DP

*Common redundant anodes.

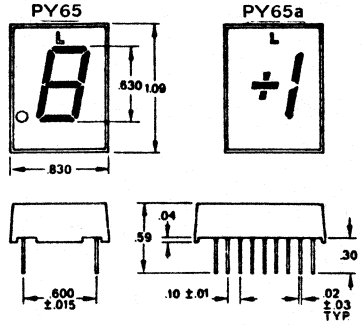
PY64g

	A	B	C	D	E
PY64,a,b			.020	.290 .310	.505
PY64,c-g	.188	.240	.047	.300	

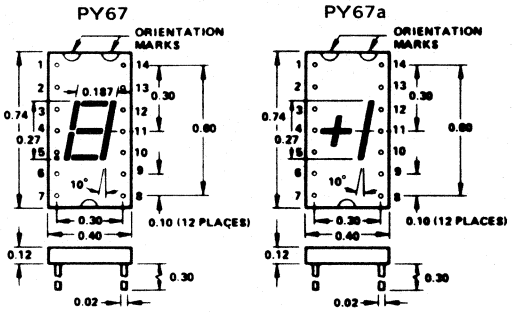
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

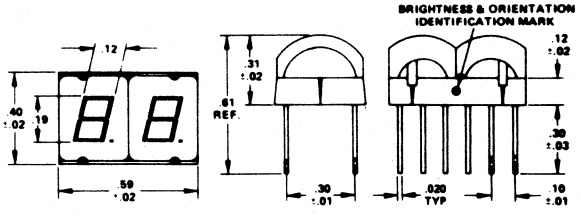
PY65



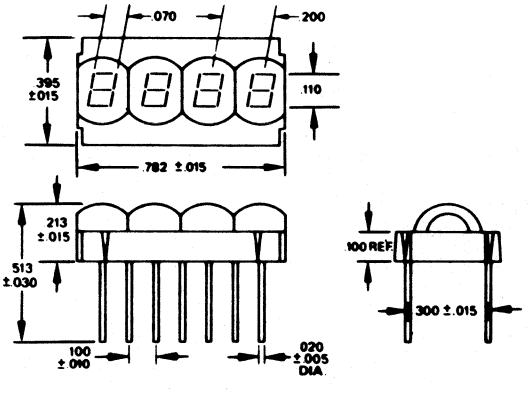
PY67



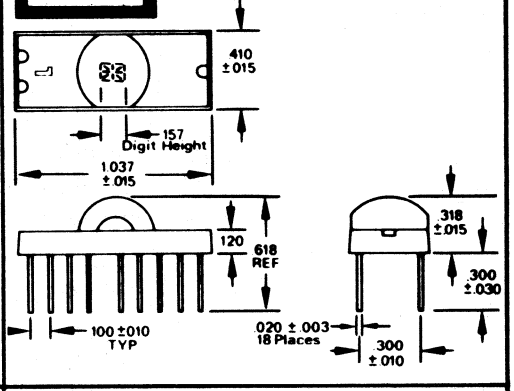
PY70



PY79



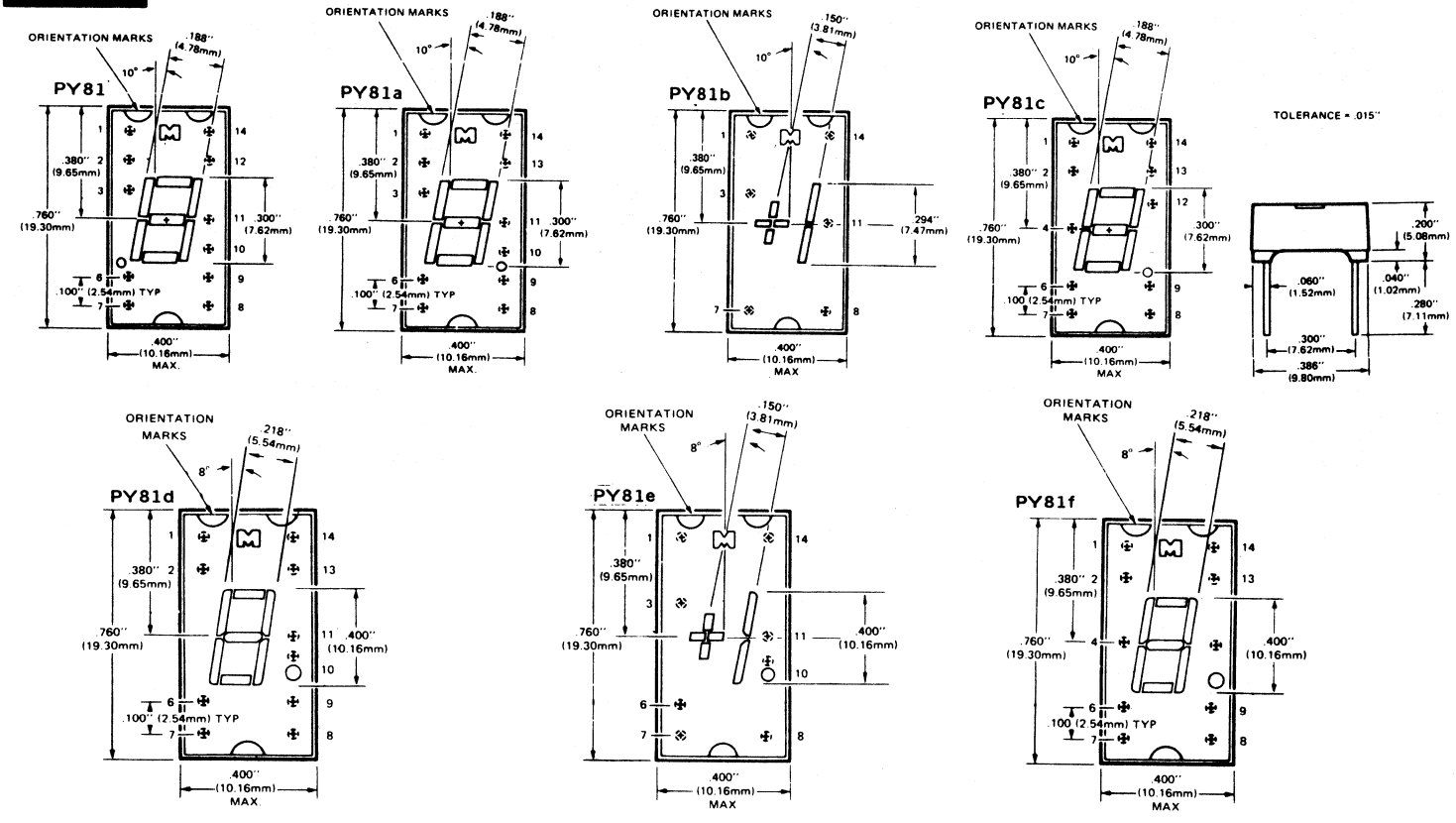
PY80



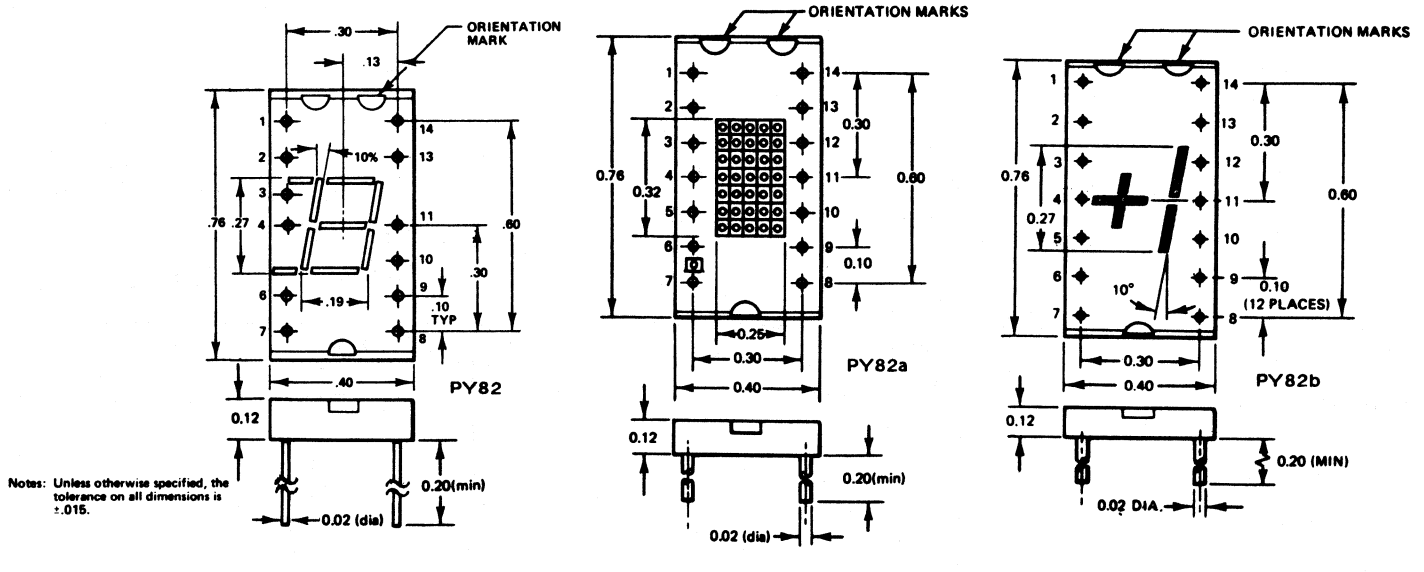
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY81



PY82

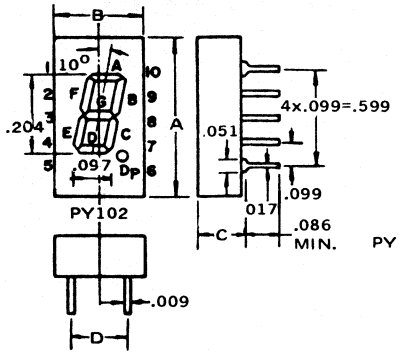


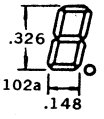
Notes: Unless otherwise specified, the tolerance on all dimensions is ±.015.

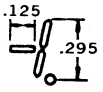
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY102

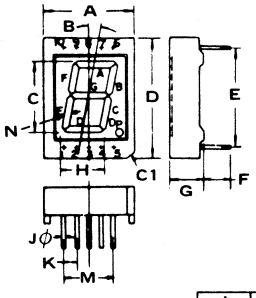


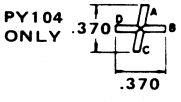


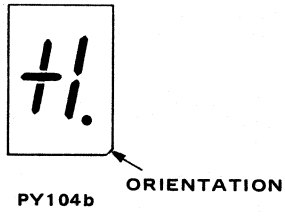


	A	B	C	D
PY102	.551	.236	.177	.125
PY102a,b	.649	.354	.216	.224

PY104

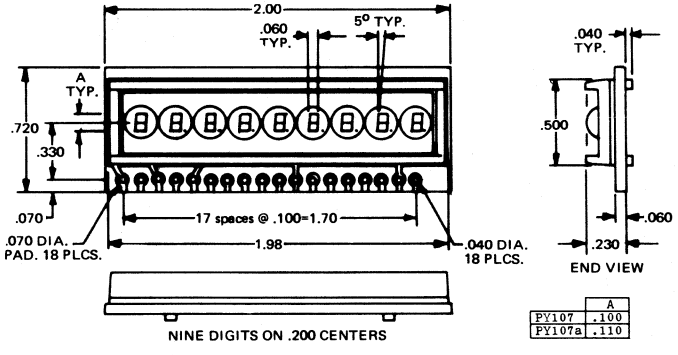






	A	B	C	D	E	F	G	H	J	K	M	N
PY104	.708	10°	.590	.984	.787	.086 MIN	.322	.354	.017	.099	.399	
PY104a	.721		.600	.996	.787	.142	.331	.354		.100	.400	.047
PY104b	.700 .720		.600	.975 .995	.787	.100	.331 MAX		.020	.100	.400	

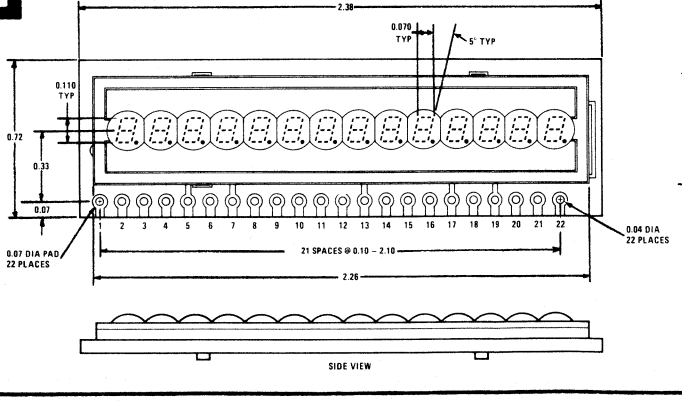
PY107

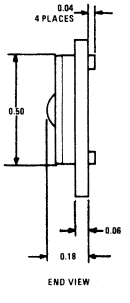


	A
PY107	.100
PY107a	.110

PIN	
1	NC
2	DIGIT 1 CATHODE
3	SEGMENT C ANODE
4	DIGIT 2 CATHODE
5	SEGMENT DP ANODE
6	DIGIT 3 CATHODE
7	SEGMENT A ANODE
8	DIGIT 4 CATHODE
9	SEGMENT E ANODE
10	DIGIT 5 CATHODE
11	SEGMENT D ANODE
12	DIGIT 6 CATHODE
13	SEGMENT G ANODE
14	DIGIT 7 CATHODE
15	SEGMENT B ANODE
16	DIGIT 8 CATHODE
17	SEGMENT F ANODE
18	DIGIT 9 CATHODE

PY108

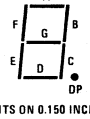




Pin Connections

PIN 1	DIGIT 1 CATHODE
PIN 2	DIGIT 2 CATHODE
PIN 3	DIGIT 3 CATHODE
PIN 4	DIGIT 4 CATHODE
PIN 5	SEGMENT C ANODE
PIN 6	DIGIT 5 CATHODE
PIN 7	SEGMENT DP ANODE
PIN 8	DIGIT 6 CATHODE
PIN 9	SEGMENT A ANODE
PIN 10	DIGIT 7 CATHODE
PIN 11	SEGMENT E ANODE
PIN 12	DIGIT 8 CATHODE
PIN 13	SEGMENT D ANODE
PIN 14	DIGIT 9 CATHODE
PIN 15	SEGMENT G ANODE
PIN 16	DIGIT 10 CATHODE
PIN 17	SEGMENT B ANODE
PIN 18	DIGIT 11 CATHODE
PIN 19	SEGMENT F ANODE
PIN 20	DIGIT 12 CATHODE
PIN 21	DIGIT 13 CATHODE
PIN 22	DIGIT 14 CATHODE

Segment Designation

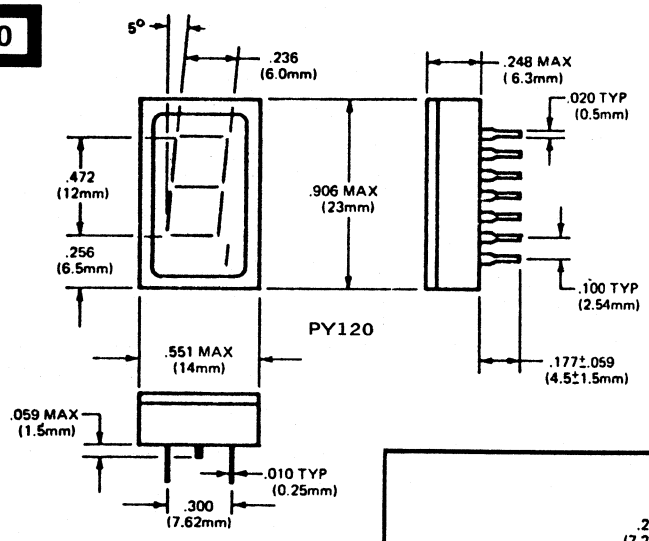


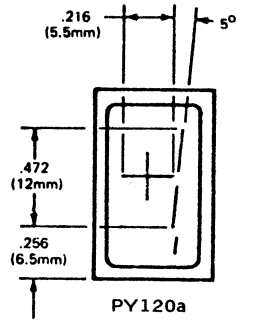
ALL DIGITS ON 0.150 INCH CENTERS

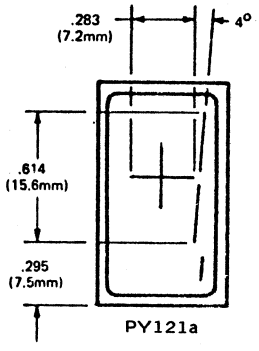
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

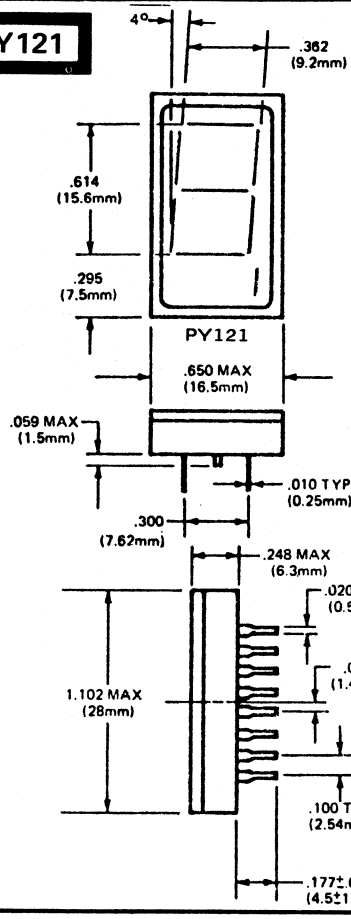
PY120



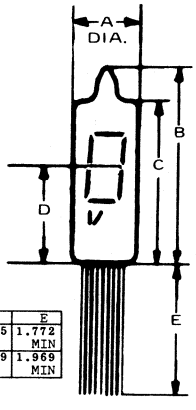




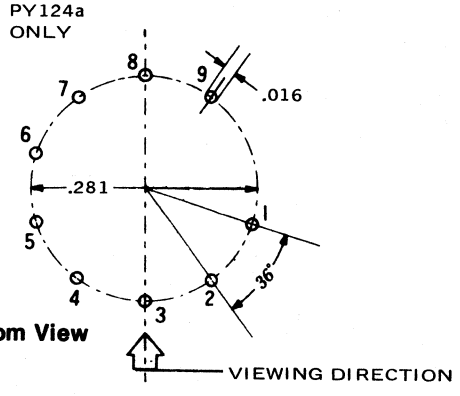
PY121



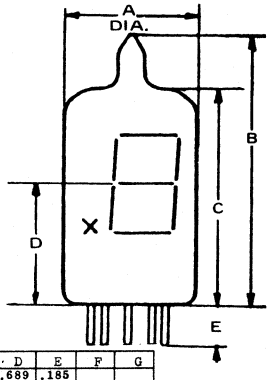
PY124



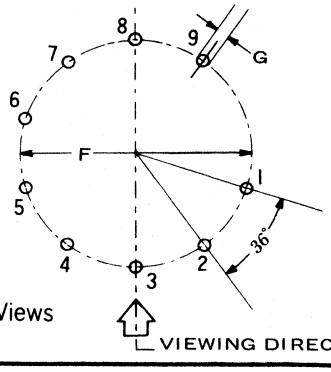
	A	B	C	D	E
PY124	.394 MAX	1.810 MAX	.984	.575	1.772 MIN
PY124a	.512 MAX	1.496 MAX	1.220	.689	1.969 MIN



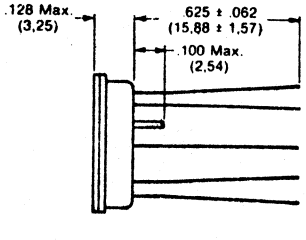
PY125

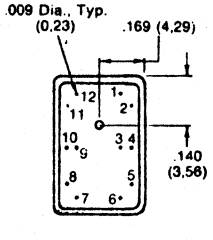


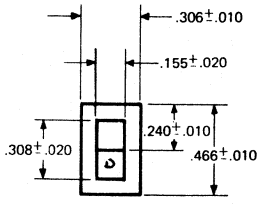
	A	B	C	D	E	F	G
PY125	.512 MAX	1.496 MAX	1.220	.689	.185 MAX		
PY125a	.512 MAX	1.496 MAX	1.220	.689	.217 MAX	.230	.020
PY125b	.779 MAX	1.622 MAX	1.279	.728	.248	.468	.040
PY125c	.785 MAX	1.625 MAX	1.188 1.312	.700 .730	.250 MAX		
PY125d	.810 MAX	1.625 MAX		.700 .730	.250 MAX	.468	.040
PY125e	.512 MAX	1.450 MAX		.625 .665	.250 MAX	.230	.020



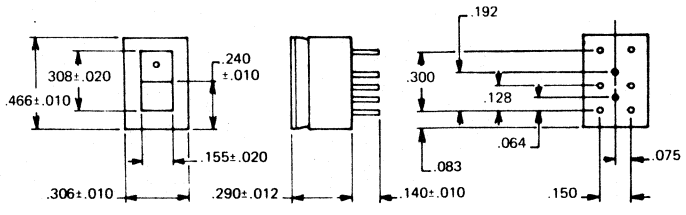
PY126

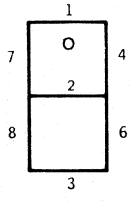




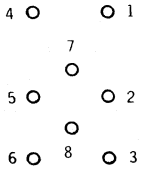


PY127



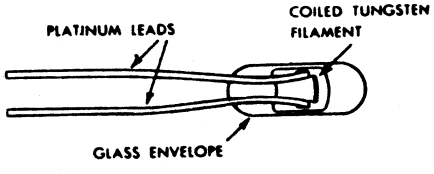


FRONT VIEW

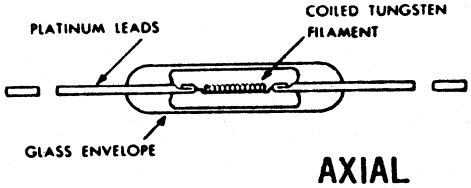


REAR VIEW

PY128



LENS LAMP

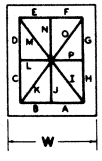


AXIAL

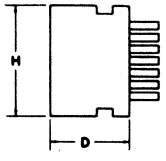
	BULB LENGTH	BULB DIA	LEAD DIA
PY128	.080	.030	.004
PY128a	.070	.015	.003
PY128b	.125	.030	.005
PY128c	.250	.040	.005

PY129

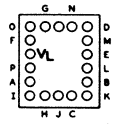
	H HEIGHT	W WIDTH	D DEPTH
PY129	.375	.335	.312
PY129a	.465	.375	.312

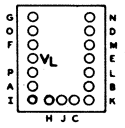


PY129



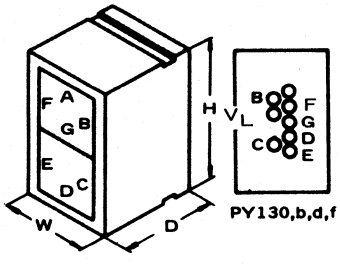
PY129a





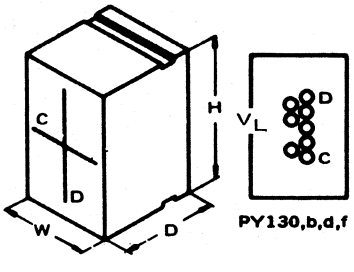
PY130

DIGIT



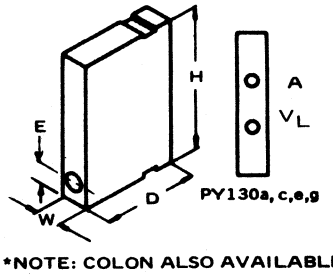
PY130,b,d,f

PLUS/MINUS (PM)



PY130,b,d,f

DECIMAL POINT* (DP)

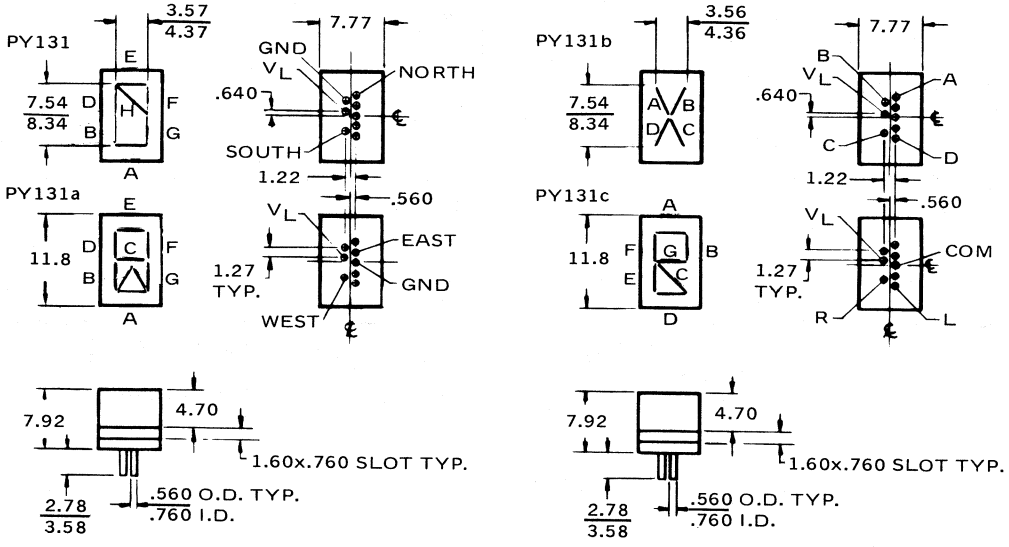


PY130a, c,e,g

*NOTE: COLON ALSO AVAILABLE

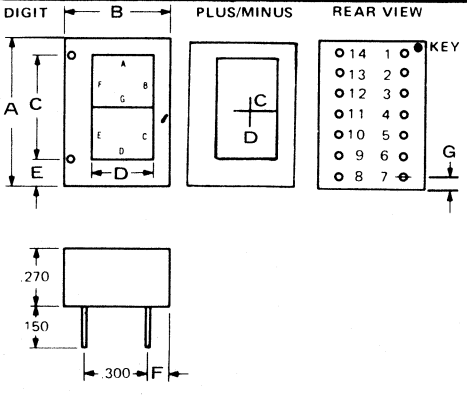
	H	W	D	E
PY130	.305	.225	.312	
PY130a	.305	.075	.312	.085
PY130b	.375	.275	.312	
PY130c	.375	.075	.312	.065
PY130d	.468	.306	.312	
PY130e	.465	.100	.312	.085
PY130f	.625	.425	.312	
PY130g	.625	.100	.312	.085

PY131



DIMENSIONS IN mm TOLERANCE ± .127

PY132



Pin Spacing · 100 in.
Pin Dia. · .020 in.

PIN CONNECTIONS

DIGITAL DISPLAYS

Pin 1	A Segment	Pin 8	D Segment
Pin 2	F Segment	Pin 9	NC
Pin 3	Lamp VL	Pin 10	C Segment
Pin 4	Lamp R	Pin 11	G Segment
Pin 5	NC	Pin 12	NC
Pin 6	Lamp L	Pin 13	B Segment
Pin 7	E Segment	Pin 14	NC

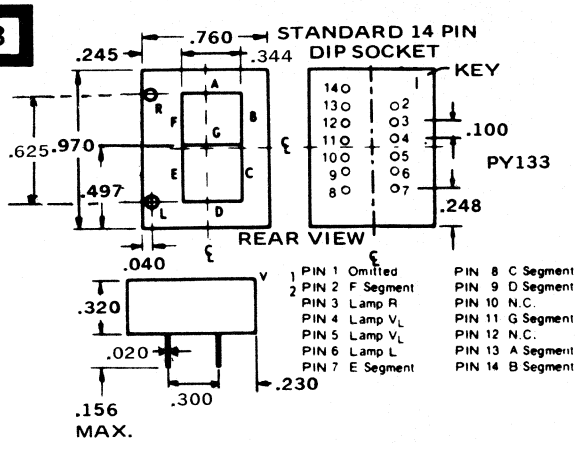
NOTE: IN PY132a PINS 9 AND 14 ARE OMITTED.

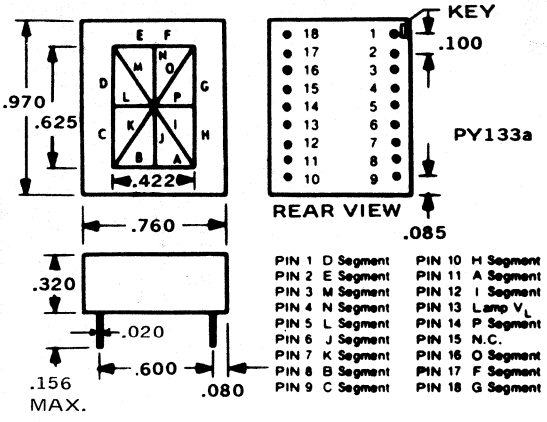
	A	B	C	D	E	F	G
PY132	.740	.400	.312	.156	.219	.050	.070
PY132a	.700	.500	.453	.250	.156	.100	.025

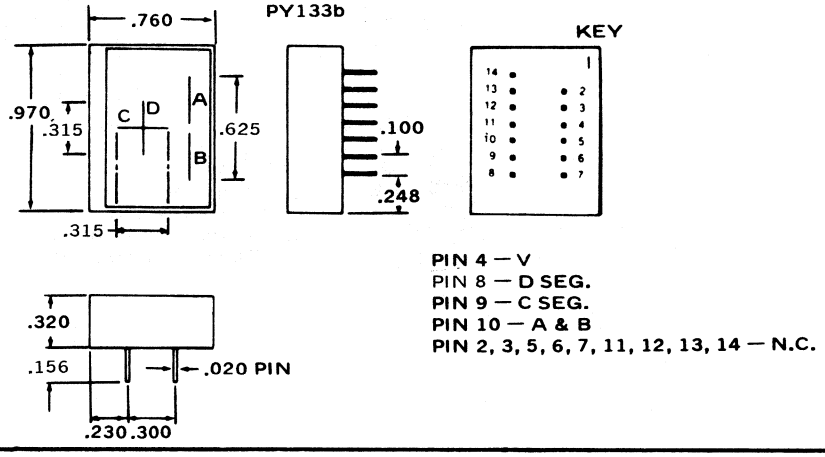
PLUS/MINUS DISPLAYS

Pin 3	V_L	
Pin 10	D Segment	Pins 1, 2, 4, 5, 6, 7, 8,
Pin 11	C Segment	9, 12, 13 & 14 –NC

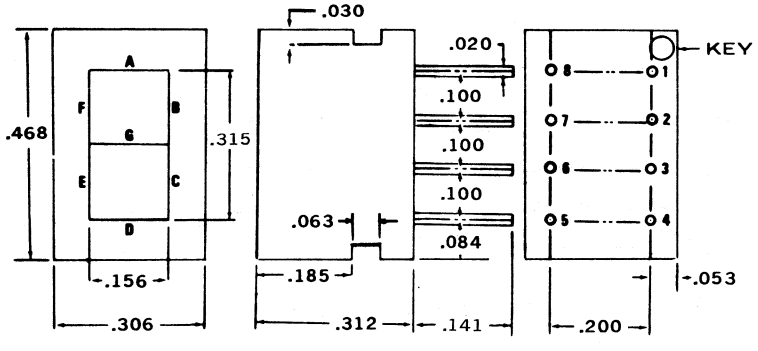
PY133


.760
.344
STANDARD 14 PIN DIP SOCKET
.245
KEY
.625
.970
.497
.100
PY133
.248
REAR VIEW
.040
.320
.020
.300
.230
.156 MAX.
PIN 1 Omitted
PIN 2 F Segment
PIN 3 Lamp R
PIN 4 Lamp V_L
PIN 5 Lamp V_L
PIN 6 Lamp L
PIN 7 E Segment
PIN 8 C Segment
PIN 9 D Segment
PIN 10 N.C.
PIN 11 G Segment
PIN 12 N.C.
PIN 13 A Segment
PIN 14 B Segment

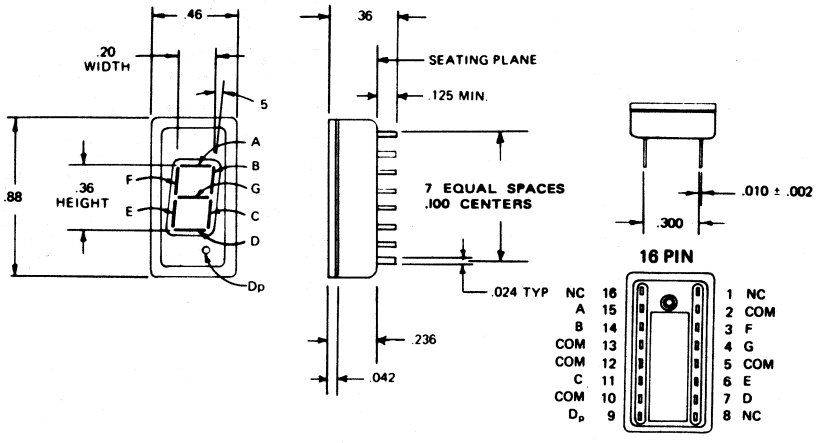

KEY
.100
PY133a
.970
.625
.422
REAR VIEW
.085
.760
.320
.020
.600
.080
.156 MAX.
PIN 1 D Segment
PIN 2 E Segment
PIN 3 M Segment
PIN 4 N Segment
PIN 5 L Segment
PIN 6 J Segment
PIN 7 K Segment
PIN 8 B Segment
PIN 9 C Segment
PIN 10 H Segment
PIN 11 A Segment
PIN 12 I Segment
PIN 13 Lamp V_L
PIN 14 P Segment
PIN 15 N.C.
PIN 16 O Segment
PIN 17 F Segment
PIN 18 G Segment


.760
PY133b
KEY
.970
.315
.625
.100
.248
.315
.320
.156
.020 PIN
.230
.300
PIN 4 — V
PIN 8 — D SEG.
PIN 9 — C SEG.
PIN 10 — A & B
PIN 2, 3, 5, 6, 7, 11, 12, 13, 14 — N.C.

PY134


.030
.020
KEY
.468
.315
.100
.100
.100
.063
.084
.156
.185
.053
.306
.312
.141
.200
PIN IDENTIFICATION
PIN 1 F Segment
PIN 2 V_L
PIN 3 D Segment
PIN 4 E Segment
PIN 5 C Segment
PIN 6 G Segment
PIN 7 A Segment
PIN 8 B Segment

PY135

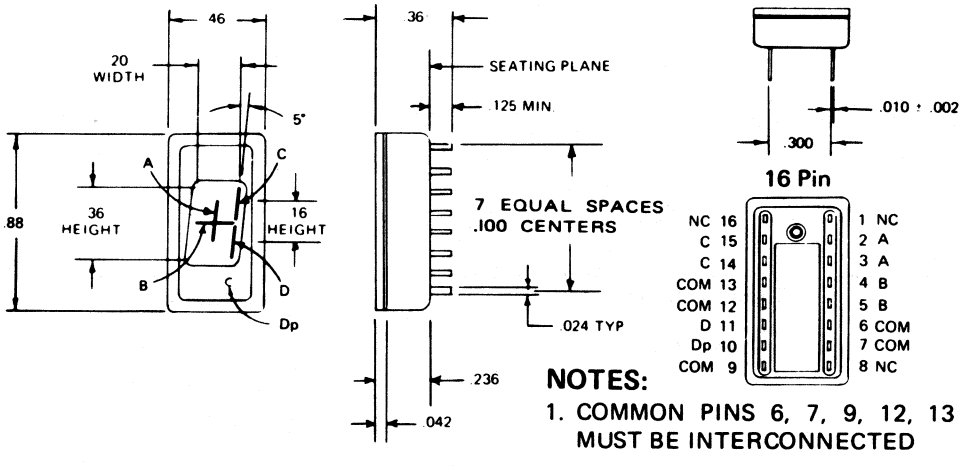


PY135a — HAS NO METAL MASK OR DECIMAL.

NOTES:

1. COMMON PINS 2, 5, 10, 12, 13 MUST BE INTERCONNECTED.
2. MOUNTS IN 16 PIN DIP SOCKET OR SOLDER TO PRINTED CIRCUIT BOARD

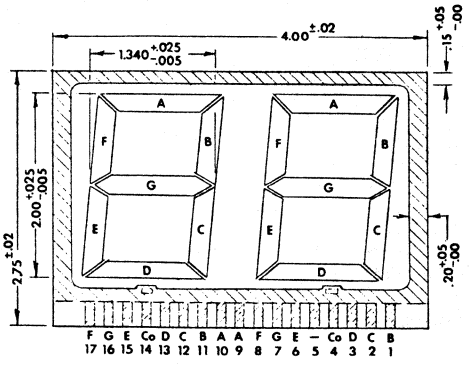
PY136



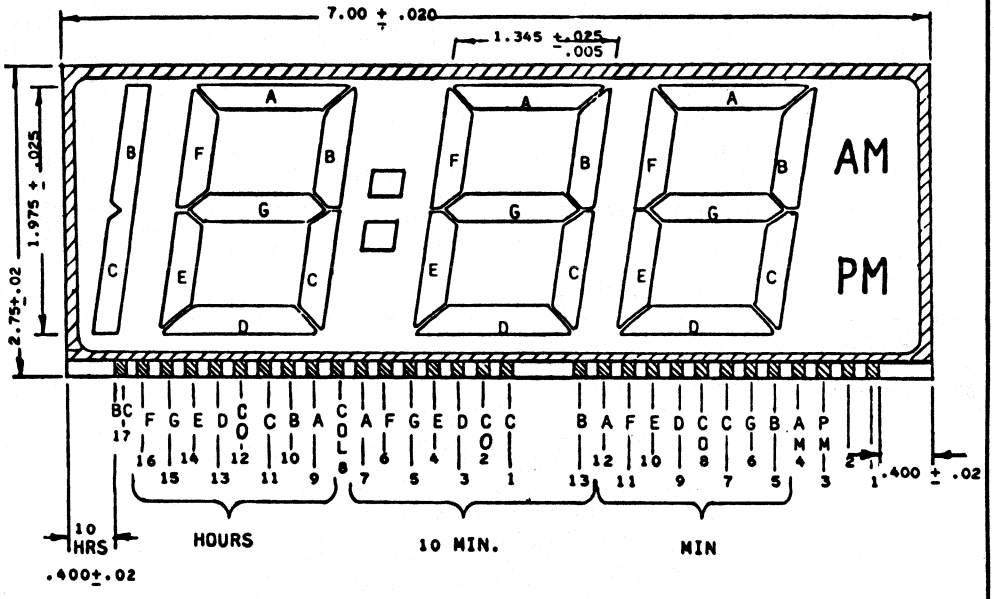
NOTES:

1. COMMON PINS 6, 7, 9, 12, 13 MUST BE INTERCONNECTED

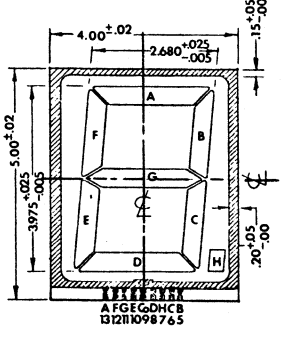
PY147



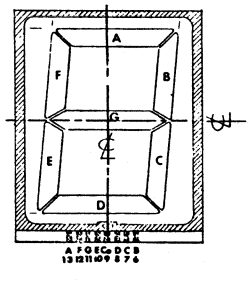
PY148

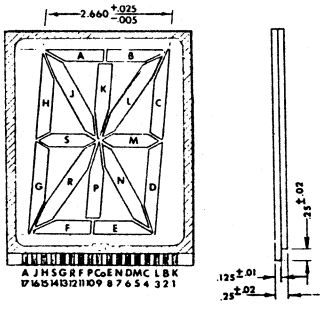


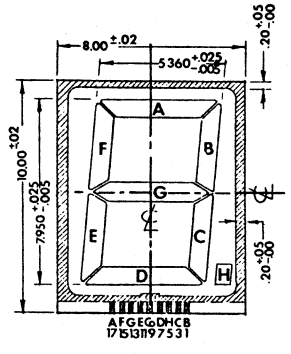
PY149



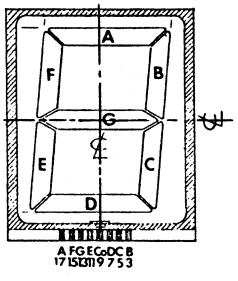
PY149

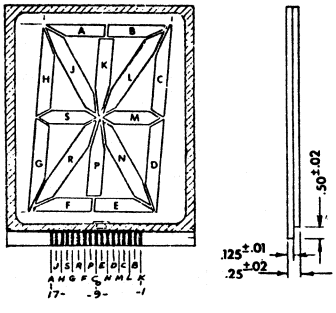






PY149a

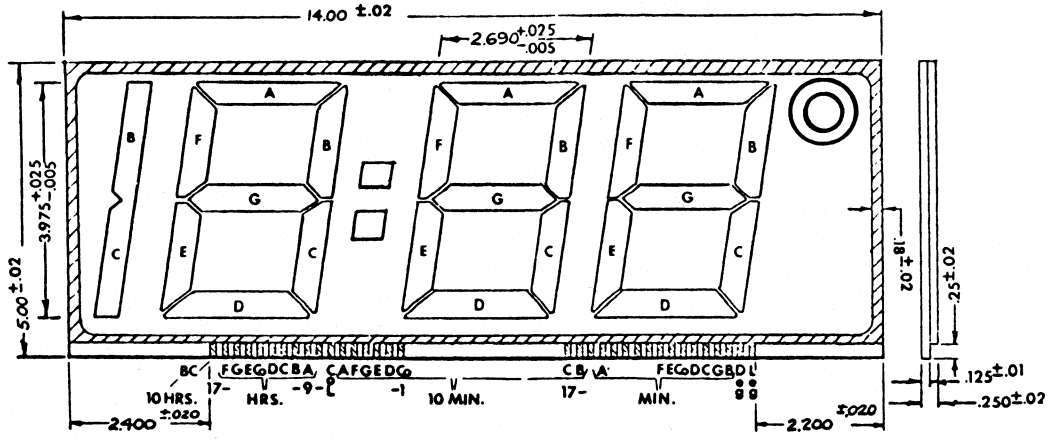




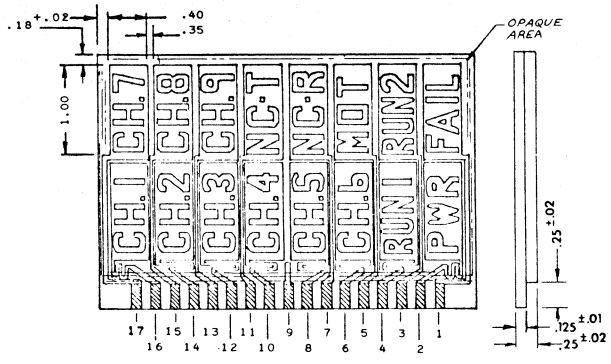
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

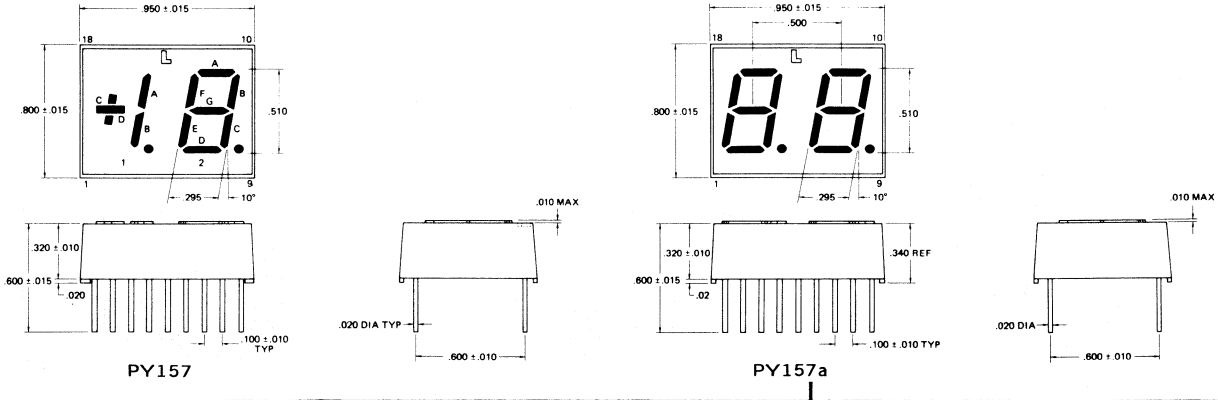
PY150



PY151



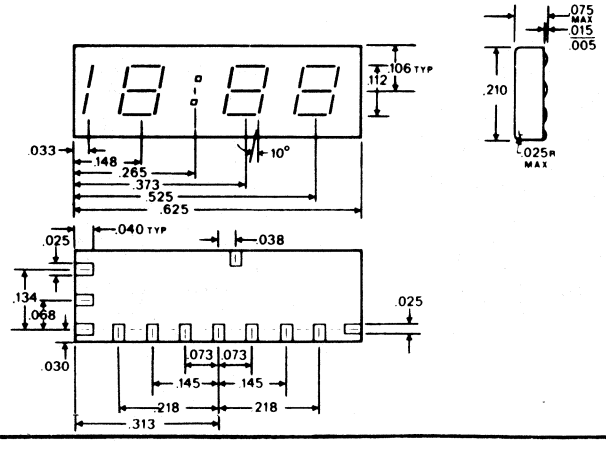
PY157



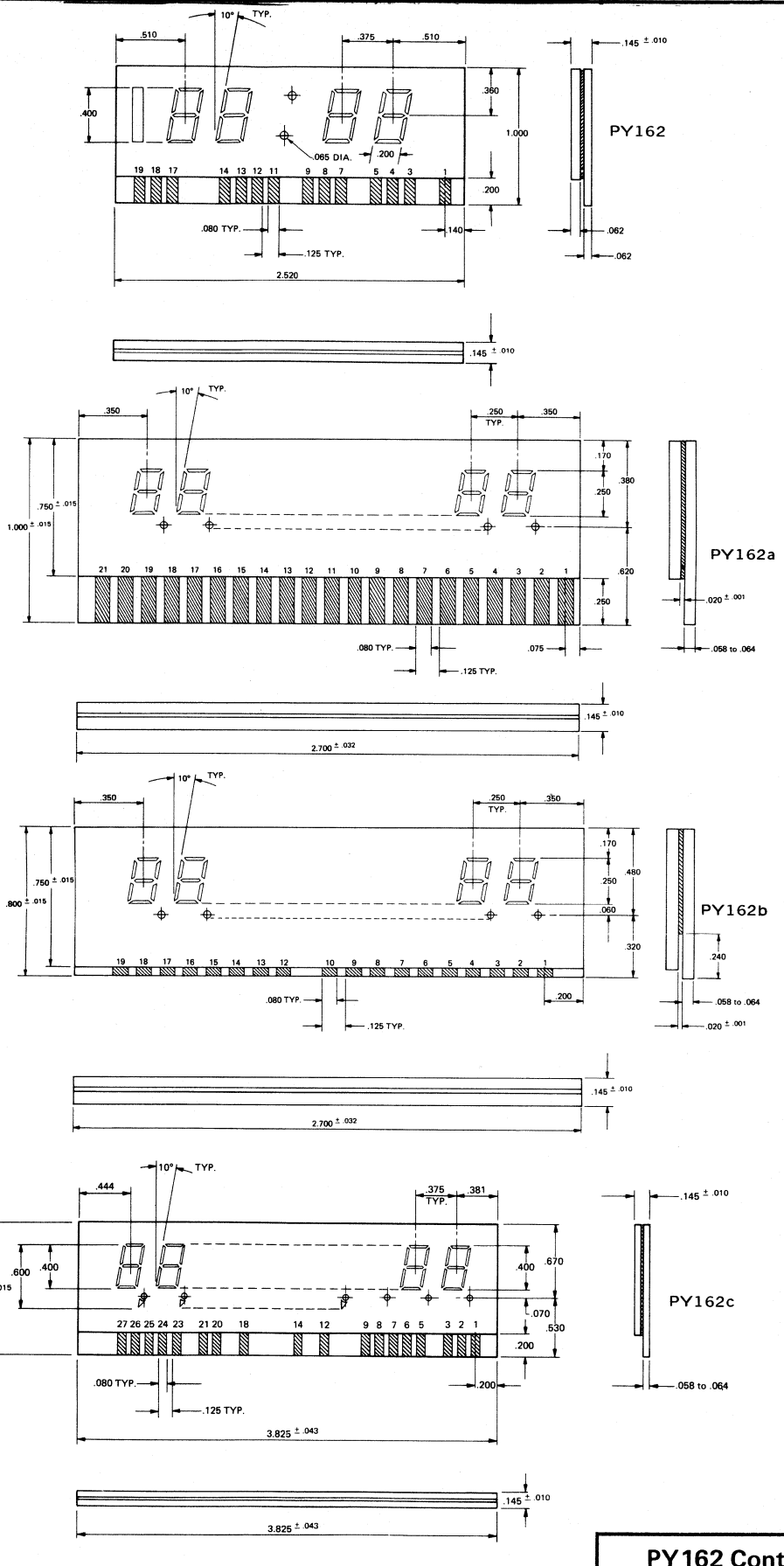
PY157

PY157a

PY160

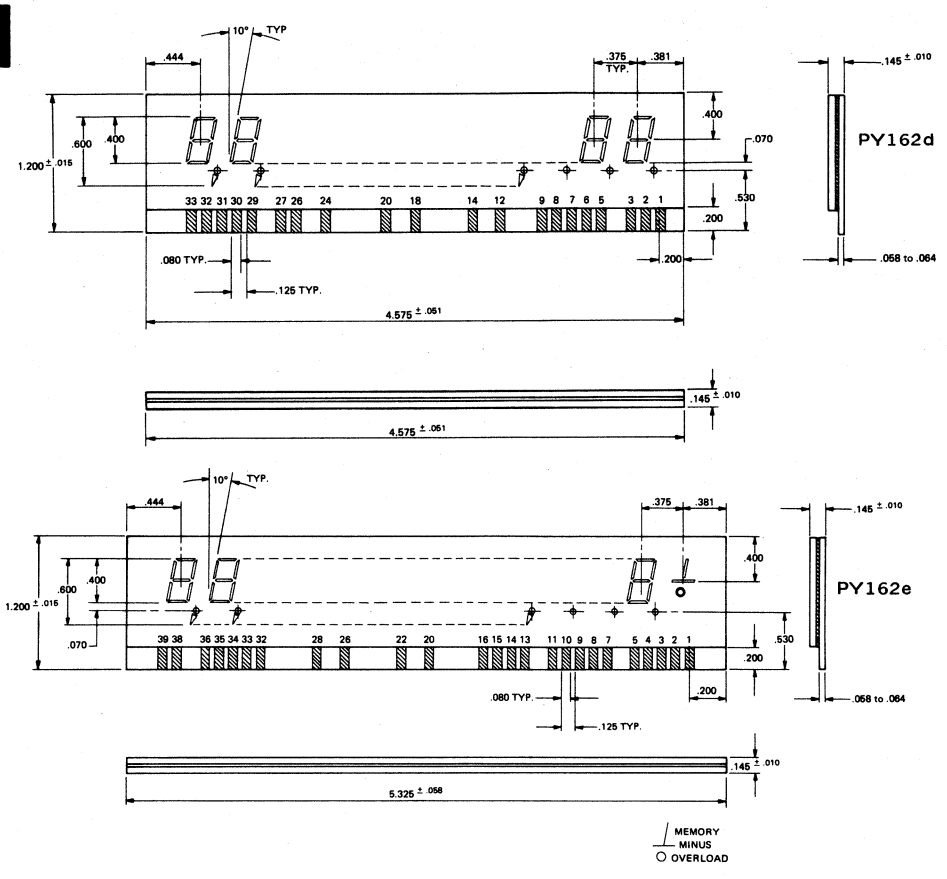


PY162

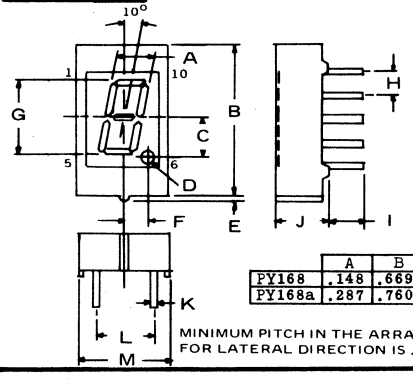


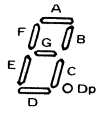
PY162 Cont'd on next page

PY162 Cont'd



PY168

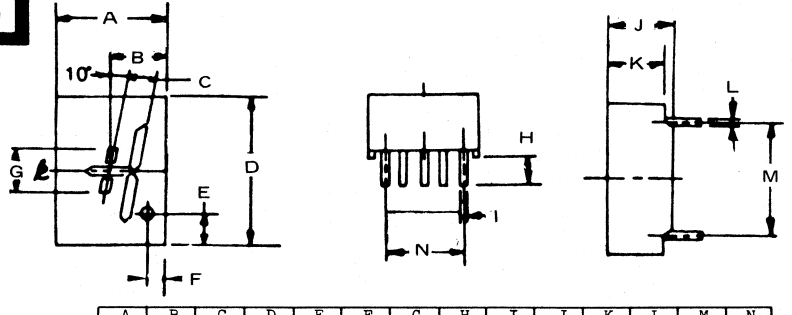




	A	B	C	D	E	F	G	H	I	J	K	L	M
PY168	.148	.669	.167	0.59Ø	.019	.100	.326	.100	.086	.216	.017Ø	.224	.354
PY168a	.287	.760	.167	0.59Ø		.100	.496	.100	.125	.320	.019Ø	.100	

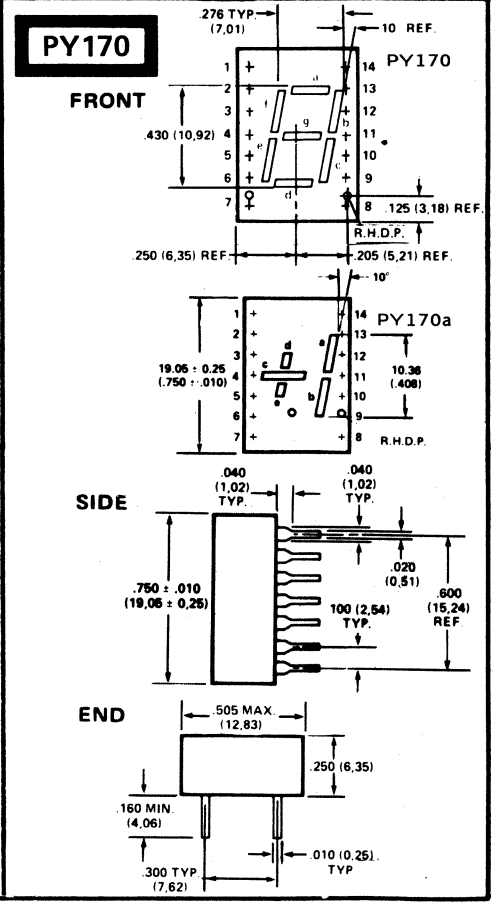
MINIMUM PITCH IN THE ARRAY FOR LATERAL DIRECTION IS .433.

PY169



	A	B	C	D	E	F	G	H	I	J	K	L	M	N
PY169	.354			.669	.167			.086		.216		.017	.224	.224
PY169a	.560	.294	.144	.760	.167	.095	.228	.125	.020	.320	.285	.008	.599	.100

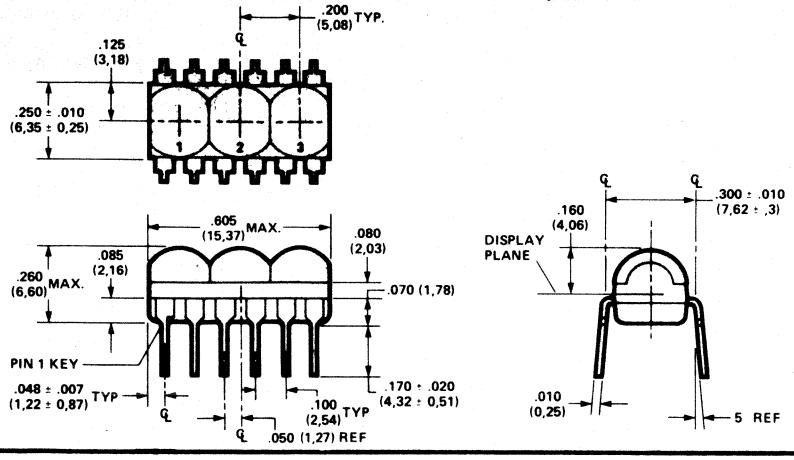
PY170



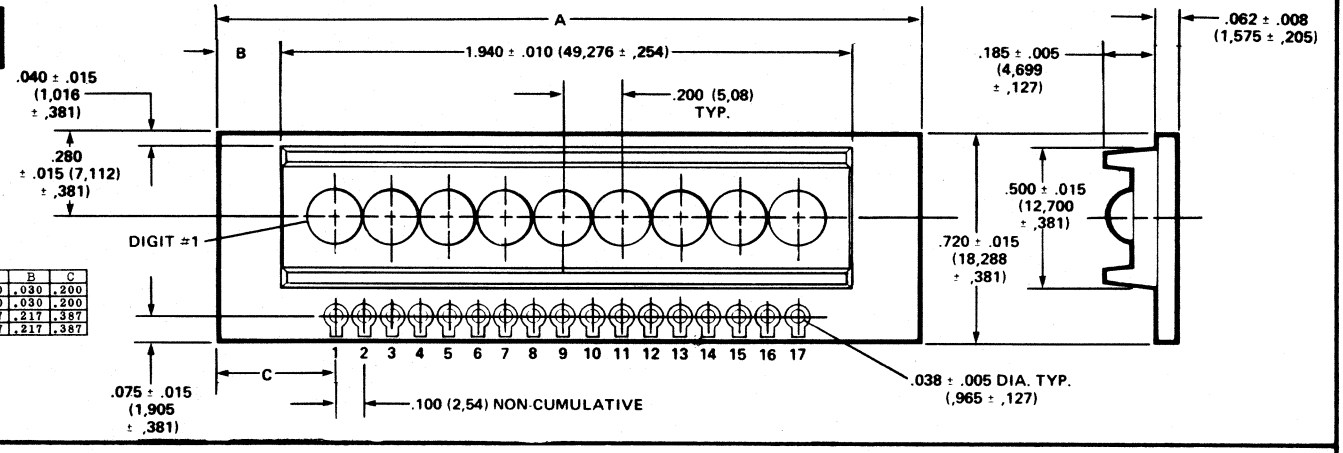
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY171

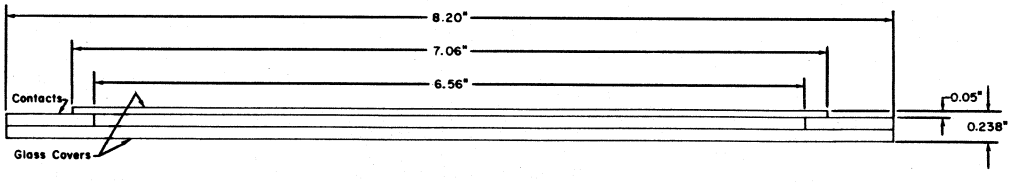


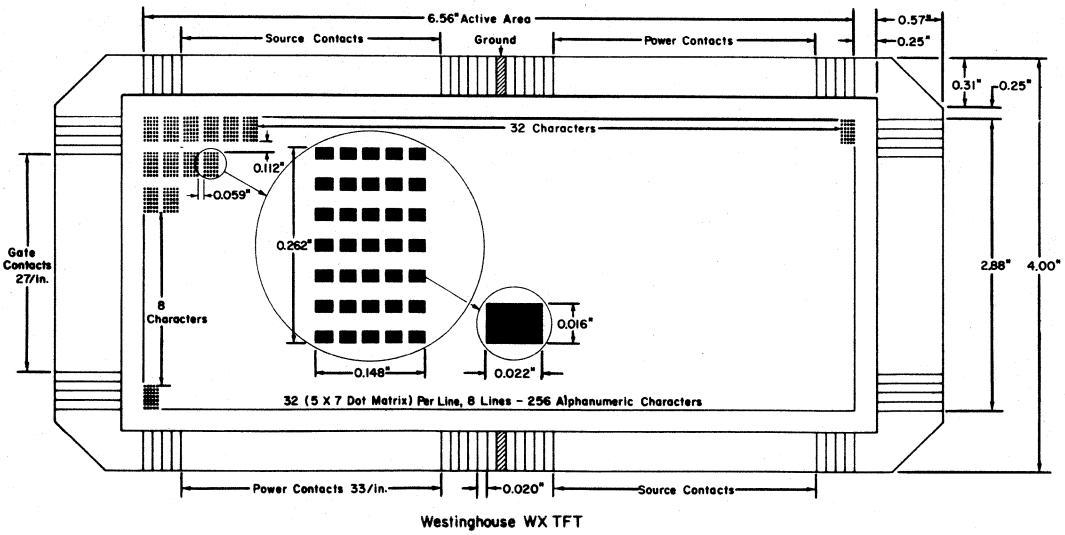
PY172



	A	B	C
PY172	2.00	.030	.200
PY172a	2.00	.030	.200
PY172b	2.37	.217	.387
PY172c	2.37	.217	.387

PY175



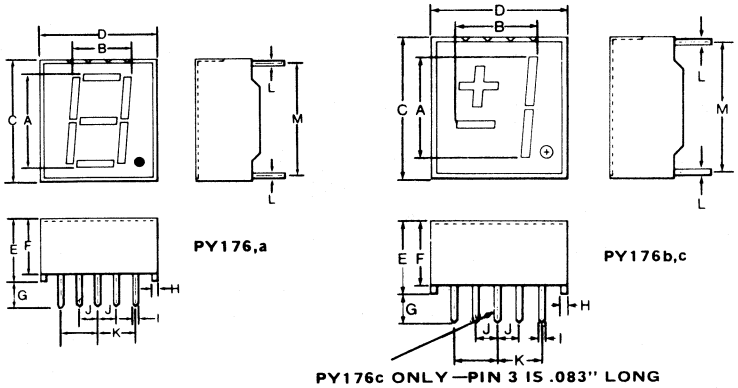


Westinghouse WX TFT

49. OUTLINE DRAWINGS

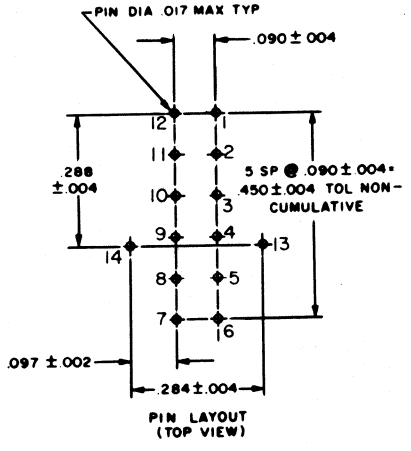
IN DRAWING NUMBER SEQUENCE

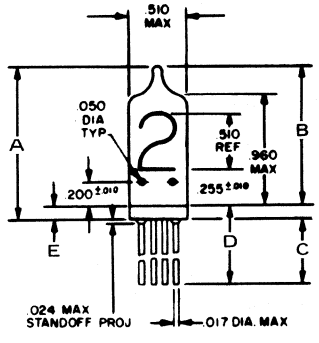
PY176

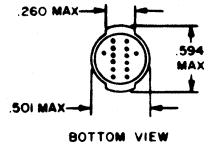


	A	B	C	D	E	F	G	H	I	J	K	L	M
PY176	.500	.299	.653	.599	.338	.315	.122	.019	.019	.100	.200	.009	.600
PY176a	.500	.300	.645 .655	.590 .600	.330 .340	.295 .305	.170	.020	.016 .019	.090 .110	.190 .210	.010	.600
PY176b c	.500	.370	.645 .655	.590 .600	.330 .340	.295 .305	.170	.020	.016 .019	.090 .110	.190 .210	.010	.600

PY186

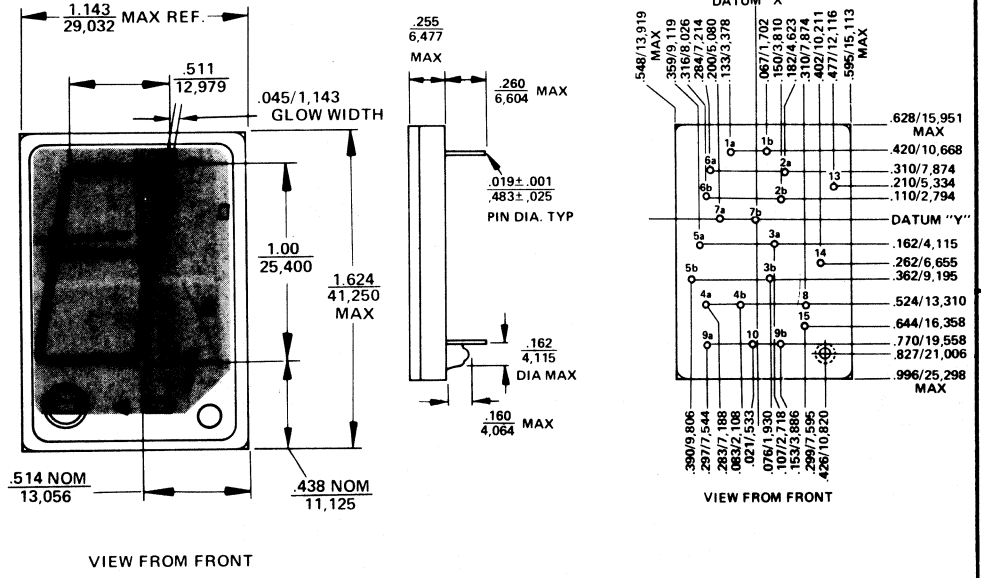




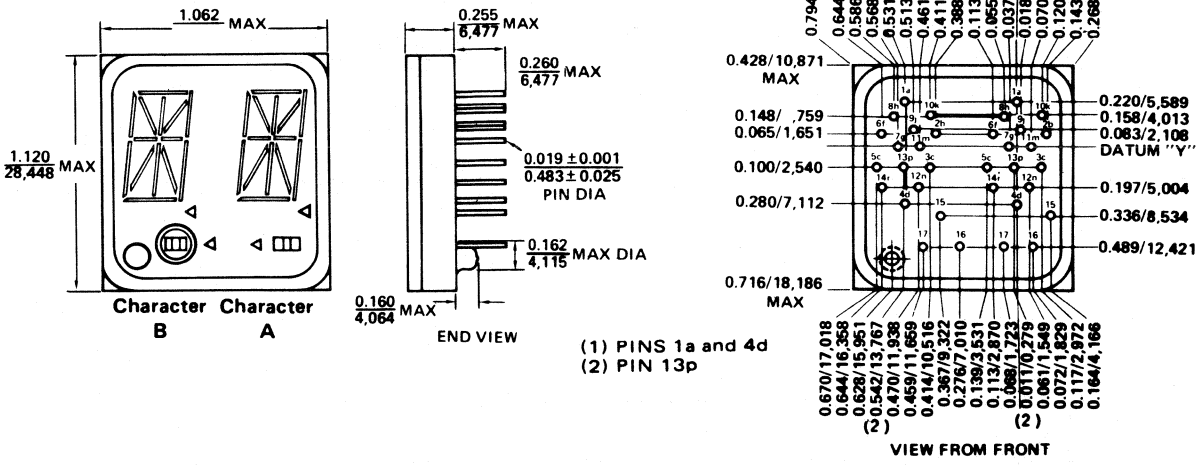


	A	B	C	D	E
PY186		1.200 MAX		2.00 MIN	
PY186a	1.329 MAX		.190 MAX		.129 MAX
PY186b	1.424 MAX		.190 MAX		.224 MAX

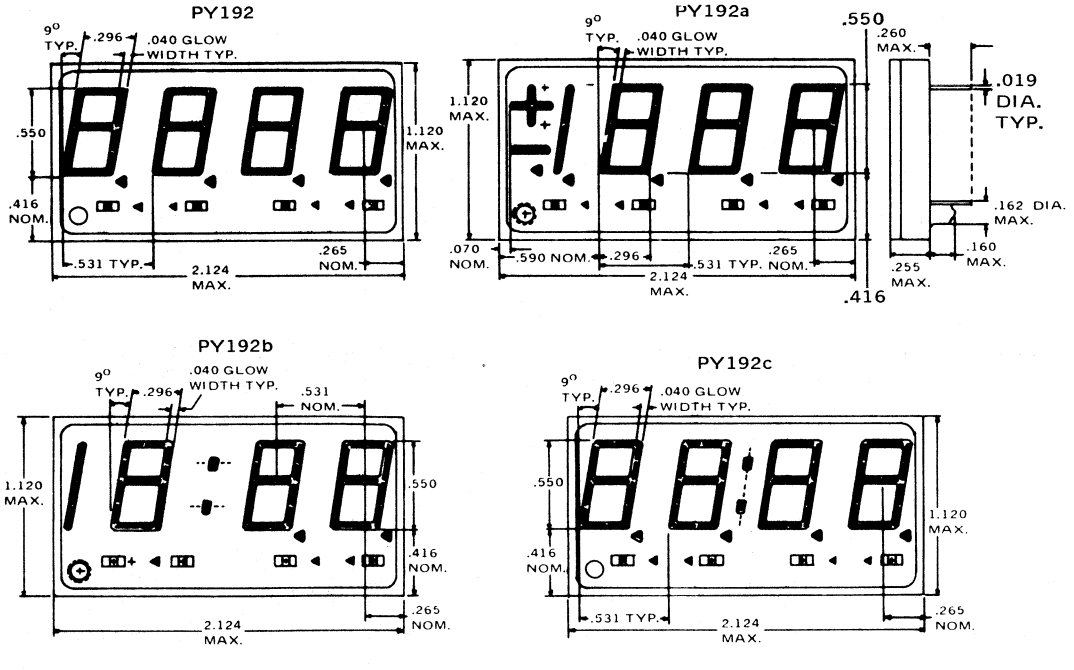
PY190



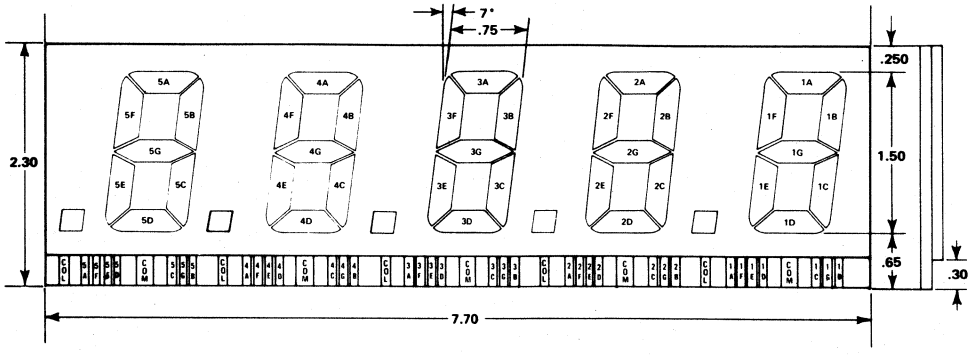
PY191


1.062 MAX
1.120 / 28,448 MAX
Character B
Character A
0.255 / 6,477 MAX
0.260 / 6,477 MAX
0.019 ±0.001 / 0.483 ± 0.025 PIN DIA
0.162 / 4,115 MAX DIA
0.160 / 4,064 MAX
END VIEW
(1) PINS 1a and 4d
(2) PIN 13p
PIN DESIGNATION AND LOCATION
(1) DATUM "X"
0.794/20,168 MAX
0.644/16,358
0.586/14,884
0.568/14,427
0.531/13,487
0.513/13,030
0.461/11,709
0.411/10,439
0.388/9,855
0.113/2,870
0.055/1,397
0.037/0,940
0.018/0,457
0.070/1,778
0.120/3,048
0.143/3,632
0.268/6,807
0.428/10,871 MAX
0.148/ ,759
0.065/1,651
0.100/2,540
0.280/7,112
0.716/18,186 MAX
0.220/5,589
0.158/4,013
0.083/2,108
DATUM "Y"
0.197/5,004
0.336/8,534
0.489/12,421
0.670/17,018
0.644/16,358
0.628/15,951
0.542/13,767
0.470/11,938
0.459/11,659
0.414/10,516
0.367/9,322
0.276/7,010
0.139/3,531
0.113/2,870
0.068/1,723
0.011/0,279
0.061/1,549
0.072/1,829
0.117/2,972
0.164/4,166
(2)
(2)
VIEW FROM FRONT

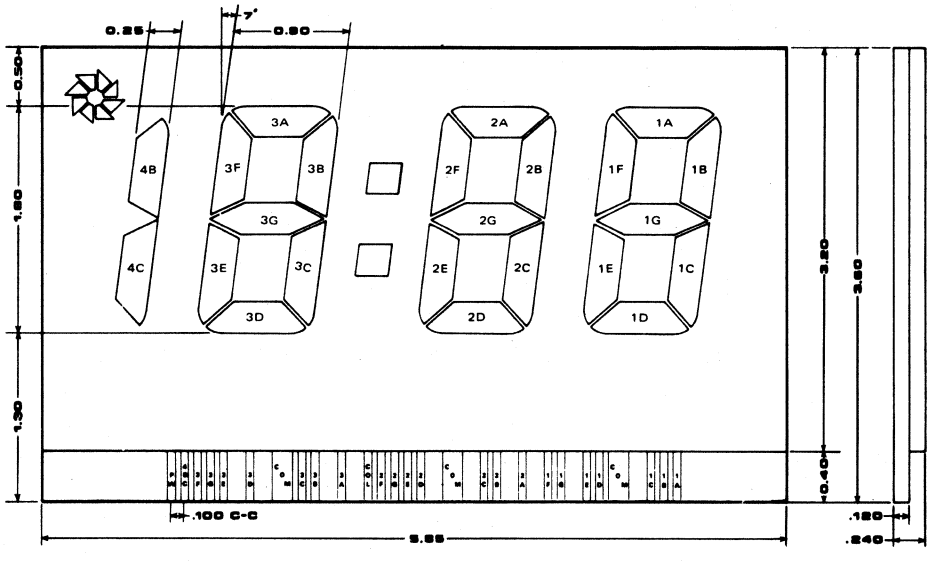
PY192


PY192
9° TYP.
.296
.040 GLOW WIDTH TYP.
.550
.416 NOM.
1.120 MAX.
.531 TYP.
2.124 MAX.
.265 NOM.
PY192a
.550
.260 MAX.
.019 DIA. TYP.
.162 DIA. MAX.
.160 MAX.
.255 MAX.
.070 NOM.
.590 NOM.
.531 TYP. NOM.
.416
PY192b
.531 NOM.
PY192c

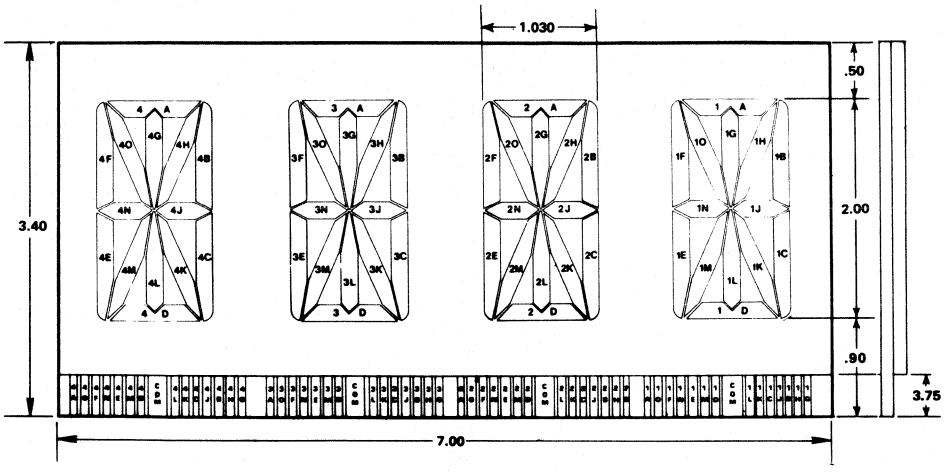
PY196


7°
.75
.250
1.50
.65
.30
2.30
7.70
5A
5F
5B
5G
5E
5C
5D
4A
4F
4B
4G
4E
4C
4D
3A
3F
3B
3G
3E
3C
3D
2A
2F
2B
2G
2E
2C
2D
1A
1F
1B
1G
1E
1C
1D

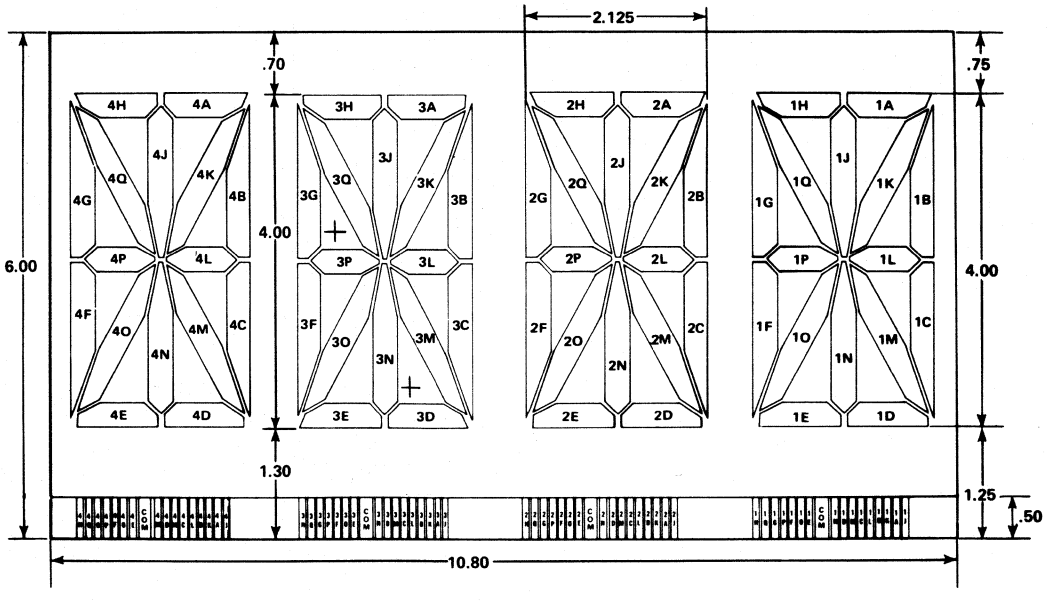
PY197


0.25
7°
0.80
0.50
1.80
1.30
3.20
3.60
0.40
.100 C-C
9.85
.120
.240
4B
4C
3A
3F
3B
3G
3E
3C
3D
2A
2F
2B
2G
2E
2C
2D
1A
1F
1B
1G
1E
1C
1D

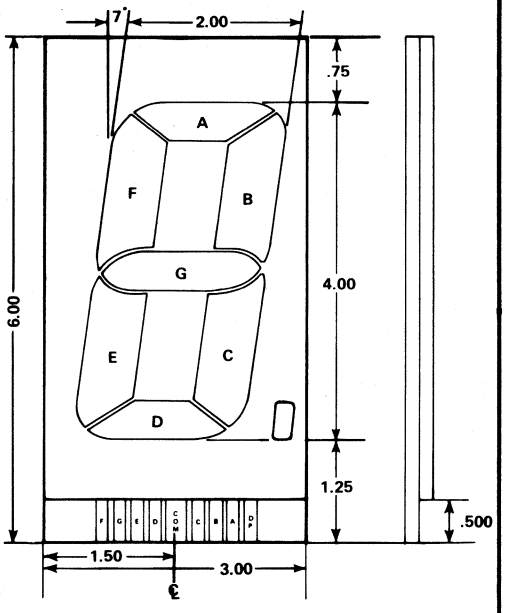
PY198



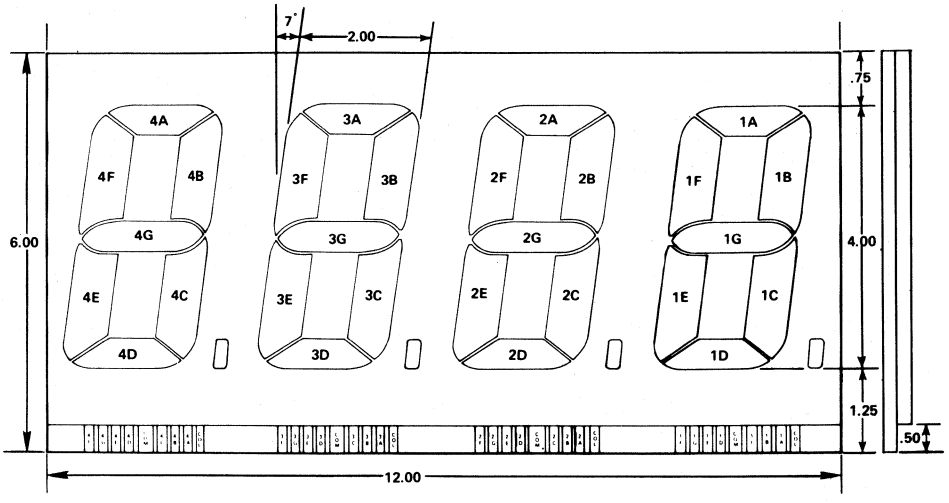
PY199



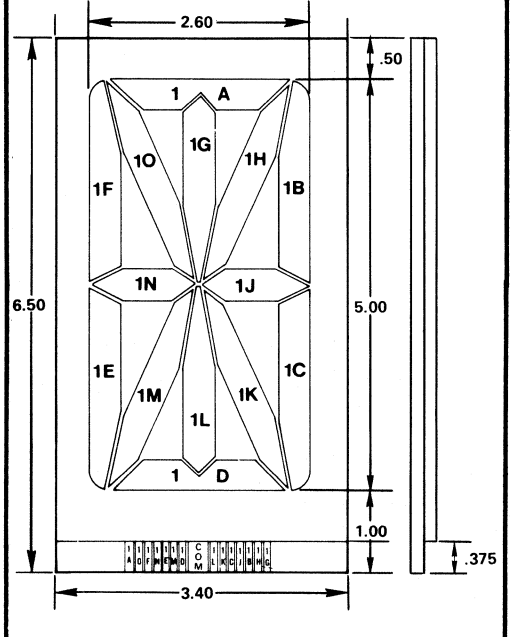
PY200



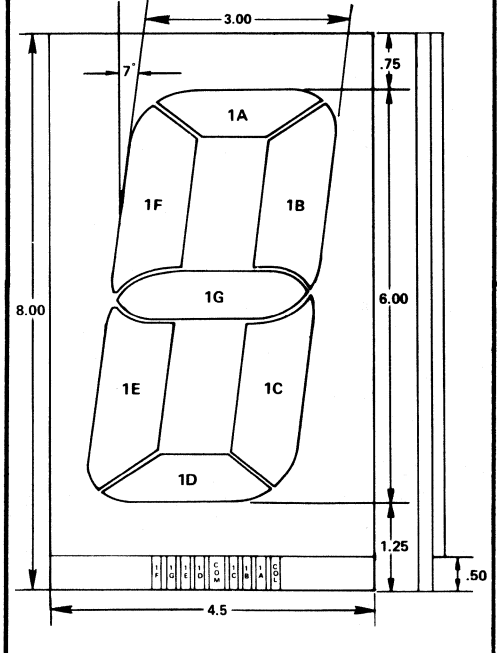
PY201



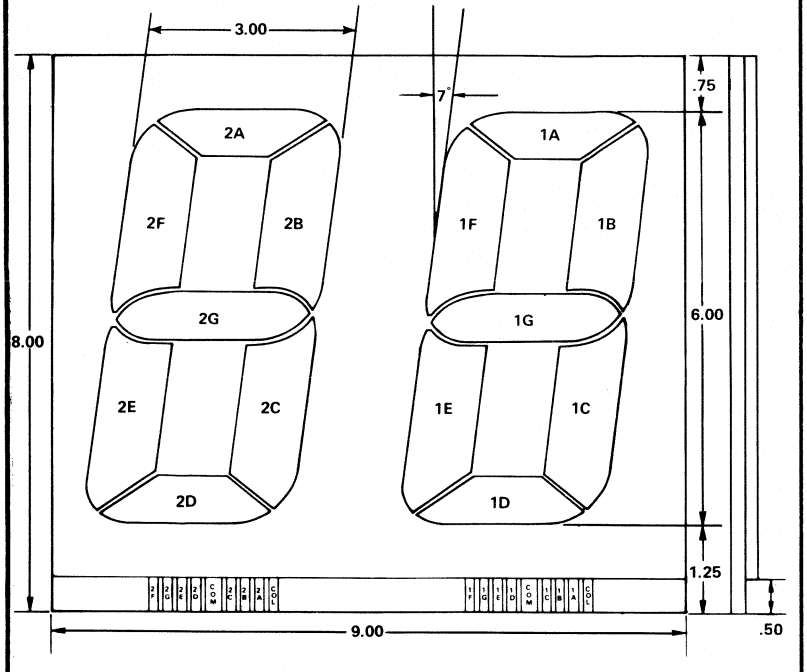
PY202



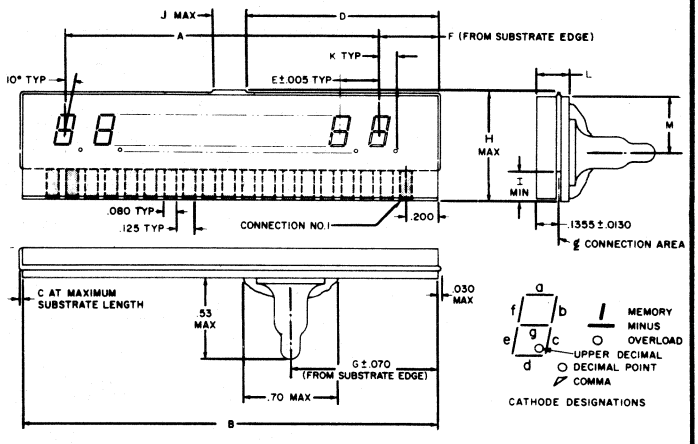
PY203



PY204



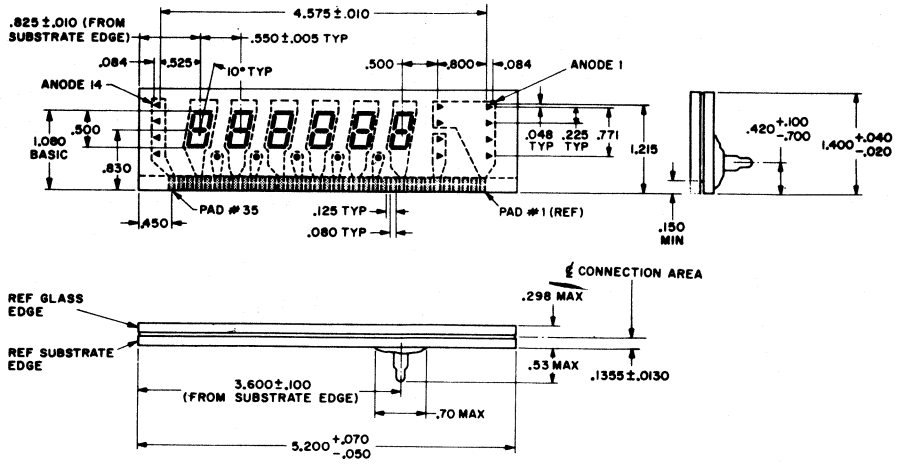
PY205



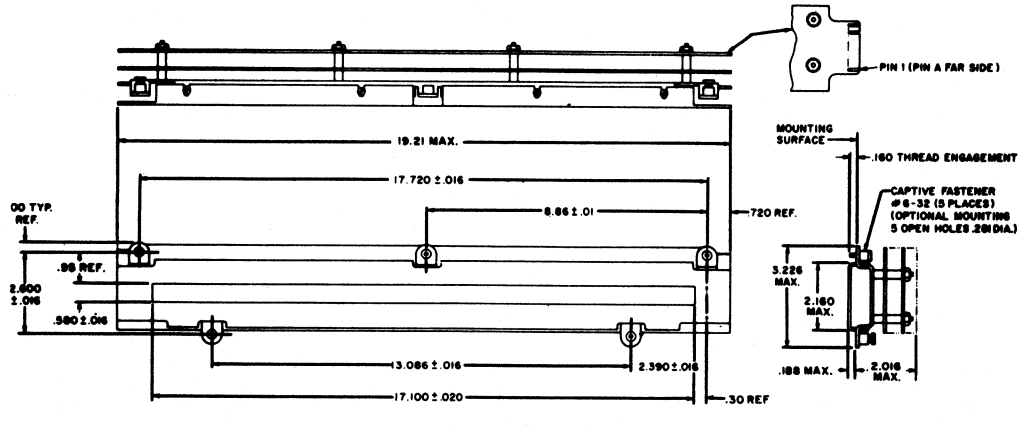
DIMENSIONS

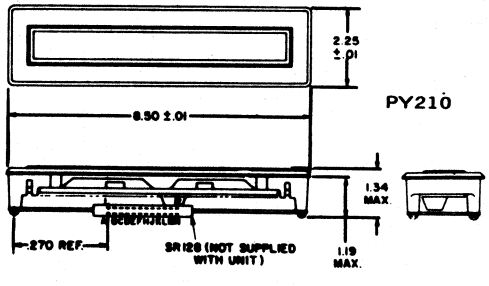
	A	B	C	D	E	F	G	H	I	J	K	L	M
PY205	2.000 ±.005	2.650 ±.032	.030 max	1.210 ±.200	.250	.355 ±.006	.728 ±.070	.780 max	.142	.200 max	.114 typ	.197 ±.019	.260 ±.040
PY205a	2.250 ±.005	2.900 ±.034	.030 max	1.330 ±.200	.250	.355 ±.006	.728 ±.070	.780 max	.142	.200 max	.114 typ	.197 ±.019	.260 ±.040
PY205b	2.000 ±.005	2.650 ±.032	.030 max	1.295 ±.020	.250	.325 ±.005	.885 ±.070	.950 max	.150	.600 max	.145 typ	.197 ±.019	.525 +.030 −.070
PY205c	2.750 ±.005	3.400 ±.039	.030 max	1.670 ±.020	.250	.325 ±.005	1.385 ±.070	.950 max	.150	.600 max	.145 typ	.197 ±.019	.525 +.030 −.070
PY205d	2.600 ±.005	3.400 ±.039	.030 max	1.400 Ref.	.325	.400 ±.005	1.385 ±.070	.950 max	.150	.600 max	.153 typ	.197 ±.019	.525 +.030 −.070
PY205e	2.660 ±.005	3.400 ±.039	.030 max	1.400 Ref.	.266	.350 ±.005	1.385 ±.070	.950 max	.150	.600 max	.118 typ	.197 ±.019	.525 +.030 −.070
PY205f	2.750 ±.005	3.650 ±.042	.030 max	1.740 ±.200	.250	.575 ±.010	1.385 ±.070	.950 max	.150	.200 max		.197 ±.019	.525 +.030 −.070
PY205g	3.750 ±.005	4.400 ±.049	.030 max	2.120 ±.200	.250	.325 ±.005	1.635 ±.070	.950 max	.150	.200 max	.105 typ	.197 ±.019	.525 +.030 −.070
PY205h	3.724 ±.005	4.400 ±.049	.030 max	2.120 ±.200	.266	.325 ±.005	1.635 ±.070	.950 max	.150	.200 max		.197 ±.019	.525 +.030 −.070
PY205j	3.000 ±.005	3.825 ±.043	.030 max	1.760 ±.200	.375	.400 ±.010	1.550 ±.070	1.250 max	.150	.250 max	.170 typ	.247 ±.022	.700 ±.070
PY205k	2.625 ±.005	3.825 ±.043	.030 max	1.760 ±.200	.375	.775 ±.010	1.550 ±.070	1.250 max	.150	.250 max	.170 typ	.247 ±.022	.700 ±.070
PY205m	3.750 ±.005	4.575 ±.051	.022 max	2.130 ±.200	.375	.400 ±.010	1.550 ±.070	1.250 max	.150	.250 max	.170 typ	.247 ±.022	.700 ±.070
PY205n	4.125 ±.005	5.325 ±.058	.015 max	2.510 ±.200	.375	.775 ±.010	1.550 ±.070	1.250 max	.150	.250 max		.247 ±.022	.700 ±.070
PY205p	5.625 ±.005	6.450 ±.070	.005 max	3.070 ±.200	.375	.400 ±.010	1.550 ±.070	1.250 max	.150	.250 max	.170 typ	.247 ±.022	.700 ±.070

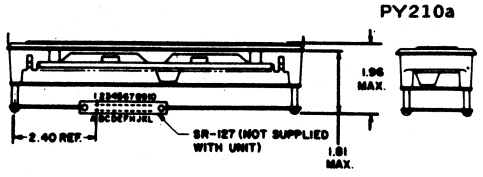
PY206

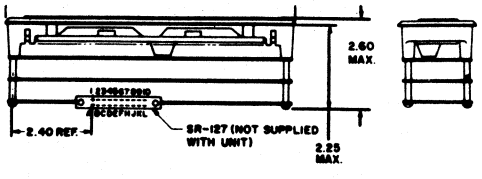

4.575 ±.010
.825 ±.010 (FROM SUBSTRATE EDGE)
.550 ±.005 TYP
.084
.525
10° TYP
.500
.800
.084
ANODE 14
ANODE 1
1.080 BASIC
.500
.830
.048 TYP
.225 TYP
.771
1.215
.420 +.100 -.700
1.400 +.040 -.020
.450
PAD #35
.125 TYP
.080 TYP
PAD #1 (REF)
.150 MIN
℄ CONNECTION AREA
.298 MAX
REF GLASS EDGE
REF SUBSTRATE EDGE
.53 MAX
.1355 ±.0130
3.600 ±.100 (FROM SUBSTRATE EDGE)
.70 MAX
5.200 +.070 -.050

PY210


PIN 1 (PIN A FAR SIDE)
19.21 MAX.
17.720 ±.016
8.86 ±.01
720 REF.
.00 TYP. REF.
.98 REF.
2.600 ±.016
.580 ±.016
13.086 ±.016
2.390 ±.016
17.100 ±.020
.30 REF
MOUNTING SURFACE
.160 THREAD ENGAGEMENT
CAPTIVE FASTENER #6-32 (5 PLACES) (OPTIONAL MOUNTING 5 OPEN HOLES .201 DIA.)
3.226 MAX.
2.160 MAX.
.188 MAX.
2.016 MAX.


2.25 ±.01
8.50 ±.01
PY210
1.34 MAX.
.270 REF.
SR128 (NOT SUPPLIED WITH UNIT)
1.19 MAX.

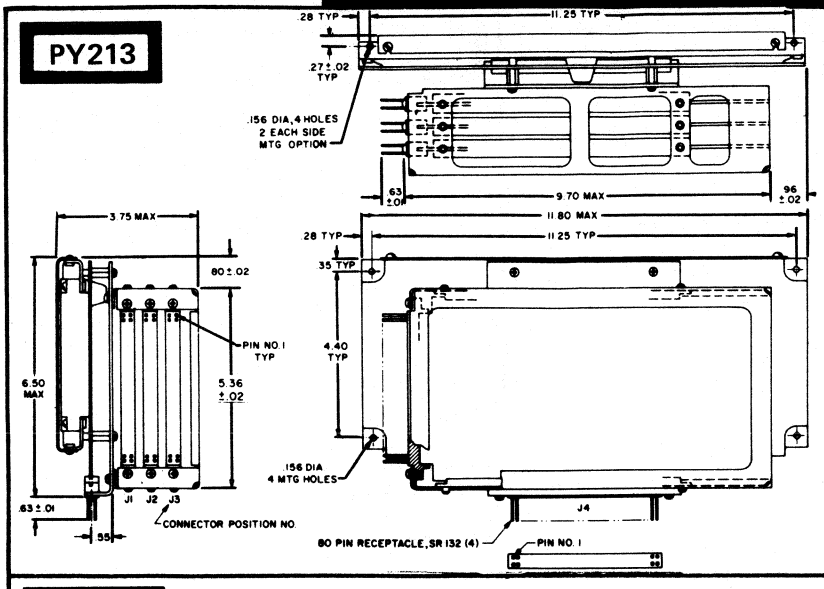

PY210a
1.96 MAX.
2.40 REF.
SR-127 (NOT SUPPLIED WITH UNIT)
1.81 MAX.


PY210b
2.60 MAX.
2.40 REF.
SR-127 (NOT SUPPLIED WITH UNIT)
2.25 MAX.

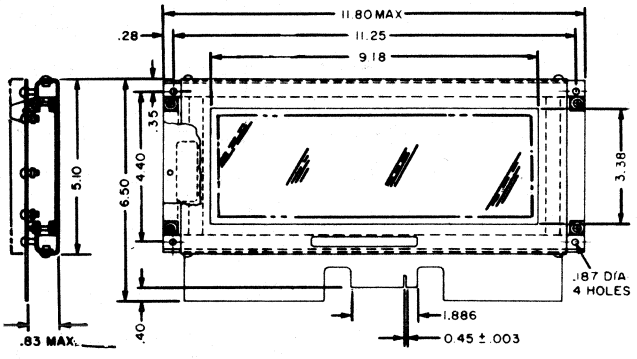
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

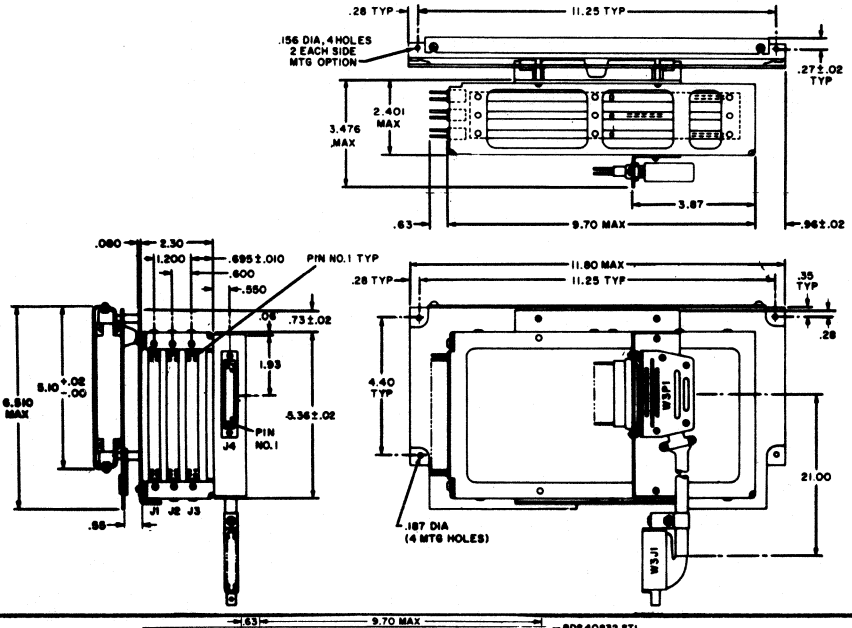
PY213



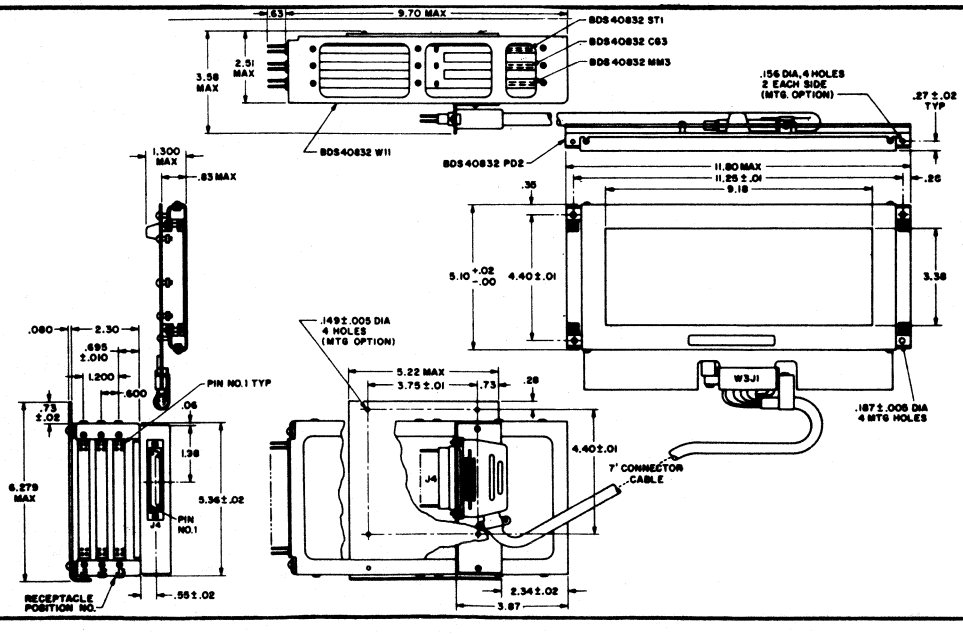
PY214



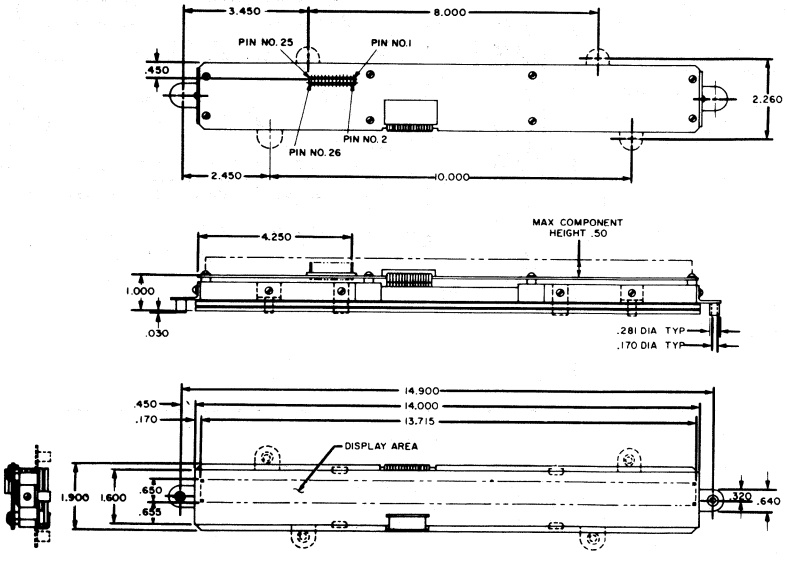
PY215



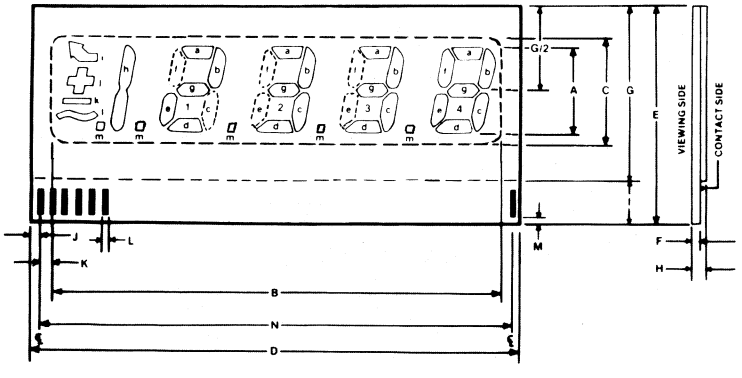
PY216



PY217



PY224



*Vertical Height: Characters on 10° Slant
**Within I dimension ±.010
***Last pad position available, not necessarily last pad used

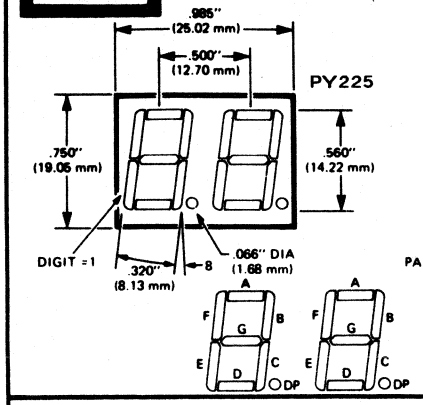
INCH
MM

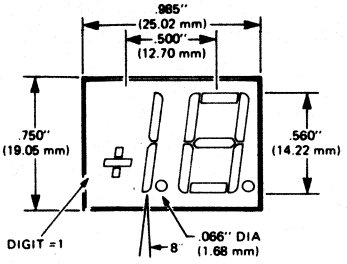
DIMENSION	PY224	PY224a	PY224b	PY224c	PY224d	PY224e
A	.40	.50	.60	.40	.50	.60
	10,1	12,7	15,2	10,1	12,7	15,2
B	1.75	2.20	2.75	2.20	2.75	3.00
	44,45	55,88	69,85	55,88	69,85	76,20
C	.60	.70	.80	.60	.70	.80
	15,24	17,78	20,32	15,24	17,78	20,32
D	2.00	2.50	3.00	2.50	3.00	3.25
	50,80	63,00	76,20	63,50	76,20	82,55
E	1.10	1.25	1.35	1.10	1.25	1.35
	27,94	31,75	34,29	27,94	31,75	34,29
F	.048	.048	.048	.048	.048	.048
	1,219	1,219	1,219	1,219	1,219	1,219
D	2.00	2.50	3.00	2.50	3.00	3.25
	50,800	63,00	76,20	63,50	76,20	82,55
G	.85	1.00	1.10	.85	1.00	1.10
	21,59	25,40	27,94	21,59	25,40	27,94
H	.130	.130	.130	.130	.130	.130
	3,302	3,302	3,302	3,302	3,302	3,302
I	.250	.250	.250	.250	.250	.250
	6,350	6,350	6,350	6,350	6,350	6,350
J	.025	.025	.025	.025	.025	.025
	0,635	0,635	0,635	0,635	0,635	0,635
K	.050	.050	.050	.050	.050	.050
	1,270	1,270	1,270	1,270	1,270	1,270
L	.030	.030	.030	.030	.030	.030
	0,762	0,762	0,762	0,762	0,762	0,762
M	.040	.040	.040	.040	.040	.040
	1,016	1,016	1,016	1,016	1,016	1,016
N	1.950	2.450	2.95	2.45	2.95	3.20
	49,530	62,230	74,930	62,230	74,930	81,280
TOTAL PAD POSITIONS	—	40	50	60	50	60	65

49. OUTLINE DRAWINGS

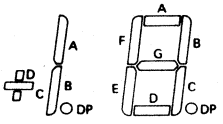
IN DRAWING NUMBER SEQUENCE

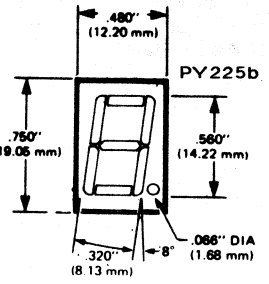
PY225

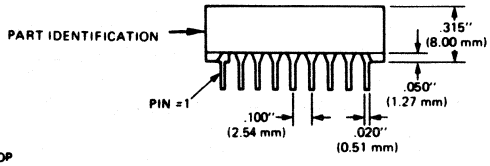


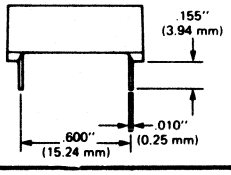


PY225a

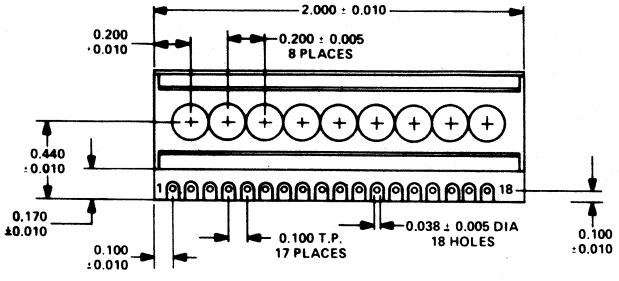


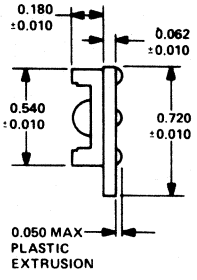




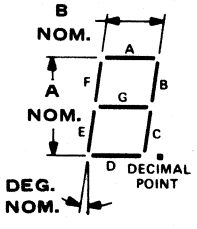


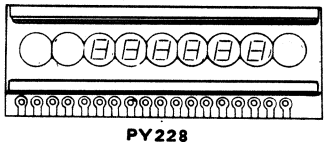
PY228



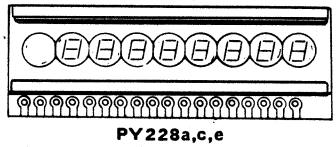


MAGNIFIED CHARACTER FONT



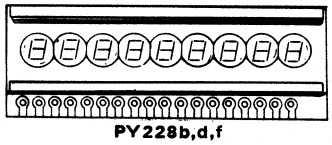


PY228

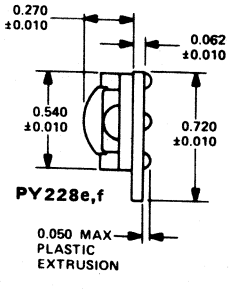


PY228a,c,e

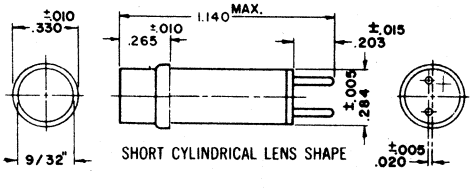
	A	B	DEG
PY228	.102	.082	7.5
PY228a	.102	.082	7.5
PY228b	.102	.082	7.5
PY228c	.110	.082	7.5
PY228d	.110	.082	7.5
PY228e	.105	.066	3.5
PY228f	.105	.066	3.5



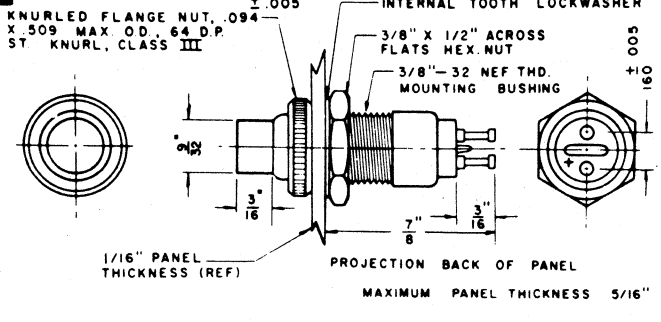
PY228b,d,f



PY233

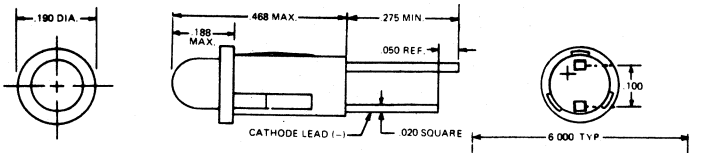


PY234



PY235

PY235 (WITH STRAIGHT TERMINALS OR WIRE LEADS)

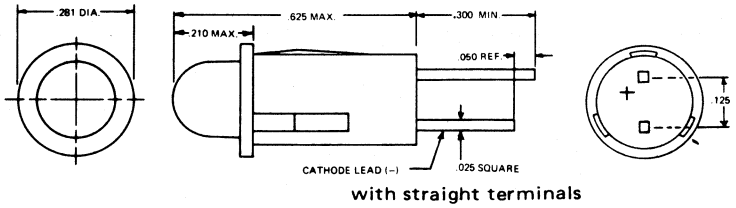


NOTE: wire lead colors
red & black (cathode)

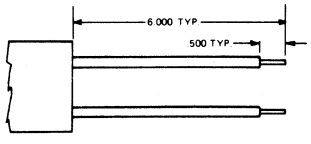
* Mounting Hole - .155" to .158" Diameter

with wire leads

PY235a (WITH STRAIGHT TERMINALS OR WIRE LEADS)



with straight terminals

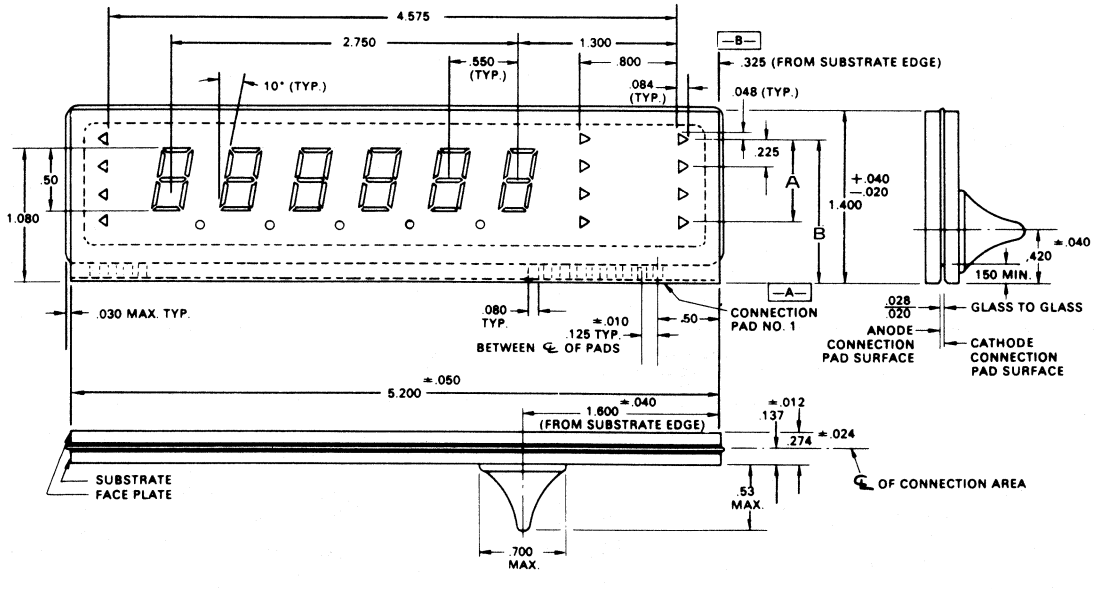


NOTE: wire lead colors
red & black (cathode)

with wire leads

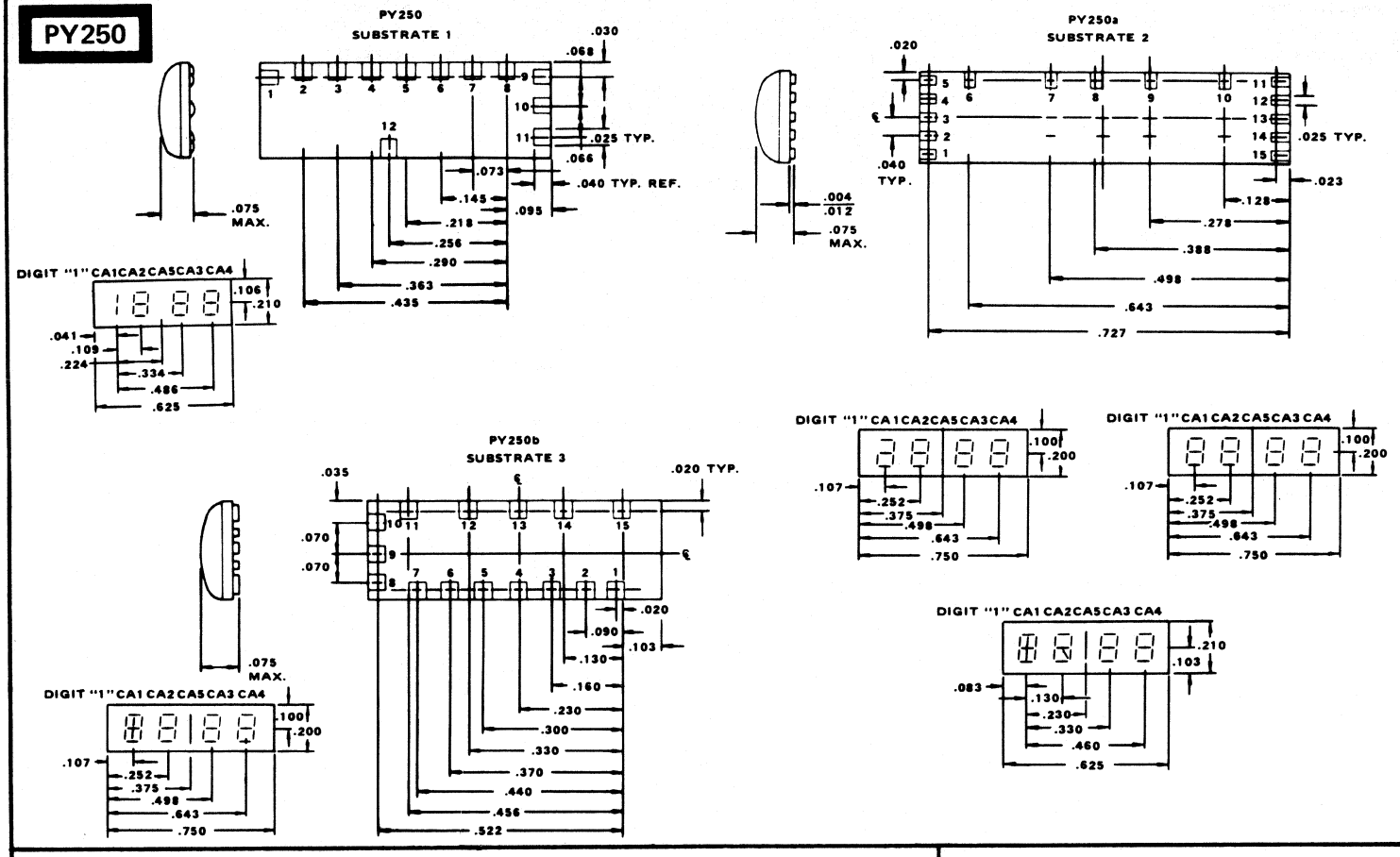
* Mounting Hole - .249" to .252" Diameter

PY243

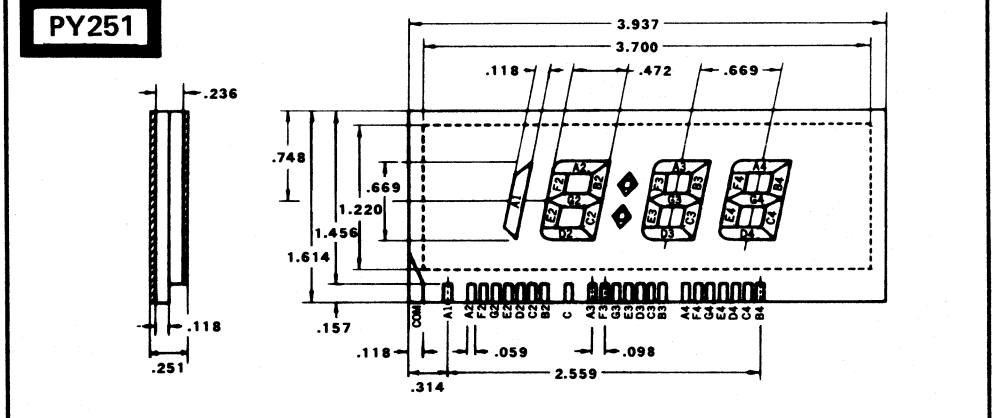


	A	B
PY243	.675	1.215
PY243a	.771	1.157
		1.177

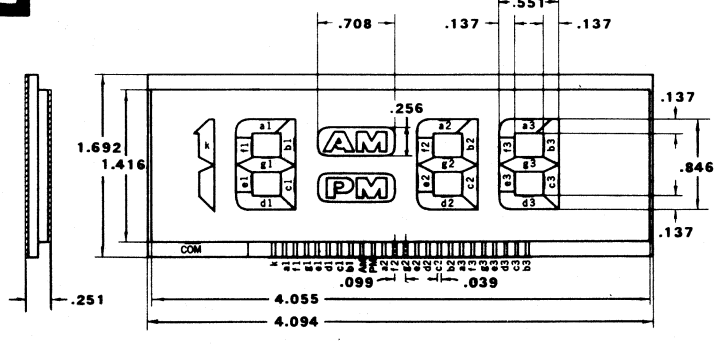
PY250



PY251



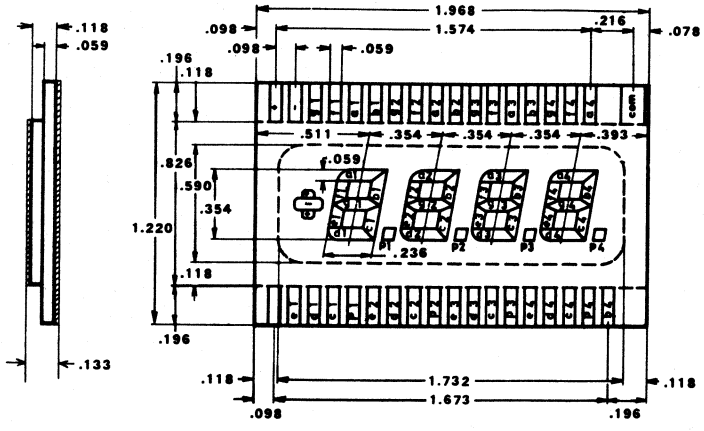
PY252



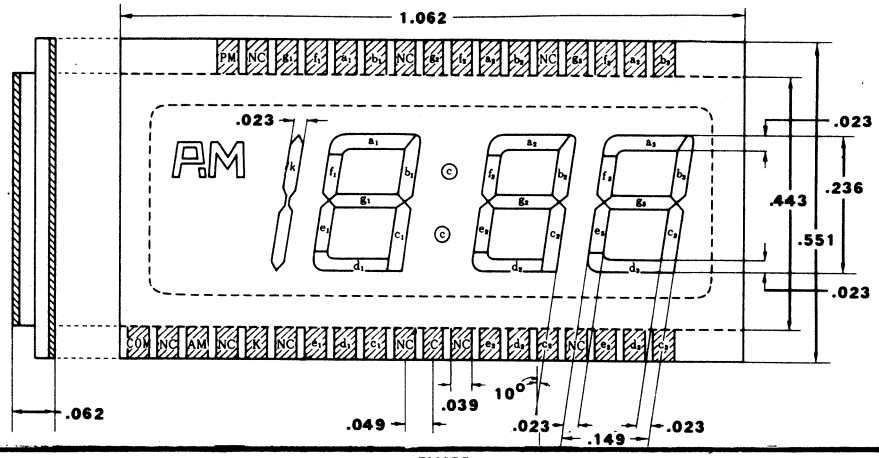
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

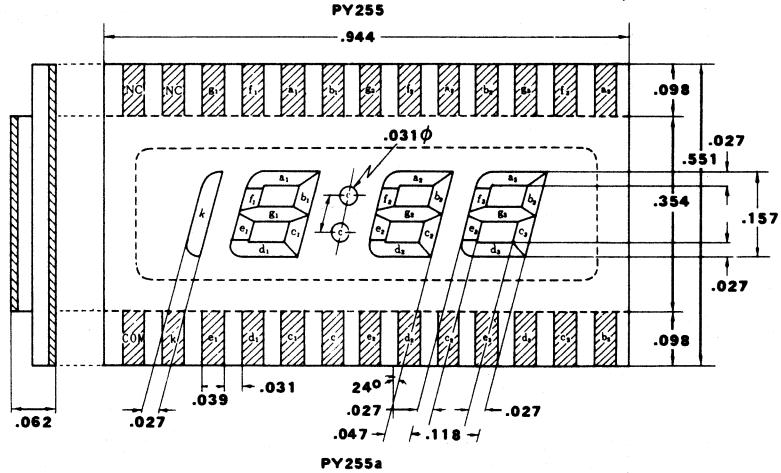
PY253

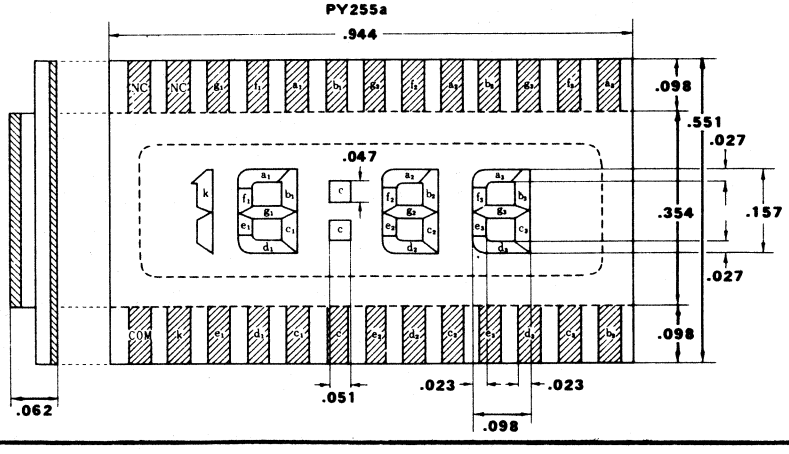


PY254

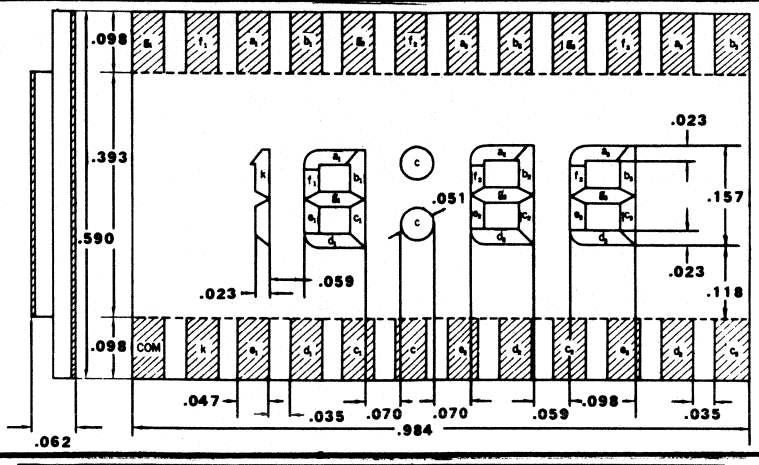


PY255

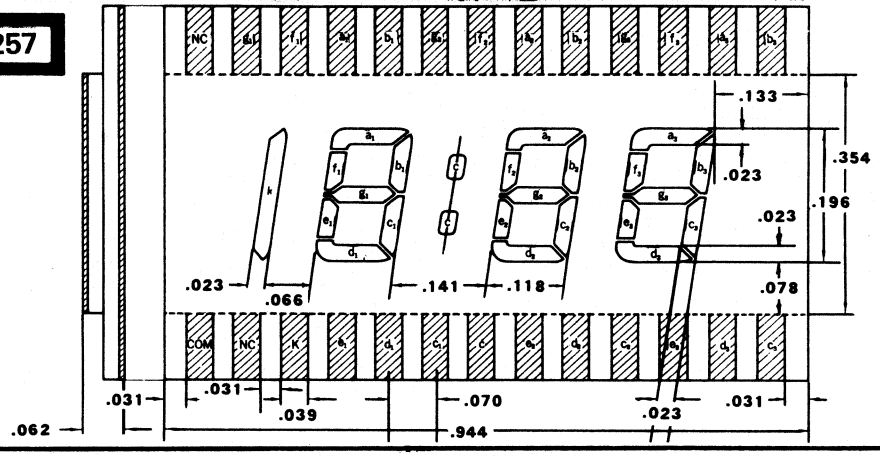




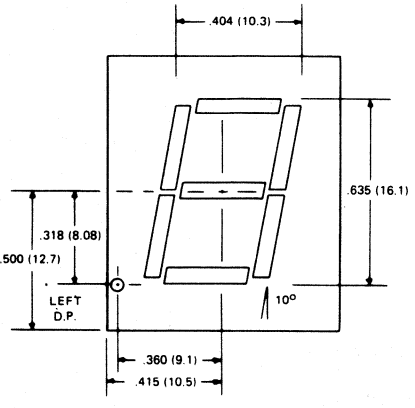
PY256



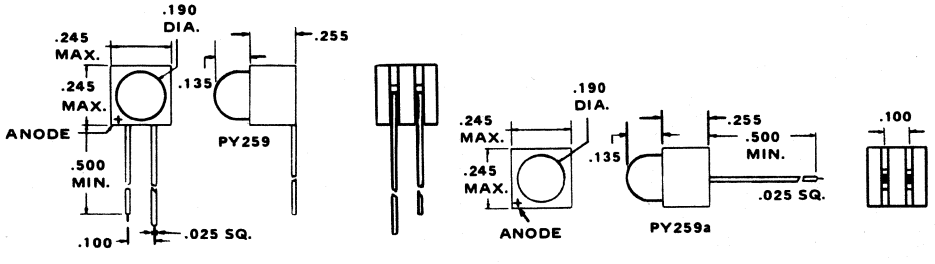
PY257

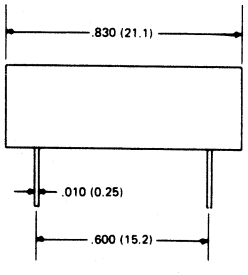


PY258

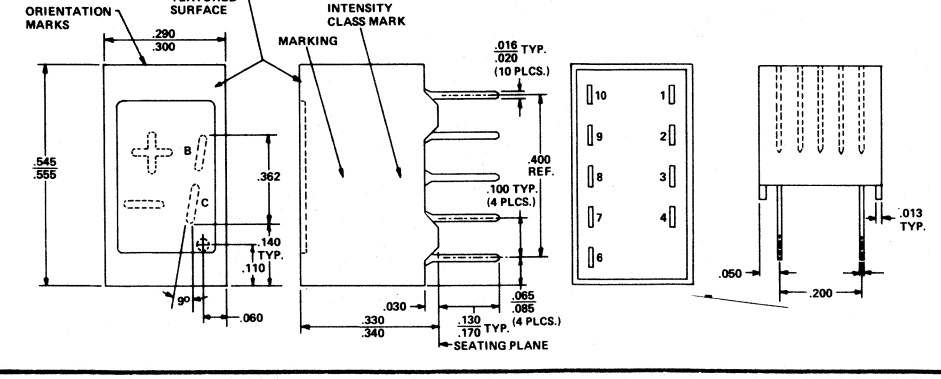


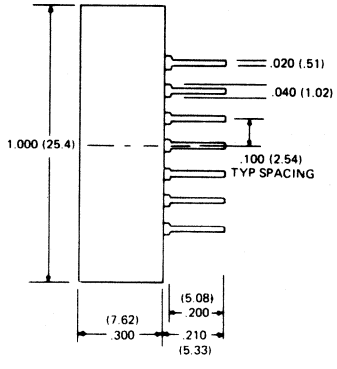
PY259





PY260

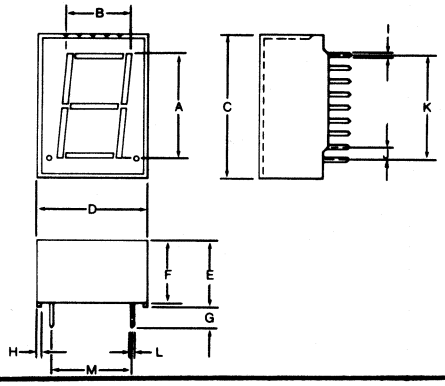




49. OUTLINE DRAWINGS

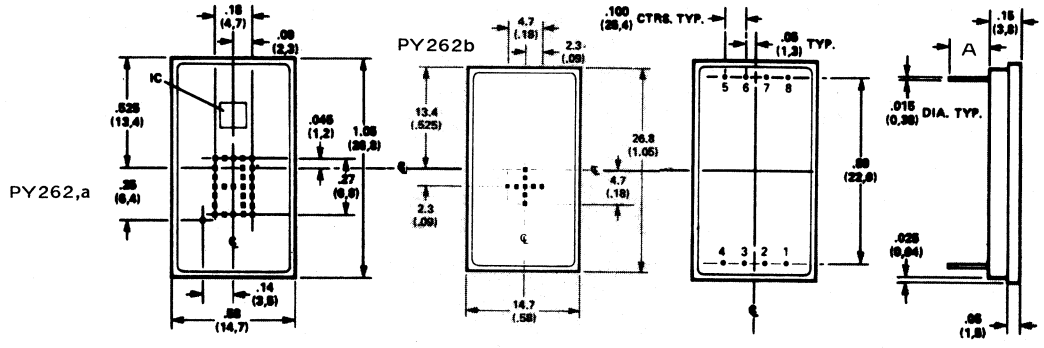
IN DRAWING NUMBER SEQUENCE

PY261



DIM	INCHES MIN	INCHES TYP	INCHES MAX	MILLIMETERS MIN	MILLIMETERS TYP	MILLIMETERS MAX
A		.800			20.32	
B		.480			12.19	
C	1.080		1.100	27.43		27.94
D	.820		.840	20.83		21.34
E	.490		.510	12.45		12.95
F	.455		.475	11.56		12.07
G		.150			3.81	
H		.027			0.69	
I	.016		.020	0.40		0.51
J	.090		.110	2.28		2.80
K	.690		.710	17.53		18.03
L		.010			0.25	
M		.600			15.24	

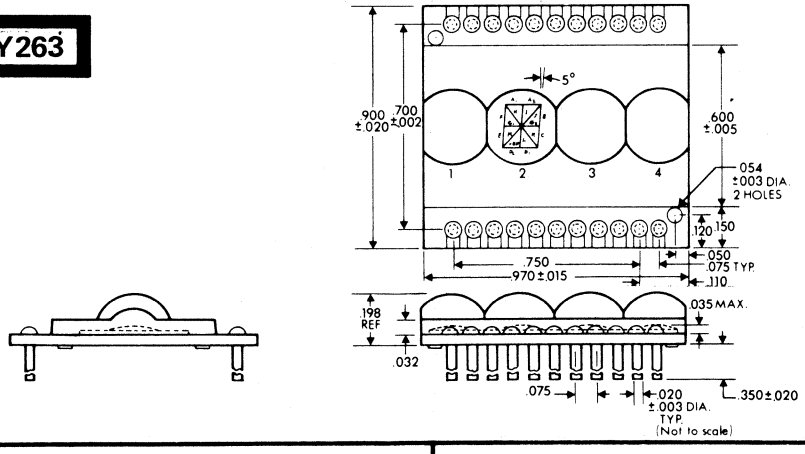
PY262



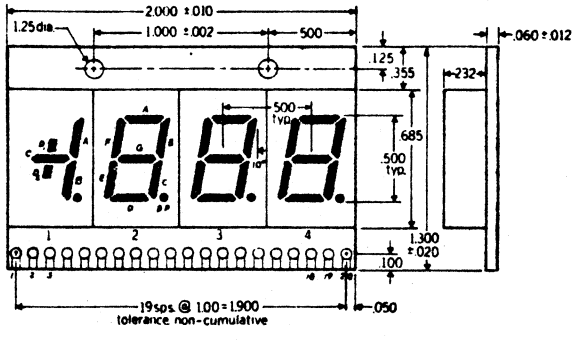
	A
PY262	.190(4.80)
PY262a	.272(6.91)
PY262b	.272(6.91)

INCH (MM)

PY263



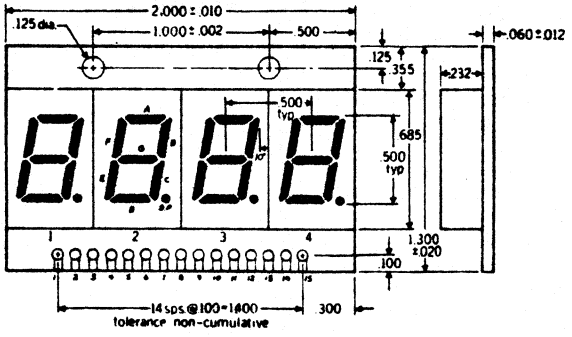
PY264



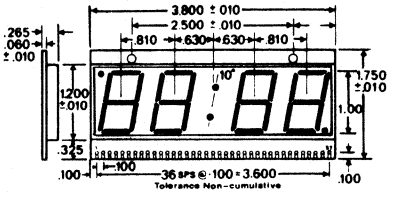
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

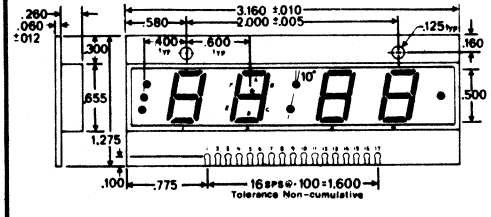
PY265



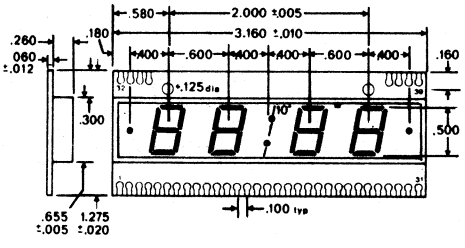
PY266



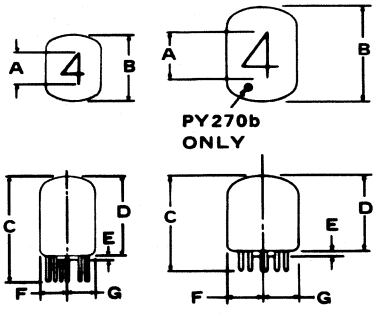
PY267



PY268

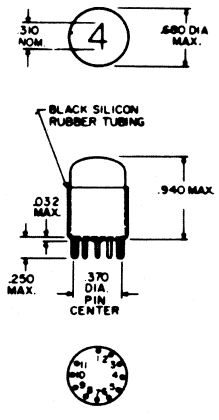


PY270

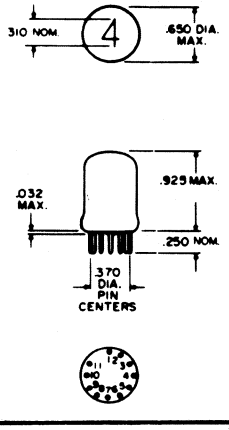


	A	B	C	D	E	F	G
PY270	.310 NOM	.625 MAX	1.000 MAX	.750 MAX	.064 MAX	.235 MAX	.235 MAX
PY270a	.610 NOM	1.020 MAX	1.120 MAX	.862 MAX	.064 MAX	.395 MAX	.395 MAX
PY270b	.610 NOM	1.020 MAX	1.120 MAX	.892 MAX	.064 MAX	.395 MAX	.395 MAX

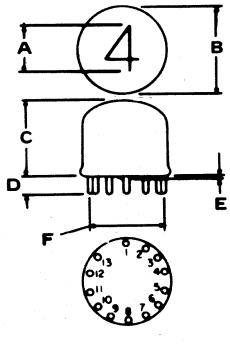
PY271



PY272

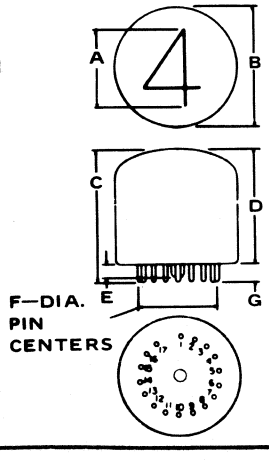


PY273



	A	B	C	D	E	F
PY273	.610 NOM	1.080 MAX	1.125 MAX	.250 NOM	.064 MAX	.656
PY273a	.808 NOM	1.350 MAX	1.212 MAX	.300 NOM	.064 MAX	.656

PY274

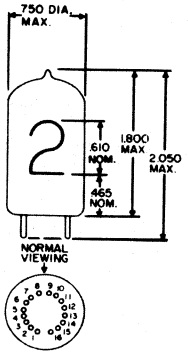


	A	B	C	D	E	F	G
PY274	1.375 NOM	2.060 MAX	2.280 MAX	1.980 MAX	.400 MAX	1.375	.300 NOM
PY274a	2.000 NOM	3.100 MAX	2.650 MAX	2.350 MAX	.400 MAX	1.375	.300 NOM

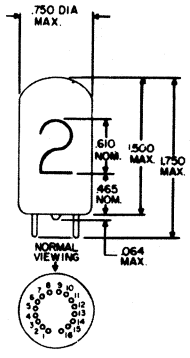
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

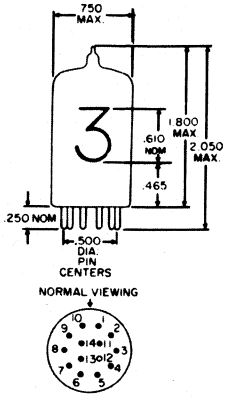
PY276



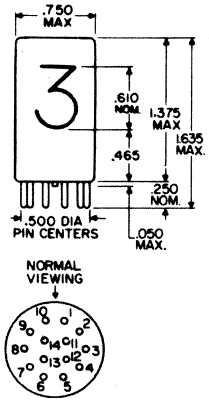
PY277



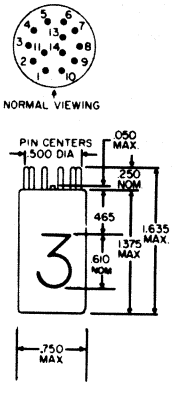
PY278



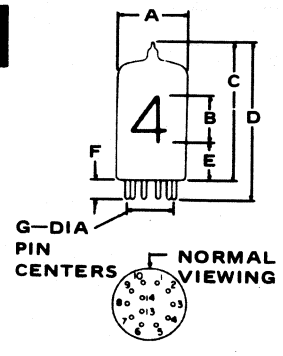
PY279



PY280

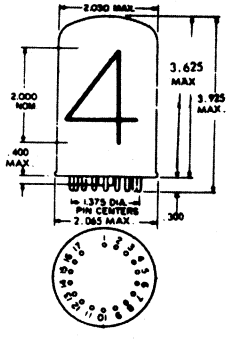


PY281

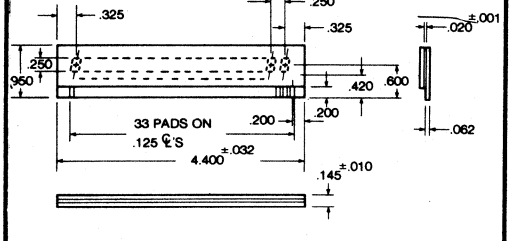


	A	B	C	D	E	F	G
PY281	.875 MAX	.610 NOM	1.812 MAX	2.062 MAX	.530	.250 NOM	.500
PY281a	.875 MAX	.808 NOM	1.812 MAX	2.062 MAX	.530	.250 NOM	.500

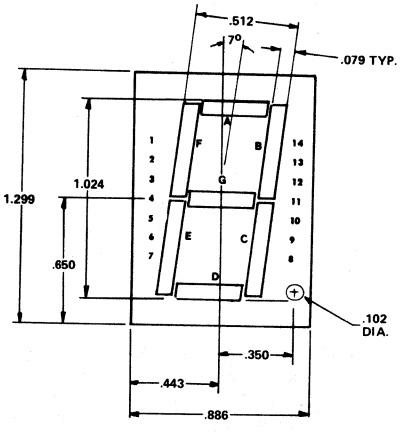
PY282

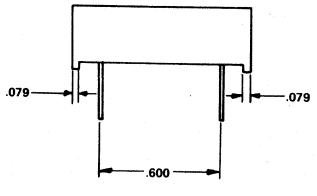


PY283



PY284





(PIN ASSIGNMENTS)

PIN	FUNCTION	PIN	FUNCTION
1	CATHODE A	14	ANODE
2	CATHODE F	13	CATHODE B
3	ANODE	12	NO PIN
4	NO PIN	11	CATHODE G
5	NO PIN	10	CATHODE C
6	ANODE	9	CATHODE DP
7	CATHODE E	8	CATHODE D

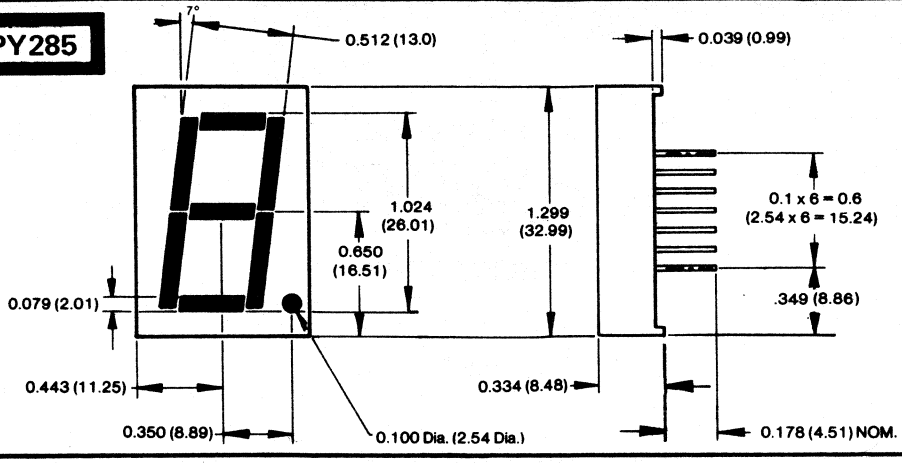
NOTE: PINS 3, 6 & 14 INTERNALLY CONNECTED

NOTE: TOLERANCES ON ALL DIMENSIONS ARE ± .015.

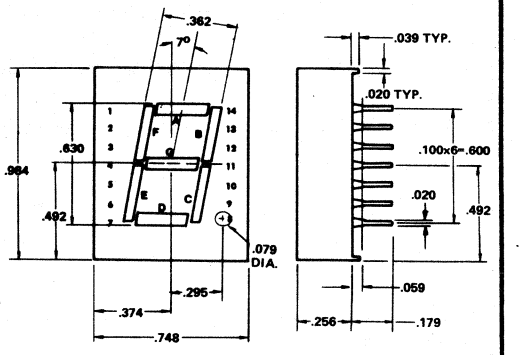
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

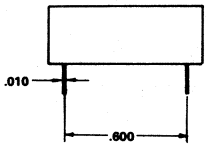
PY285



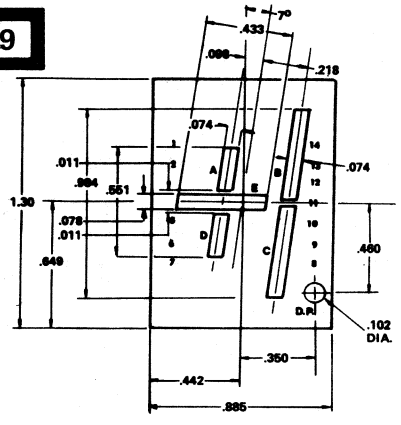
PY286

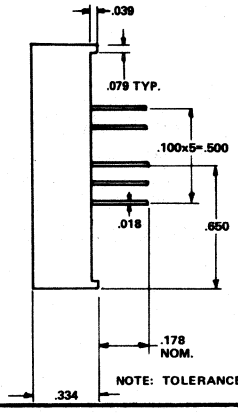


NOTE: TOLERANCE ON ALL DIMENSIONS ARE ± .015.



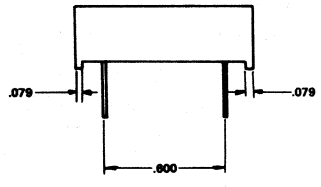
PY289



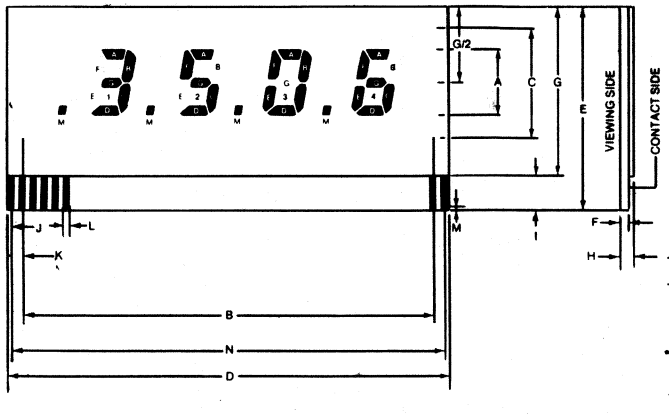


NOTE: TOLERANCES ON ALL DIMENSIONS ARE ±.015.

PY292



	PY292	PY292a	PY292b	PY292c	PY292d	PY292e	PY292f	PY292g
A	.3 7,6	.4 10,1	.5 12,7	.6 15,2	.3 7,6	.4 10,1	.5 12,7	.6 15,2
B	1.00 25,4	1.00 25,4	1.25 31,7	1.25 31,7	1.75 44,4	2.00 50,8	2.25 57,15	2.50 63,5
C	.45 11,4	.60 15,2	.70 17,7	.80 20,3	.45 11,4	.60 15,2	.70 17,7	.80 20,3
D	1.25 31,75	1.25 31,75	1.50 38,10	1.50 38,10	2.00 50,80	2.25 57,15	2.50 63,5	2.75 69.85
E	.95 24,13	1.10 27,94	1.25 31,75	1.35 34,29	.95 24,13	1.10 27,94	1.25 31,75	1.35 34,29
F	.048 1,219	.048 1,219	.048 1,219	.048 1,219	.048 1,219	.048 1,219	.048 1,219	.048 1,219
D	1.25 31,7	1.25 31,7	1.50 38,1	1.50 38,1	2.00 50,8	2.25 57,15	2.50 63.5	2.75 69.85
G	.70 17,78	.85 21,59	1.00 25,4	1.10 27,94	.70 17,78	.85 21,59	1.00 25,4	1.10 27,94
H	.130 3,3	.130 3,3	.130 3,3	.130 3,3	.130 3,3	.130 3,3	.130 3,3	.130 3,3
I	.250 6,35	.250 6,35	.250 6,35	.250 6,35	.250 6,35	.250 6,35	.250 6,35	.250 6,35
J	.025 0,635	.025 0,635	.025 0,635	.025 0,635	.025 0,635	.025 0,635	.025 0,635	.025 0,635
K	.050 1,27	.050 1,27	.050 1,27	.050 1,27	.050 1,27	.050 1,27	.050 1,27	.050 1,27
L	.030 0,762	.030 0,762	.030 0,762	.030 0,762	.030 0,762	.030 0,762	.030 0,762	.030 0,762
M	.040 1,016	.040 1,016	.040 1,016	.040 1,016	.040 1,016	.040 1,016	.040 1,016	.040 1,016
N	1.20	1.20	1.45	1.45	1.95	2.20	2.45	2.70
NUMBER OF PADS		25	25	30	30	40	45	50	55



Vertical Height: Characters on 10° Slant

**Within I dimension ± .010

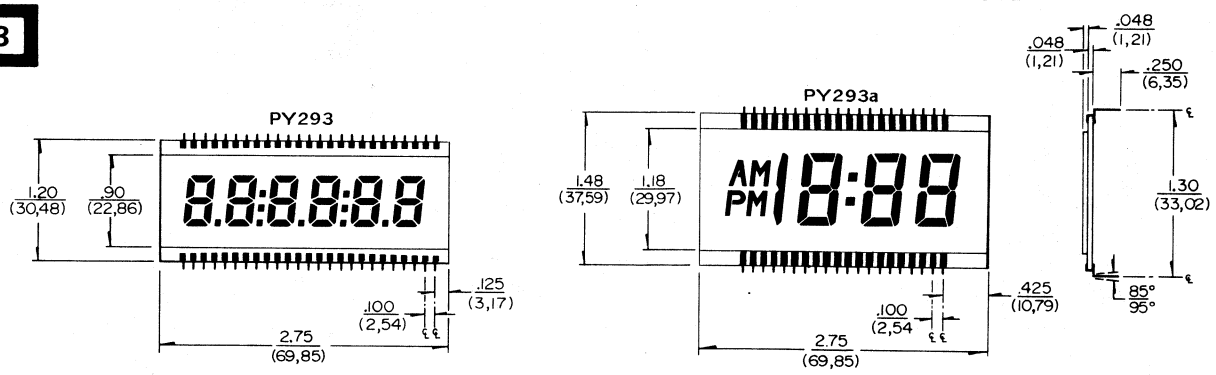
***Last pad position available, not necessarily last pad used

INCH
mm

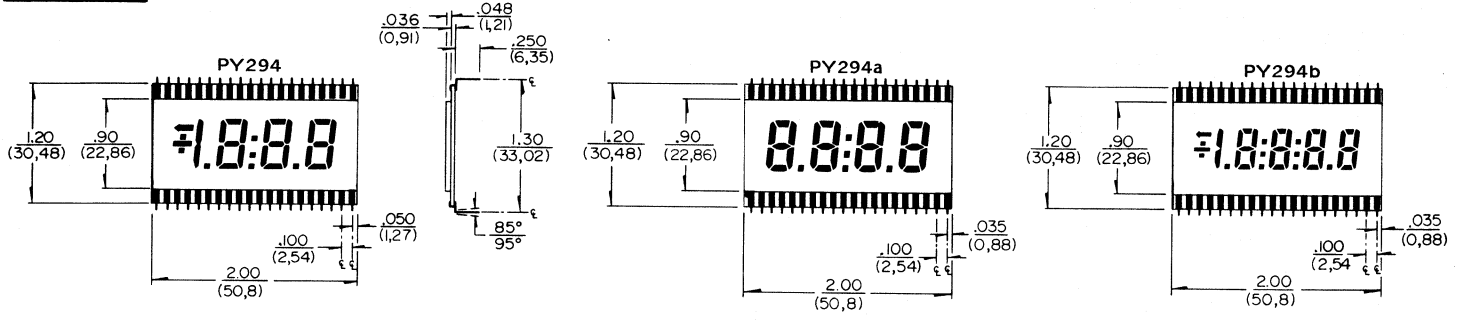
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

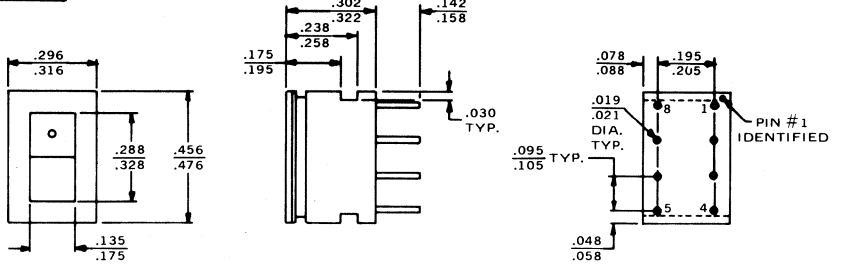
PY293



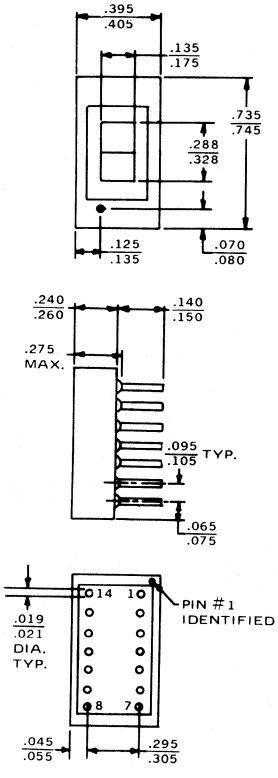
PY294



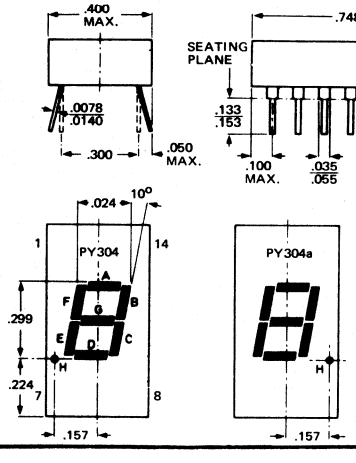
PY302



PY303



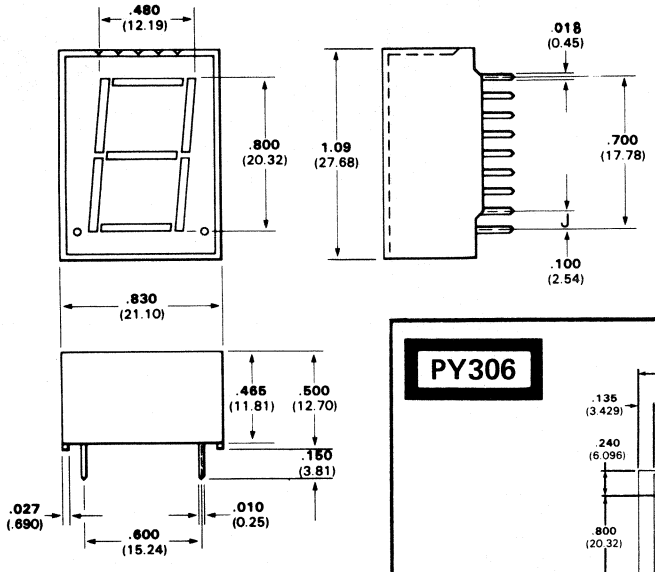
PY304



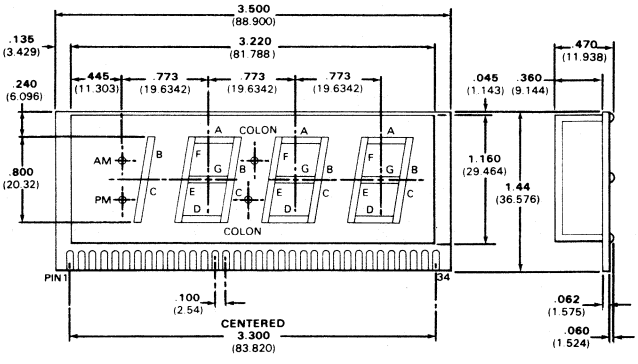
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

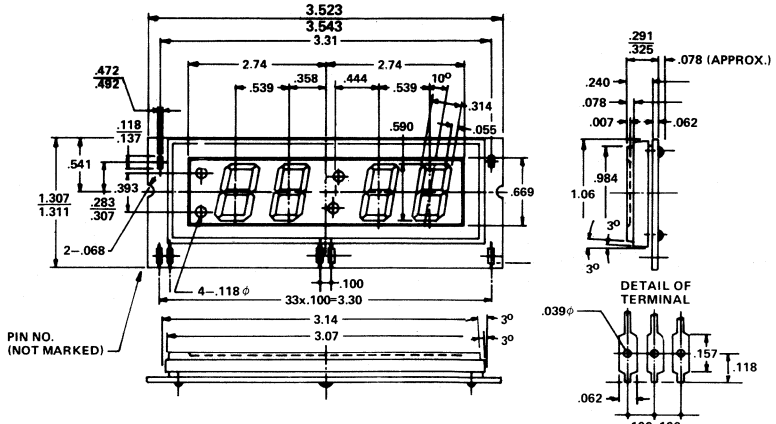
PY305



PY306

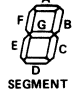


PY308



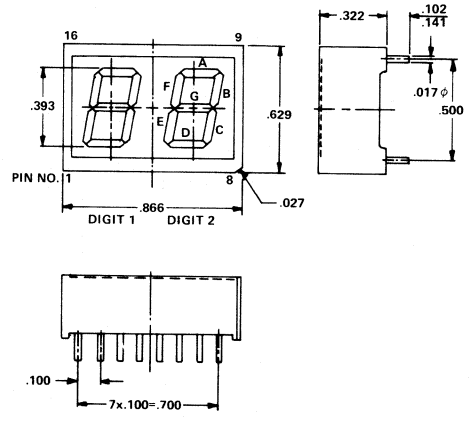
12/24 HOURS TYPE & DISPLAYED FONT

TYPE	FULLY DISPLAYED FONT
PY308	
PY308a	
PY308b	
PY308c	



SEGMENT

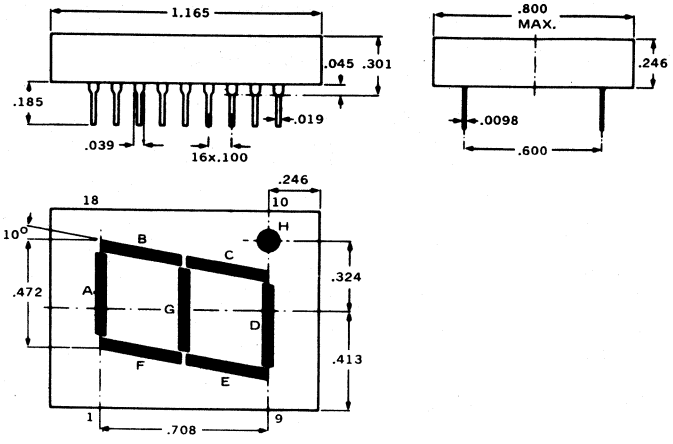
PY309



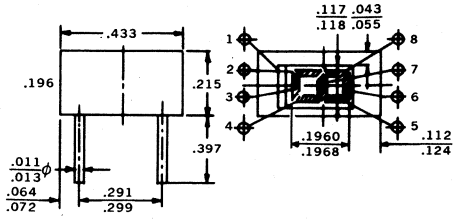
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

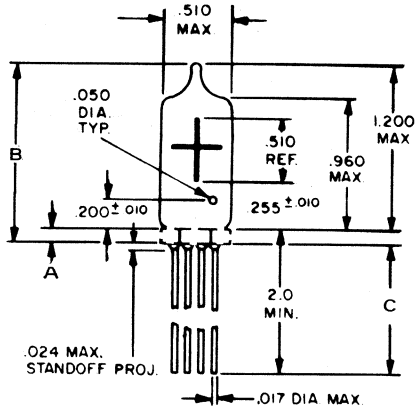
PY310

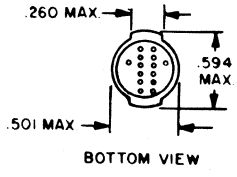


PY311



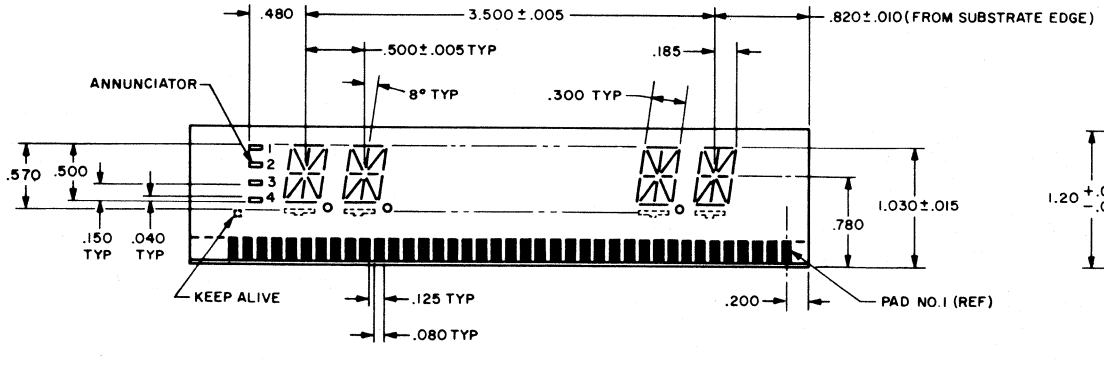
PY315

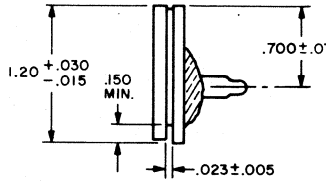


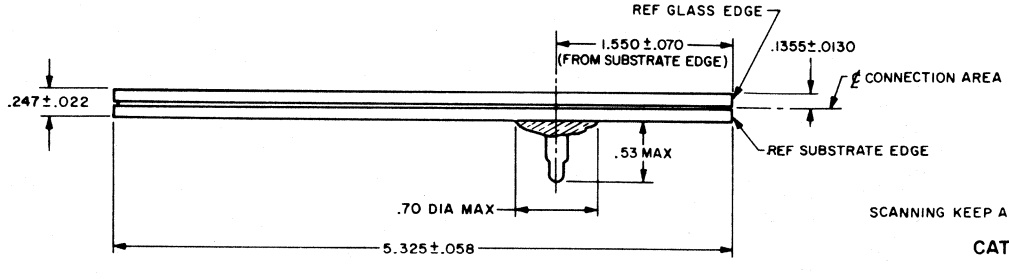


	A	B	C	REMARKS
PY315	NA	NA	NA	WITHOUT DOTTED BASE
PY315a	.129	1.329	.190 MAX	WITH DOTTED BASE
PY315b	.224	1.424	.190 MAX	WITH DOTTED BASE

PY316



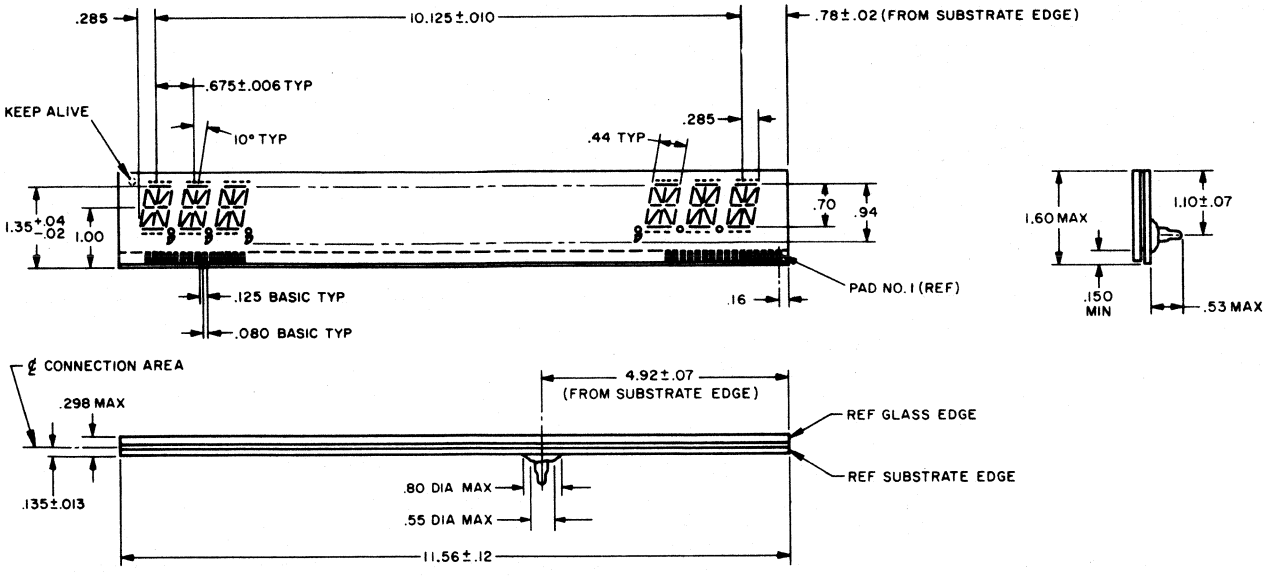




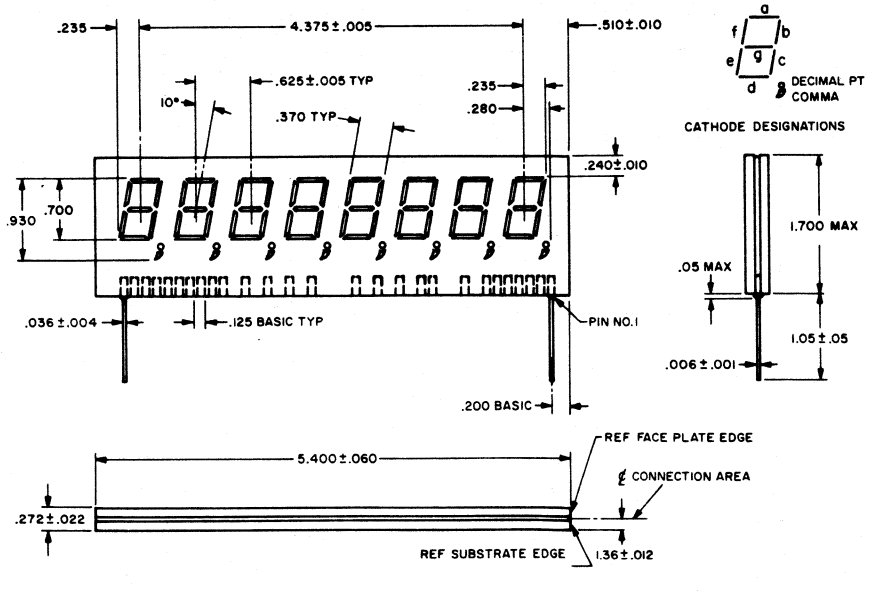
SCANNING KEEP ALIVE ⊏=⊐=⊐=⊐ ○ DECIMAL POINT

CATHODE DESIGNATIONS

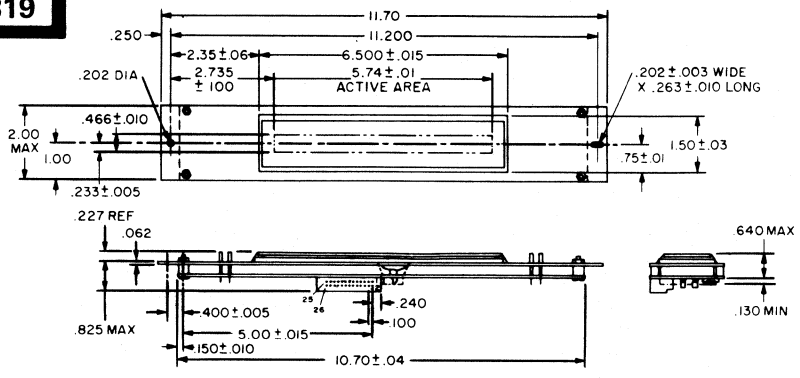
PY317


.285
10.125±.010
.78±.02 (FROM SUBSTRATE EDGE)
.675±.006 TYP
KEEP ALIVE
10° TYP
.285
.44 TYP
1.35 +.04 -.02
1.00
.70
.94
.125 BASIC TYP
.080 BASIC TYP
.16
PAD NO. 1 (REF)
1.60 MAX
1.10±.07
.150 MIN
.53 MAX
℄ CONNECTION AREA
.298 MAX
4.92±.07
(FROM SUBSTRATE EDGE)
REF GLASS EDGE
REF SUBSTRATE EDGE
.135±.013
.80 DIA MAX
.55 DIA MAX
11.56±.12

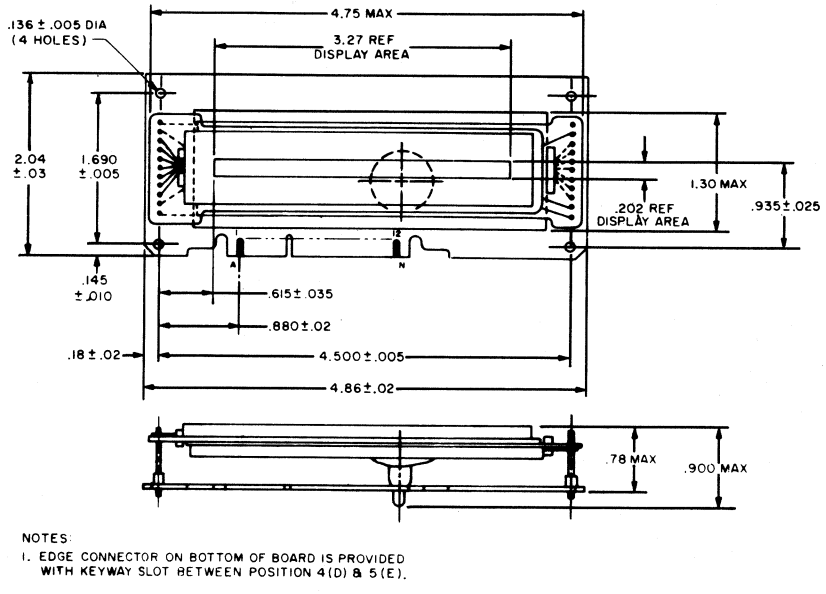
PY318


.235
4.375±.005
.510±.010
.625±.005 TYP
10°
.370 TYP
.235
.280
.240±.010
.930
.700
.036±.004
.125 BASIC TYP
PIN NO. 1
.200 BASIC
a
f
b
e
g
c
d
DECIMAL PT
COMMA
CATHODE DESIGNATIONS
1.700 MAX
.05 MAX
1.05±.05
.006±.001
5.400±.060
REF FACE PLATE EDGE
℄ CONNECTION AREA
.272±.022
REF SUBSTRATE EDGE
1.36±.012

PY319

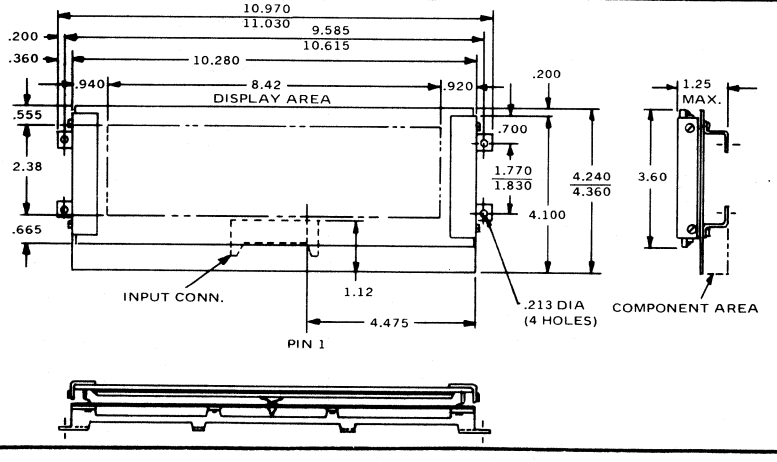


PY320



NOTES:
1. EDGE CONNECTOR ON BOTTOM OF BOARD IS PROVIDED WITH KEYWAY SLOT BETWEEN POSITION 4(D) & 5(E).

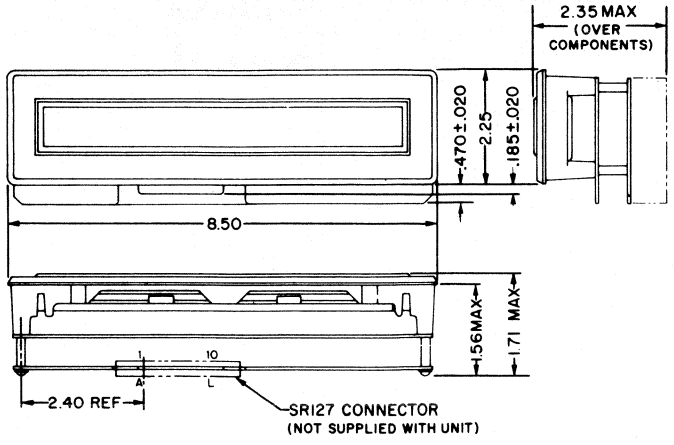
PY321



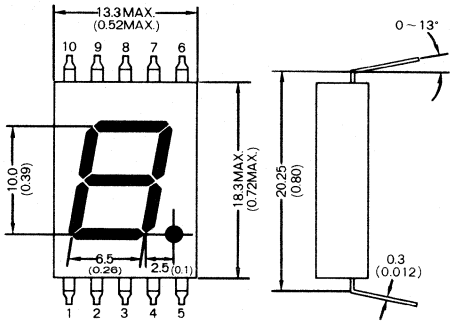
49. OUTLINE DRAWINGS

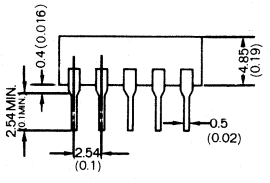
IN DRAWING NUMBER SEQUENCE

PY322

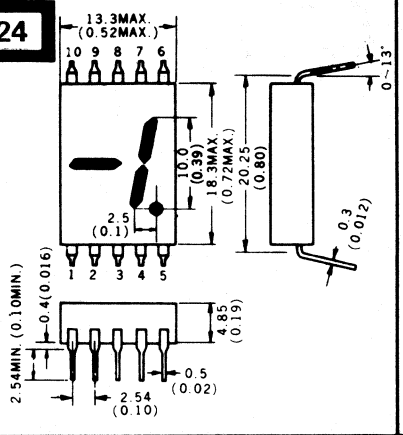


PY323

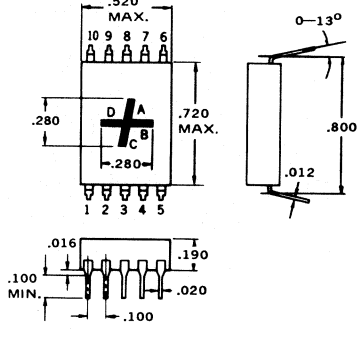




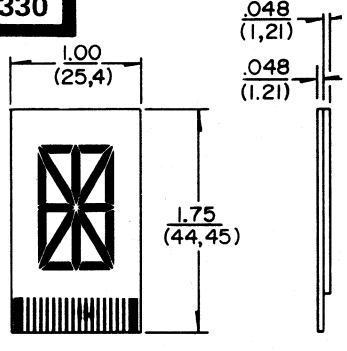
PY324



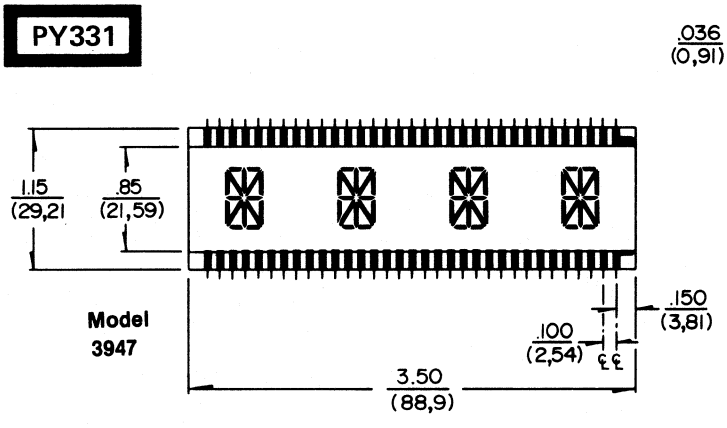
PY325



PY330



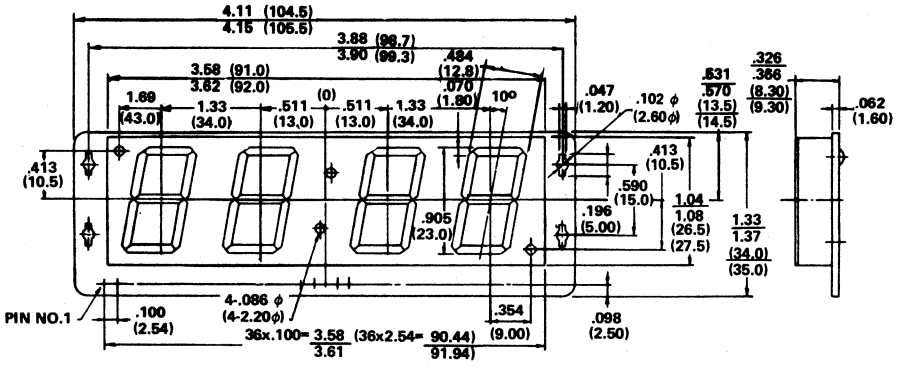
PY331



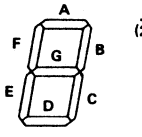
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

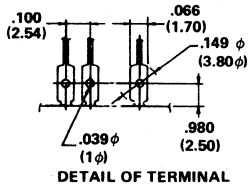
PY332



AM/PM 10's HOUR UNIT HOUR COLONS 10's MIN UNIT MIN ALARM/SLEEP

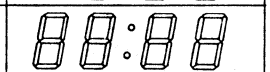
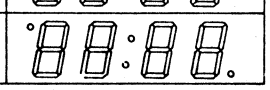
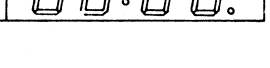


SEGMENT NAME



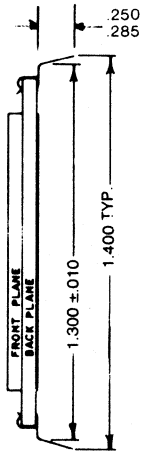
DETAIL OF TERMINAL

TYPE NO. & FULLY DISPLAYED FONT

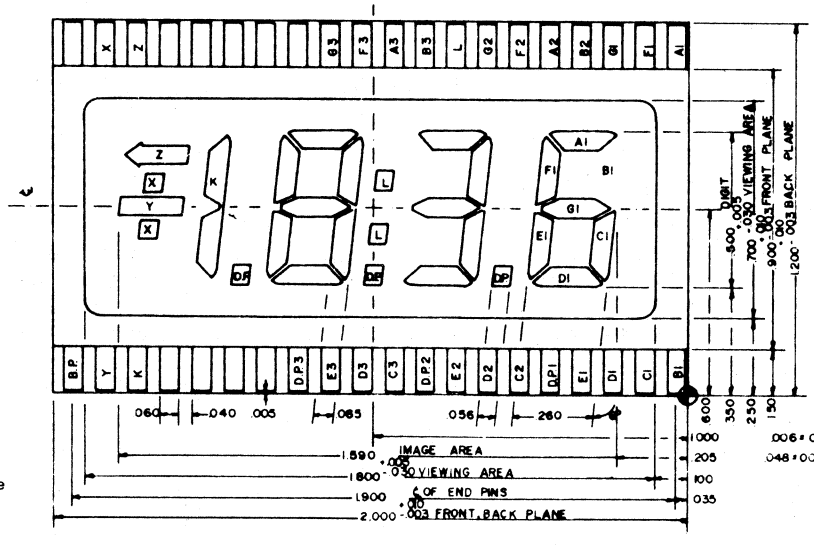
TYPE NO.	FULLY DISPLAYED FONT
PY332	
PY332a	
PY332b	

PY333

NOTE: Connector clips not shown in this view.

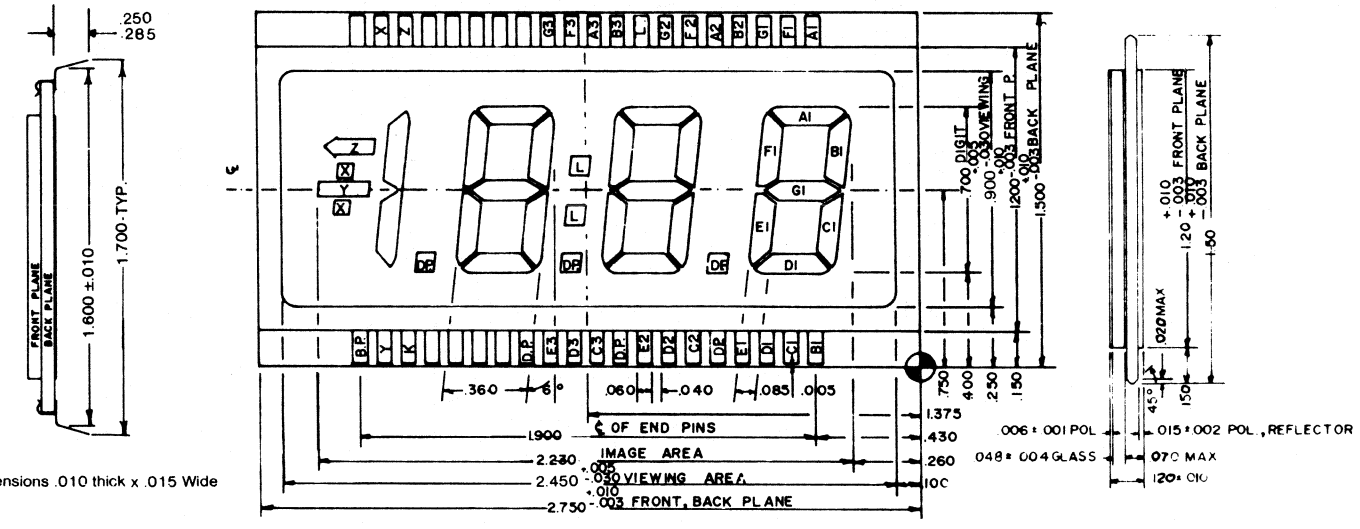


Clip dimensions .010 thick x .015 wide



PY334

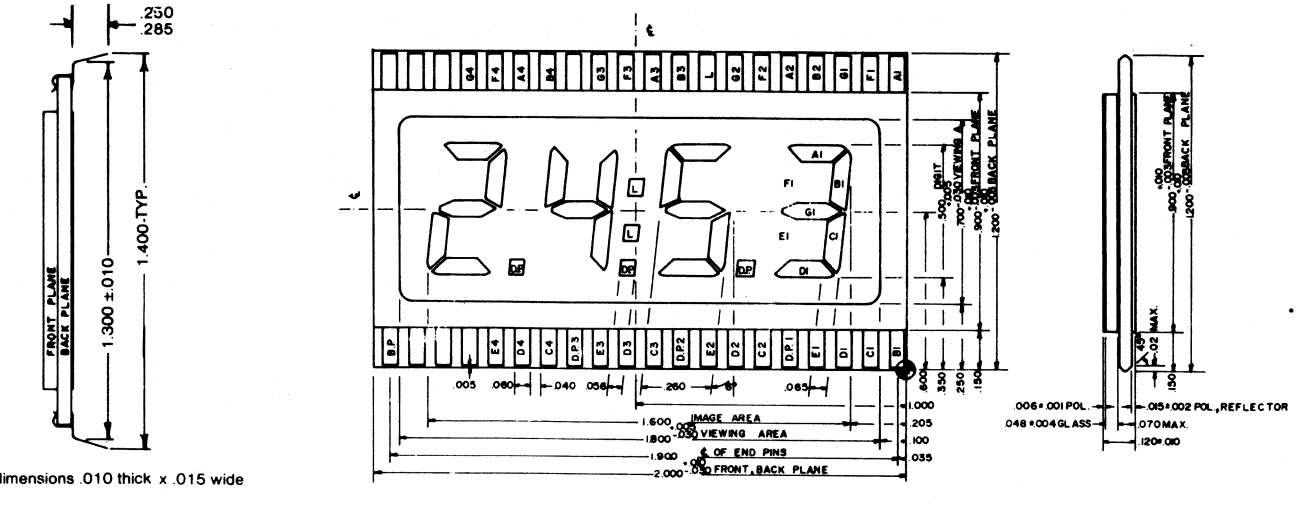
NOTE: Connector clips not shown in this view.



Clip dimensions .010 thick x .015 Wide

PY336

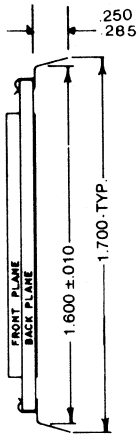
NOTE: Connector clips not shown in this view.



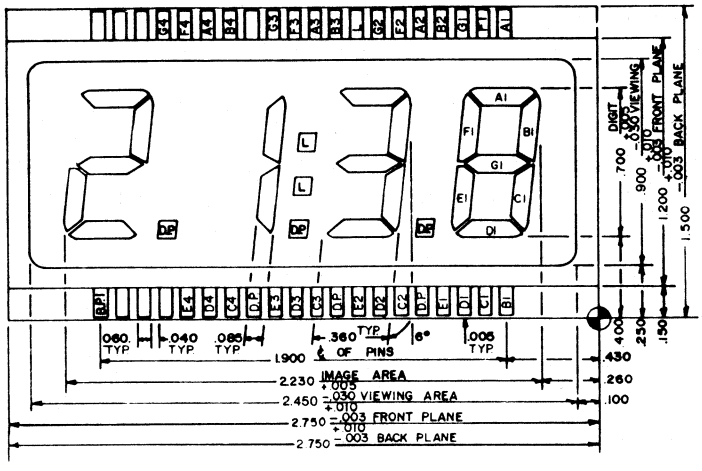
Clip dimensions .010 thick x .015 wide

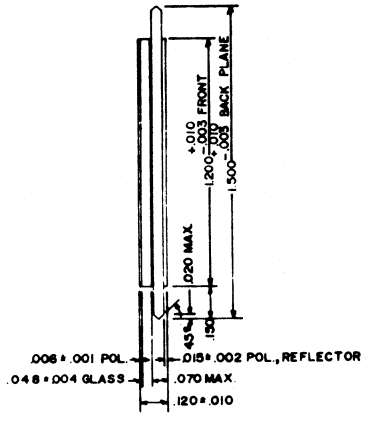
PY337

NOTE: Connector clips not shown in this view.



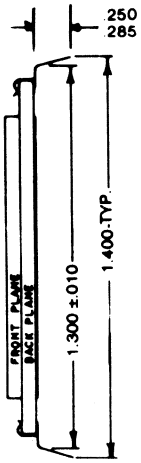
Clip dimensions .010 thick x .015 Wide



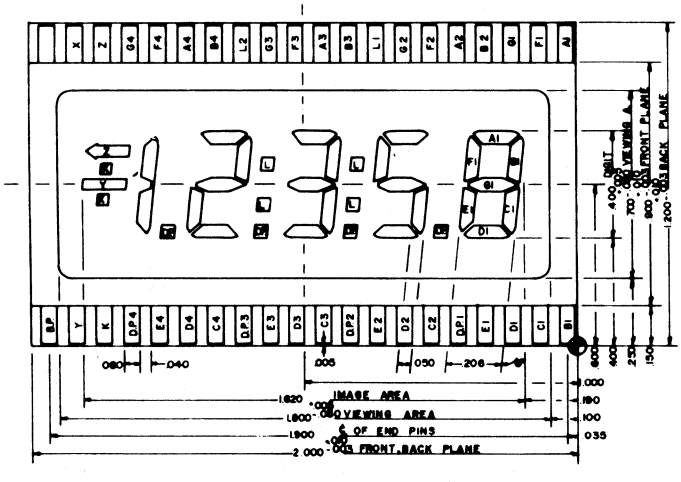


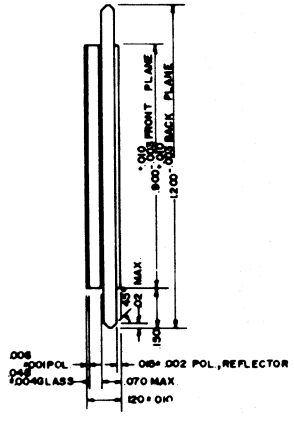
PY339

NOTE: Connector clips not shown in this view.



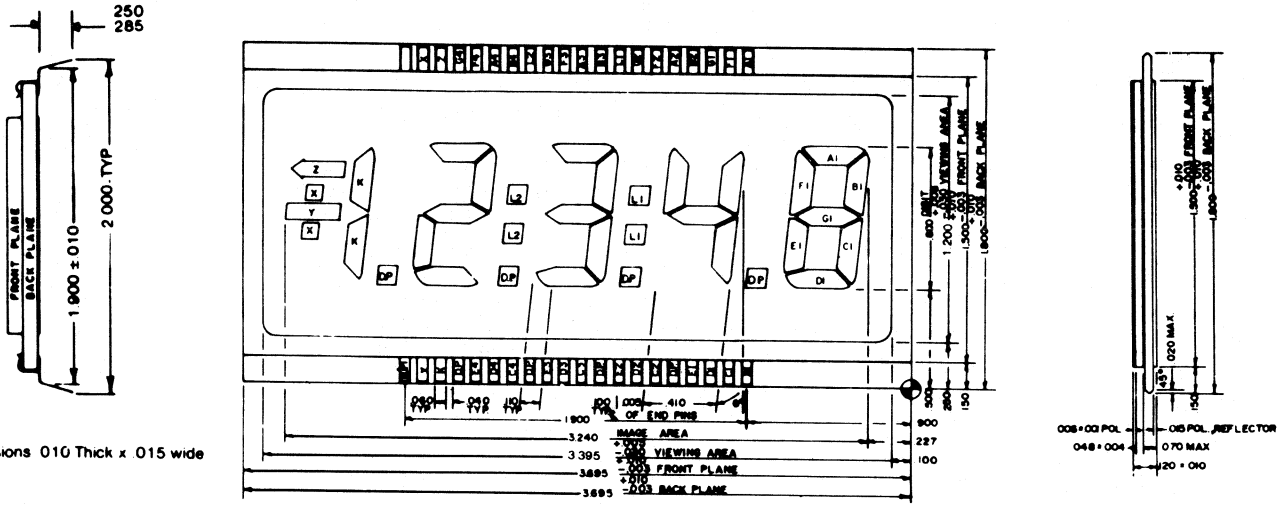
sions .010 thick x .015 wide





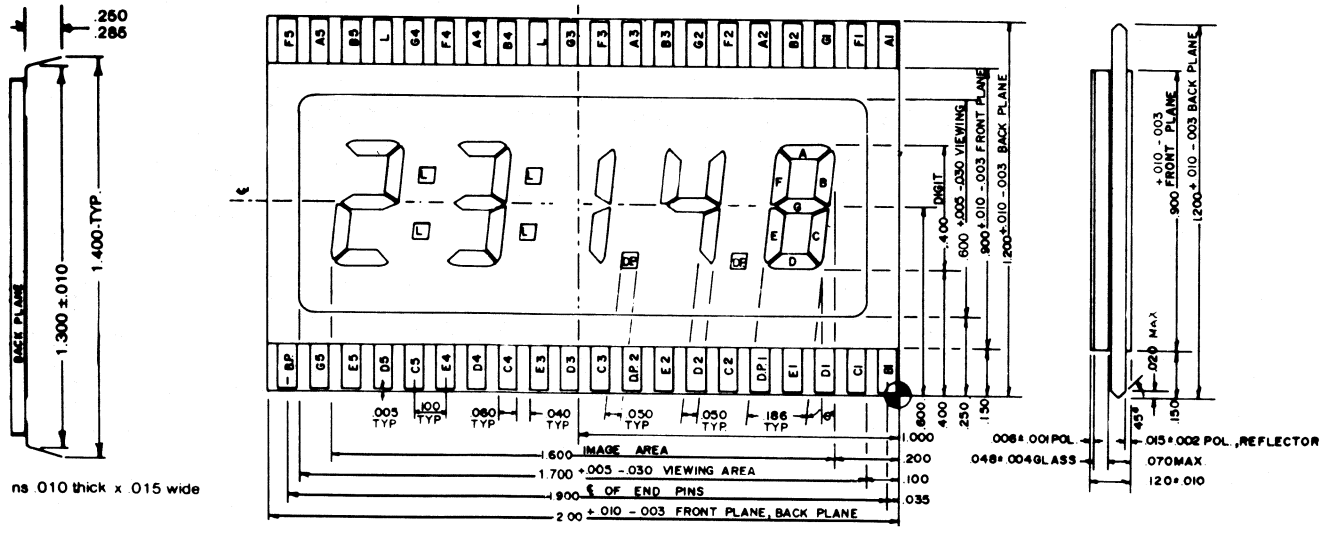
PY340

NOTE: Connector clips not shown in this view.



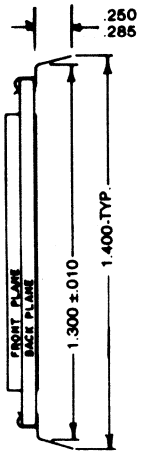
PY341

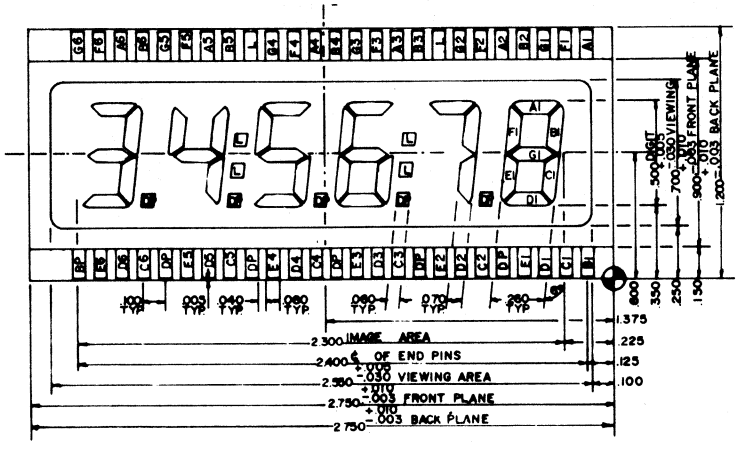
NOTE: Connector clips not shown in this view.

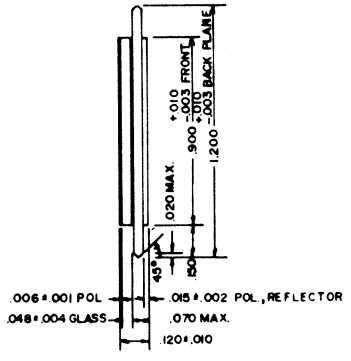


PY342

NOTE: Connector clips not shown in this view.



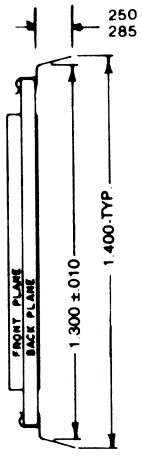


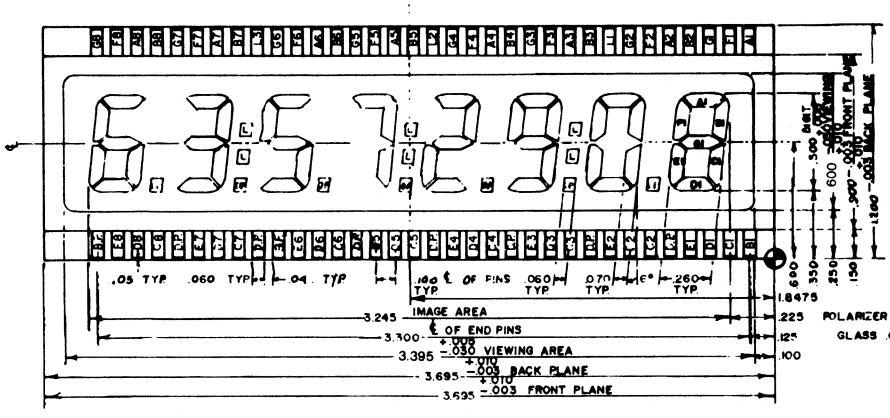


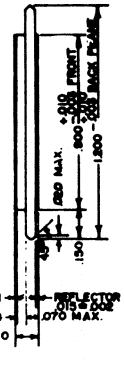
Clip dimensions .010 thick x .015 wide

PY344

NOTE: Connector clips not shown in this view.



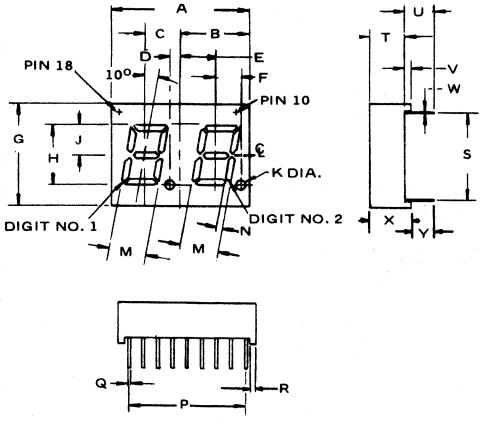




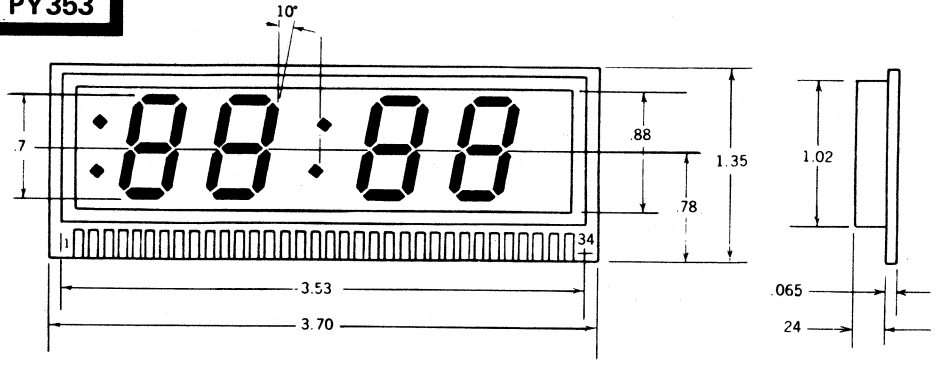
Clip dimensions .010 thick x .015 wide

PY349

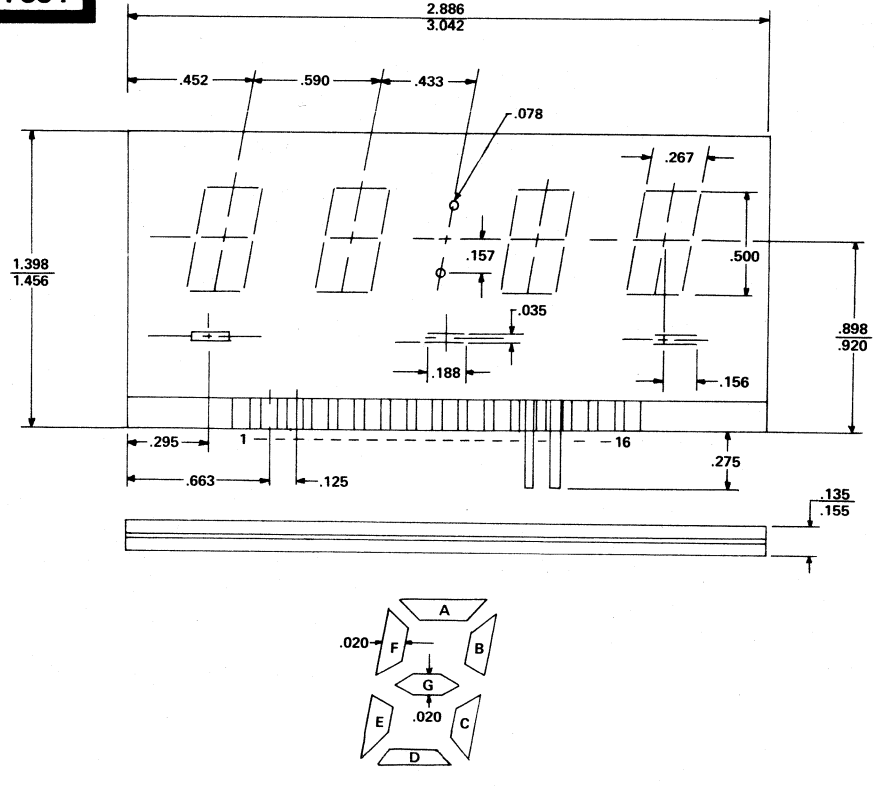
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T	U	V	W	X	Y
PY349	24.0	12.0	6.22	1.90	6.22	4.32	18.0	10.1	5.08	1.57 TYP	6.60	1.02 TYP	20.3	.510 TYP	.890 TYP	15.2	5.99	6.10	1.02 TYP	.250 TYP		
PY349a	24.0	12.0	6.00		6.00	4.30	19.0	11.0			7.00		20.3	.500		15.2				.250	6.50	3.50 MIN
PY349b	25.0	12.5	6.25		6.25	4.50	19.0	14.4			8.00		20.3	.500		15.2				.250	8.00	3.50 MIN



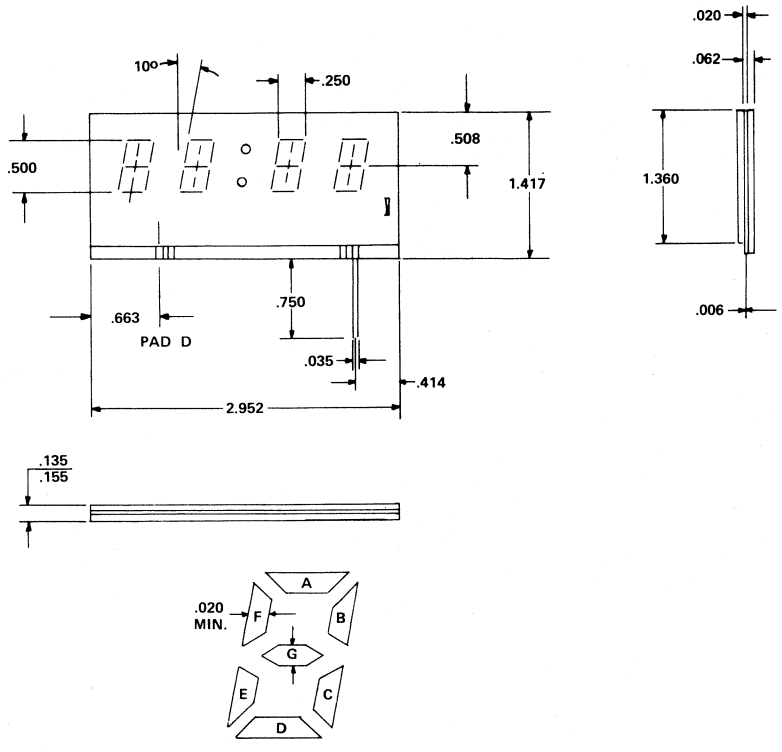
PY353



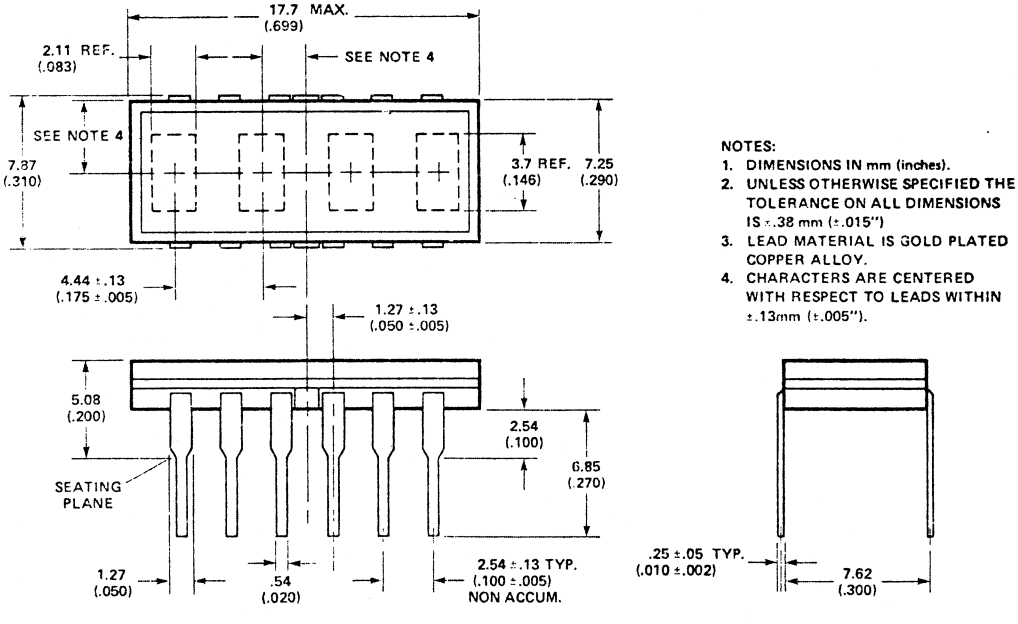
PY354



PY355



PY36

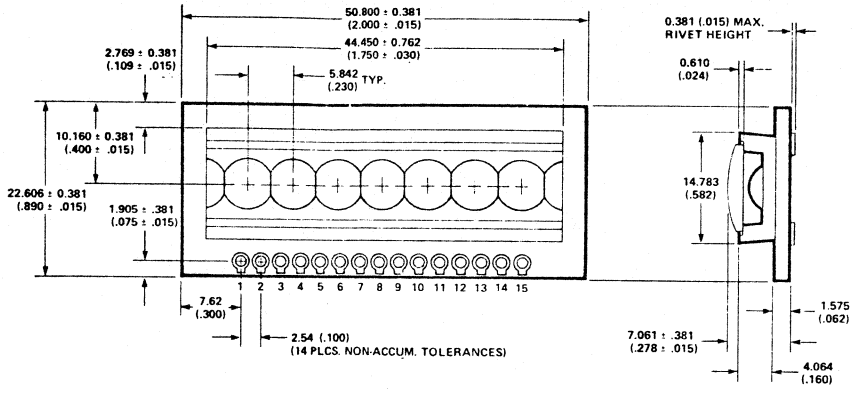


NOTES:
1. DIMENSIONS IN mm (inches).
2. UNLESS OTHERWISE SPECIFIED THE TOLERANCE ON ALL DIMENSIONS IS ±.38 mm (±.015")
3. LEAD MATERIAL IS GOLD PLATED COPPER ALLOY.
4. CHARACTERS ARE CENTERED WITH RESPECT TO LEADS WITHIN ±.13mm (±.005").

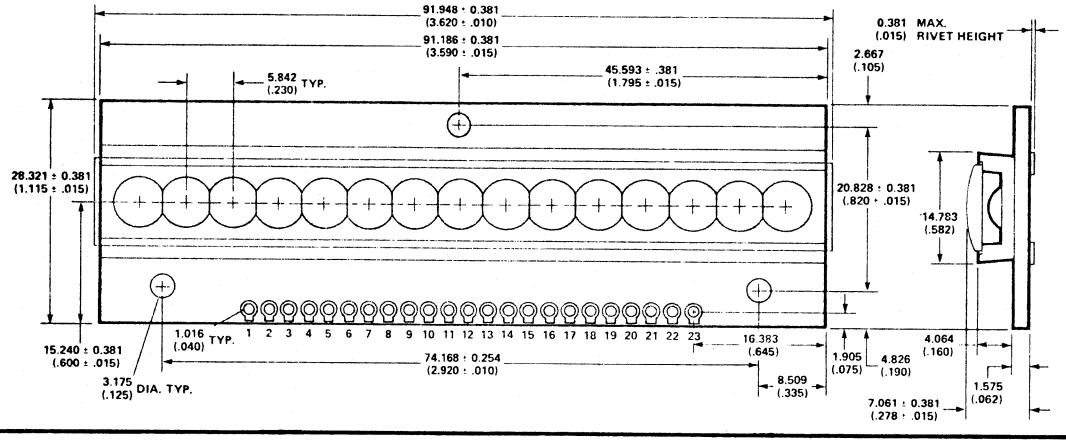
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

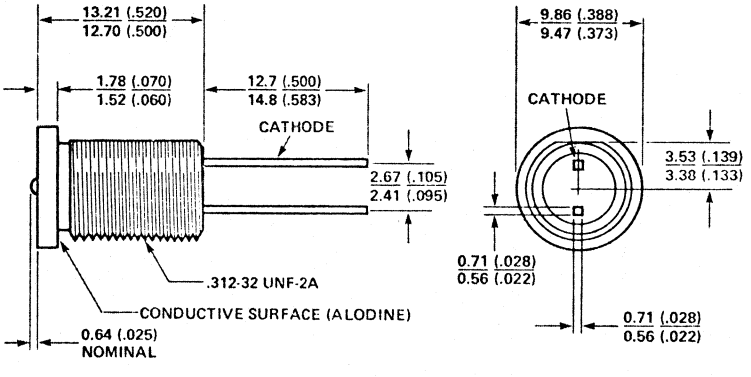
PY363



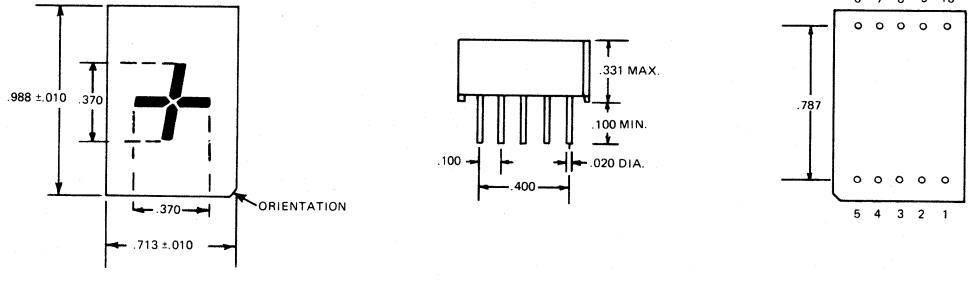
PY364



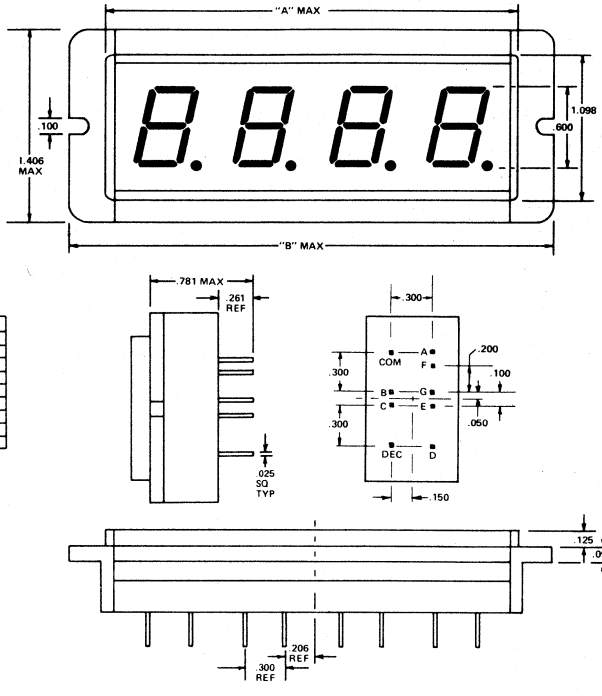
PY371



PY372

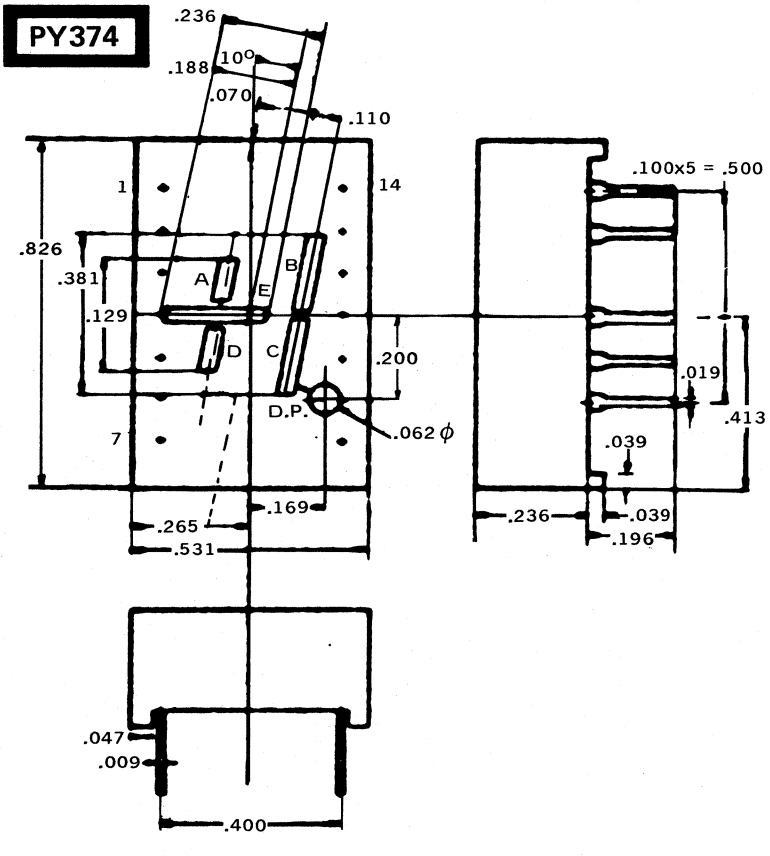


PY373

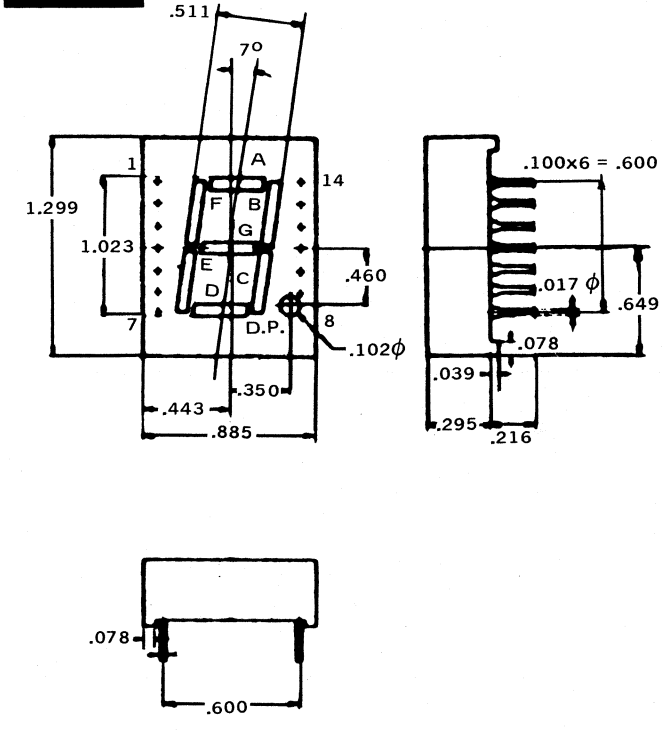


	A	B
PY373	1.606	2.098
PY373a	2.323	2.815
PY373b	3.040	3.532
PY373c	3.757	4.249
PY373d	4.474	4.966
PY373e	5.191	5.683
PY373f	5.908	6.400
PY373g	6.625	7.117
PY373h	7.342	7.834

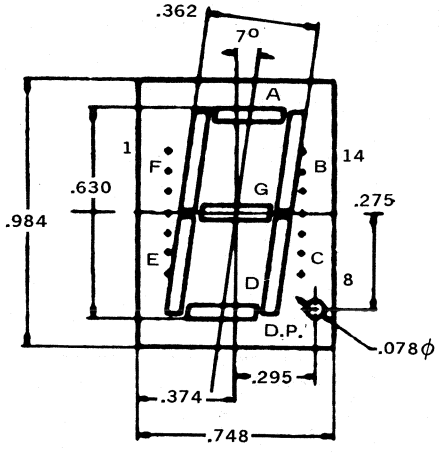
PY374

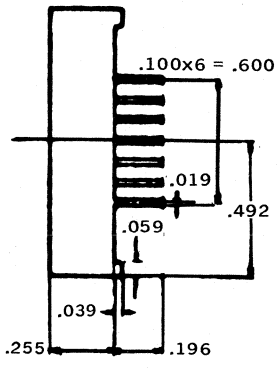


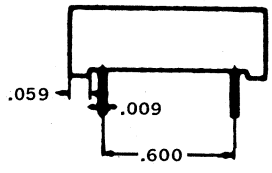
PY375



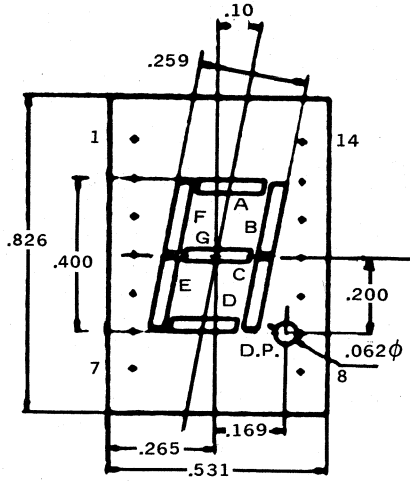
PY376

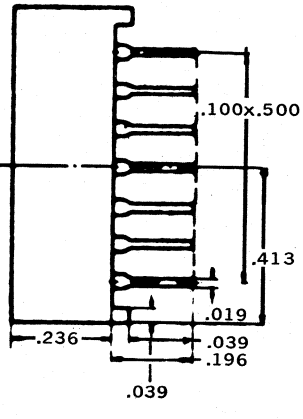

.362
7°
A
1
F
B
14
.630
G
.275
.984
E
C
8
D
D.P.
.078ϕ
.374
.295
.748

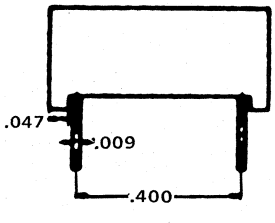

.100x6 = .600
.019
.492
.059
.039
.255
.196


.059
.009
.600

PY377


.10
.259
1
14
A
F
B
G
.826
.400
C
E
D
.200
D.P.
.062ϕ
7
8
.265
.169
.531

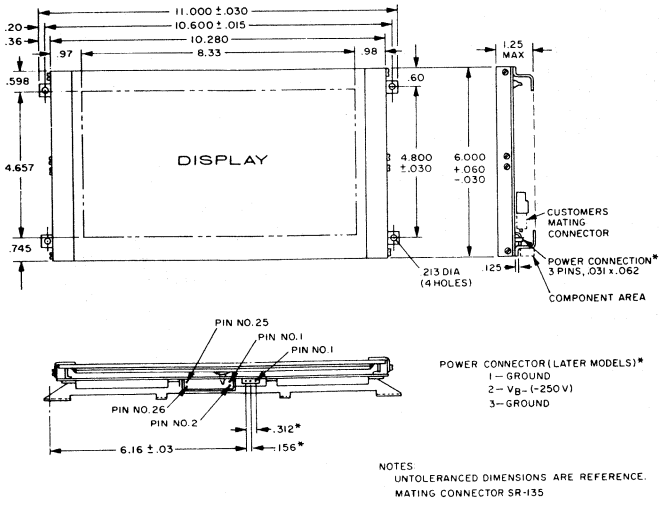

.100x.500
.413
.019
.236
.039
.196
.039


.047
.009
.400

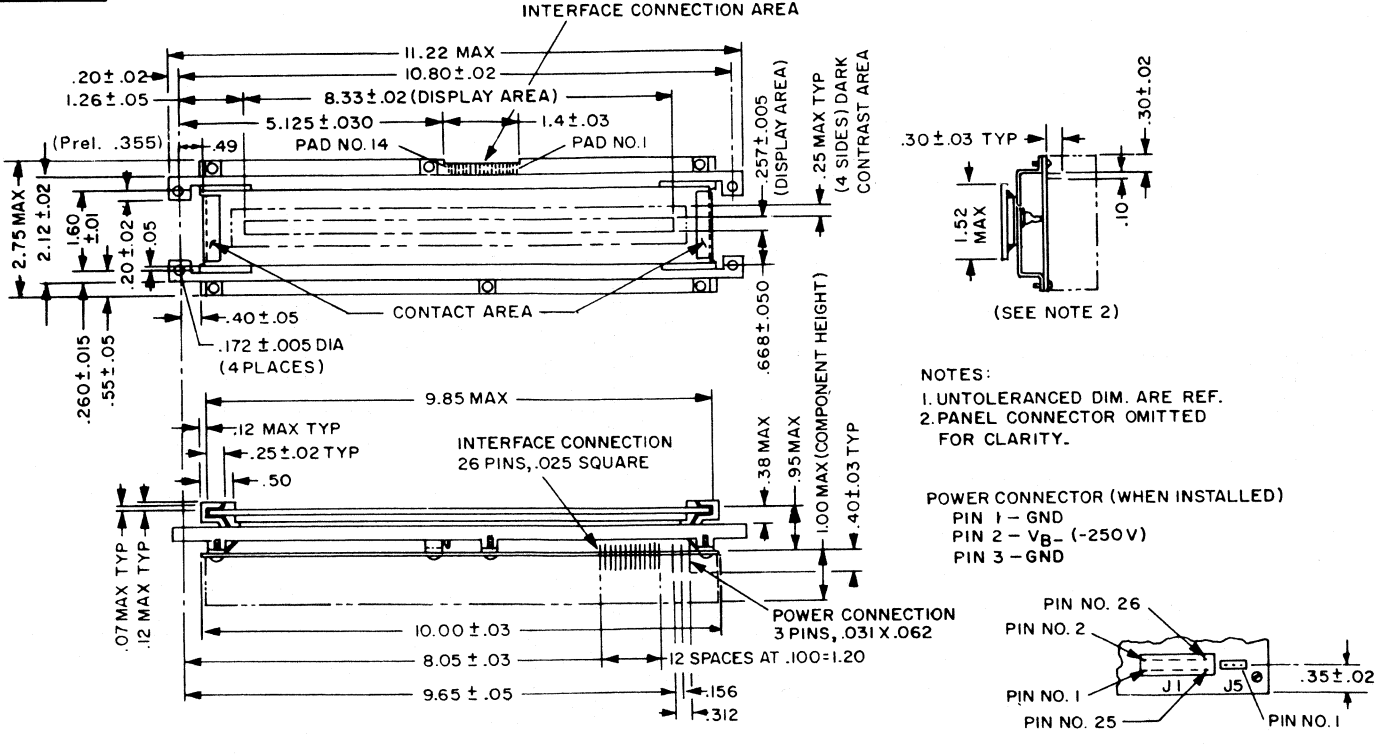
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY378



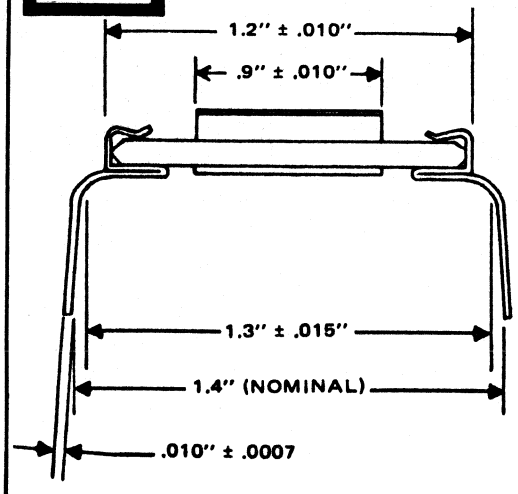
PY379

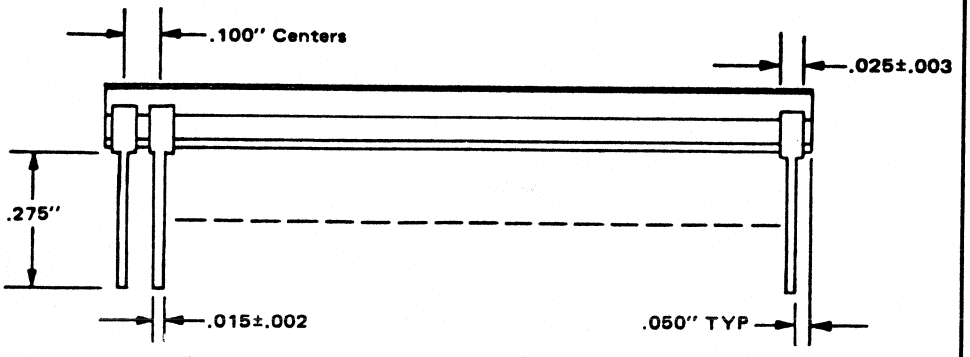


49. OUTLINE DRAWINGS

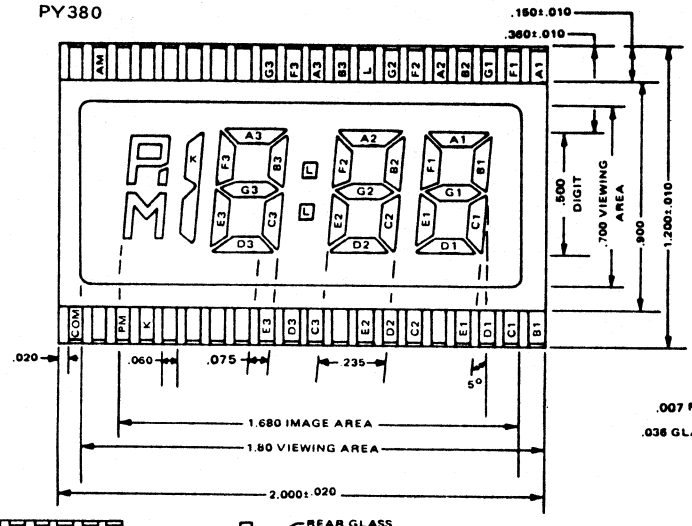
IN DRAWING NUMBER SEQUENCE

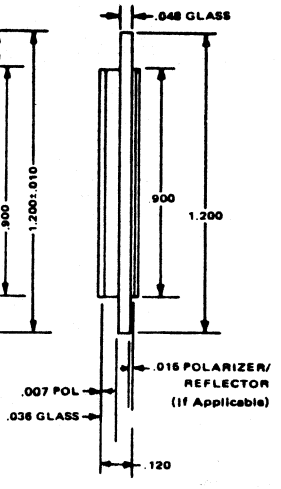
PY380



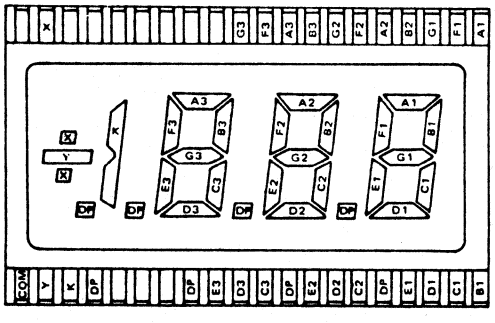


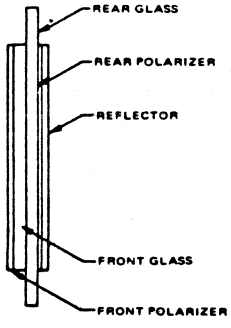
PY380





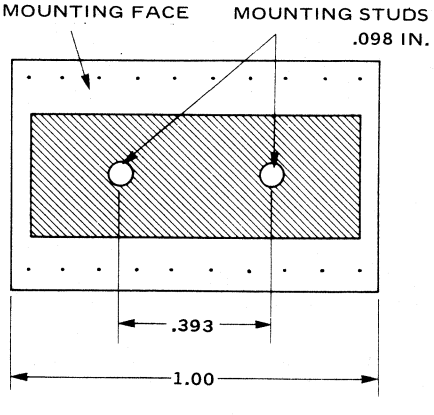
PY380a

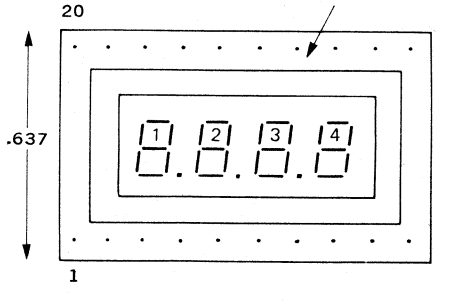




*"TW" Suffix designates displays with no rear reflector for backlighted application, white digits on black background Reflective versions are black digits on white.

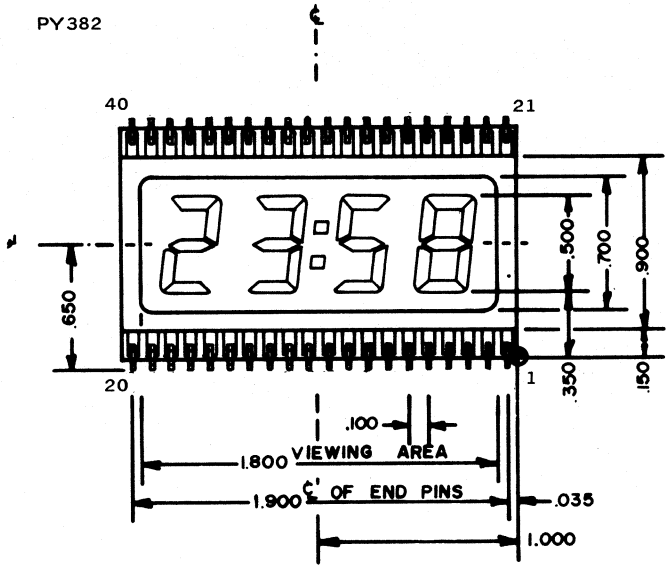
PY381

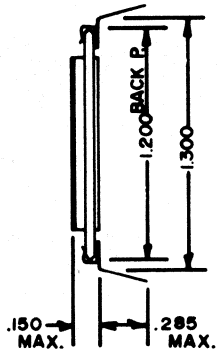




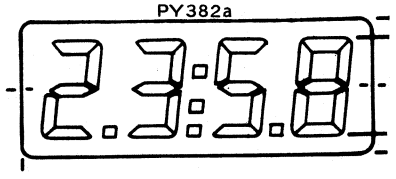
PY382

PY382

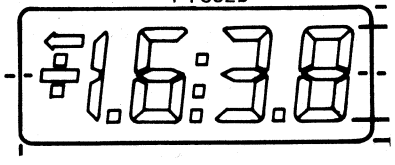




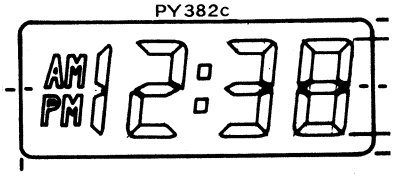
PY382a



PY382b

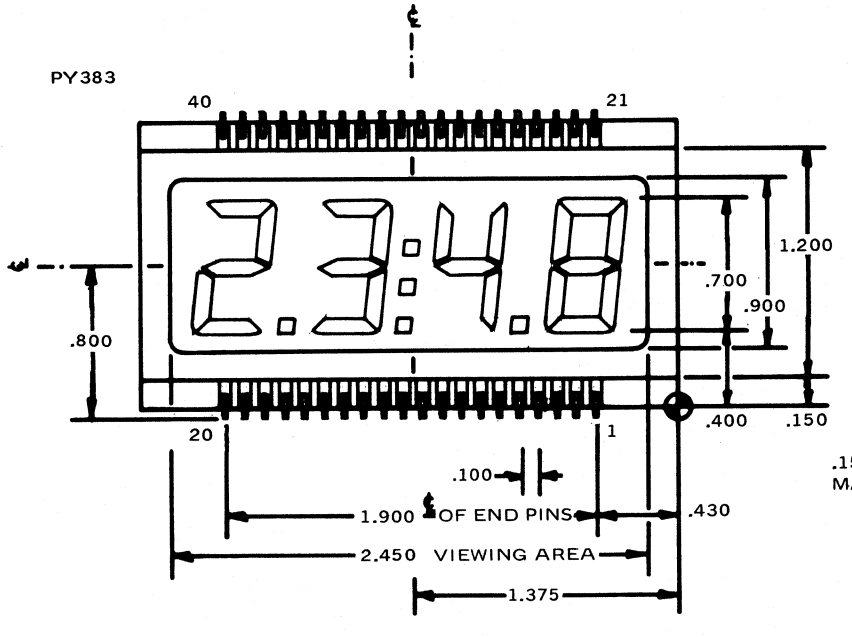


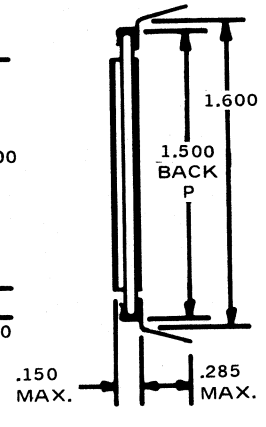
PY382c



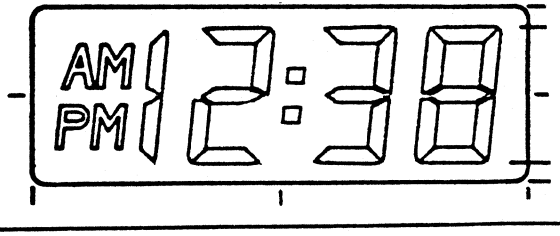
PY383

PY383

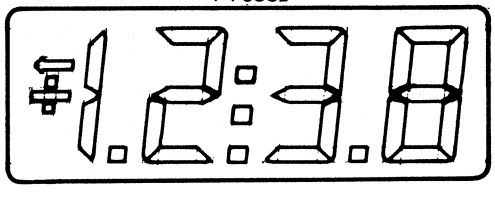




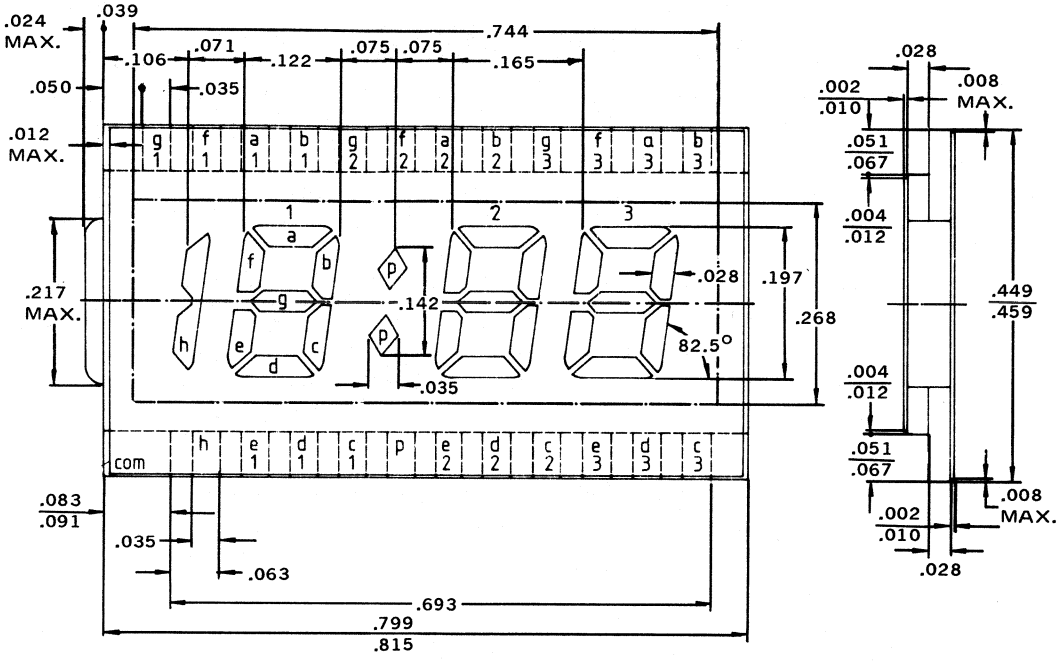
PY383a



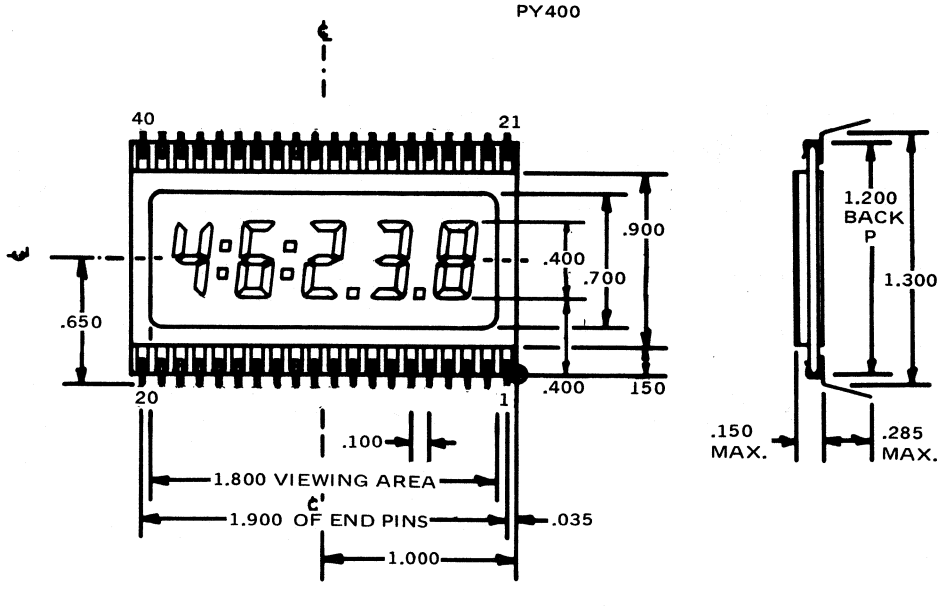
PY383b

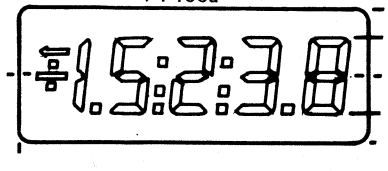


PY384


.024 MAX.
.039
.744
.106
.071
.122
.075
.075
.165
.050
.035
.012 MAX.
.217 MAX.
.142
.028
.197
.268
82.5°
.035
.083 .091
.063
.693
.799
.815
.028
.002 .010
.008 MAX.
.051 .067
.004 .012
.449 .459
com

PY400

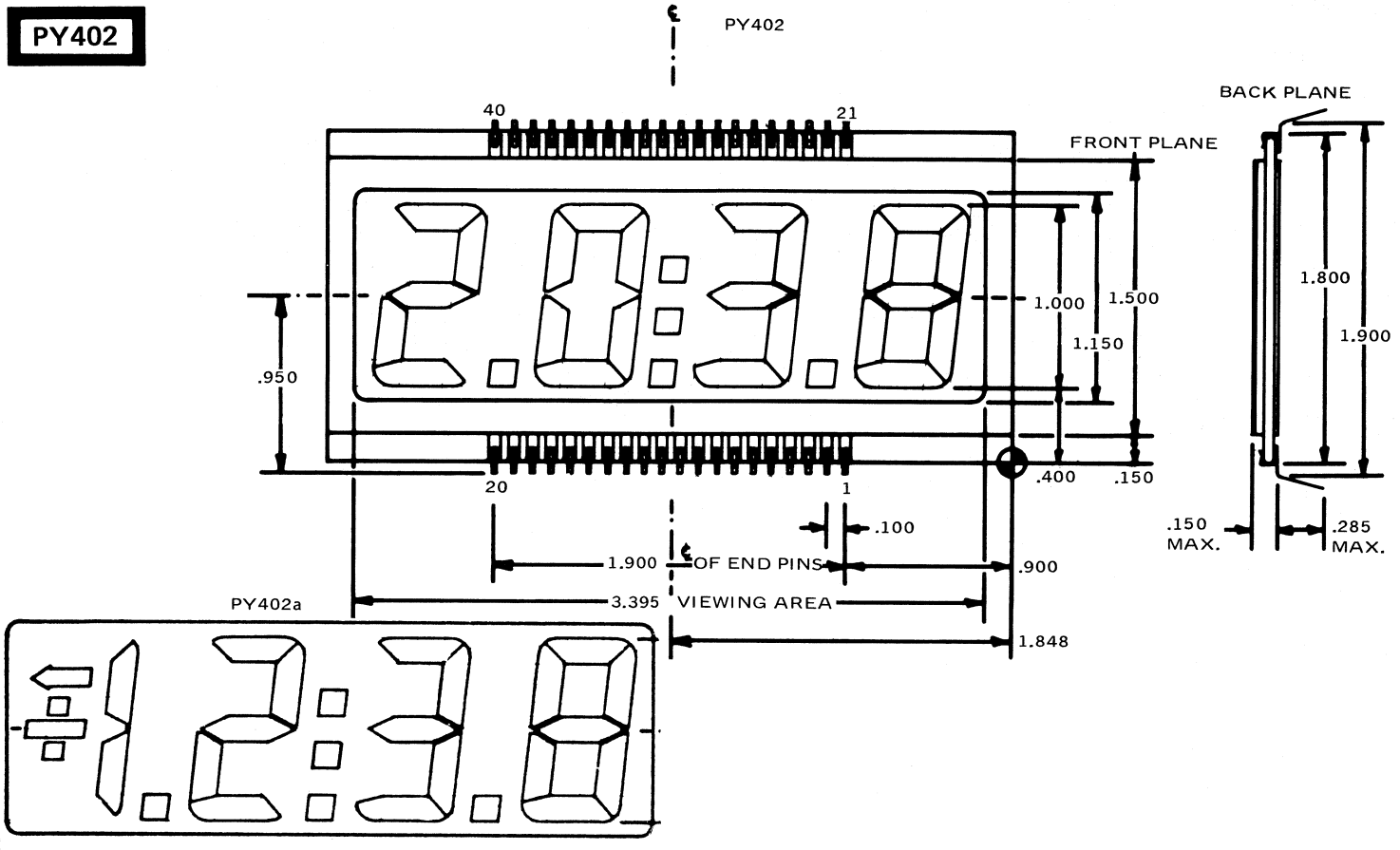

PY400
40
21
20
1
.650
.900
.400
.700
.400
150
.100
1.800 VIEWING AREA
1.900 OF END PINS
1.000
.035
1.200 BACK P
1.300
.150 MAX.
.285 MAX.


PY400a

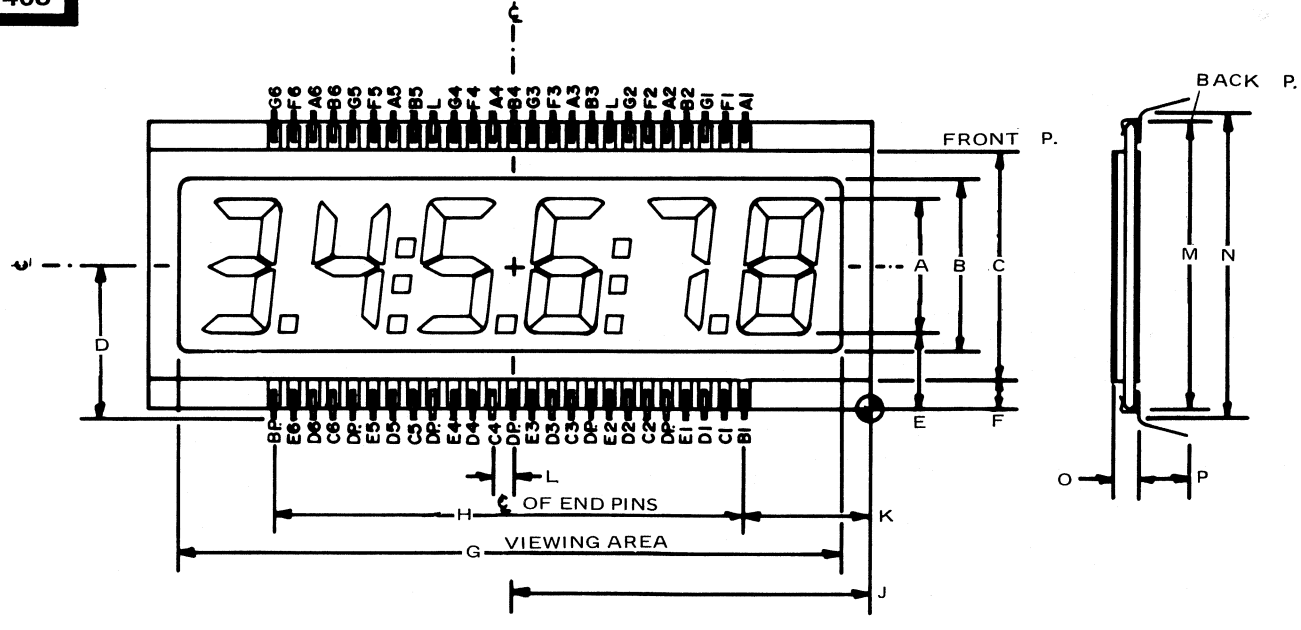
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY402

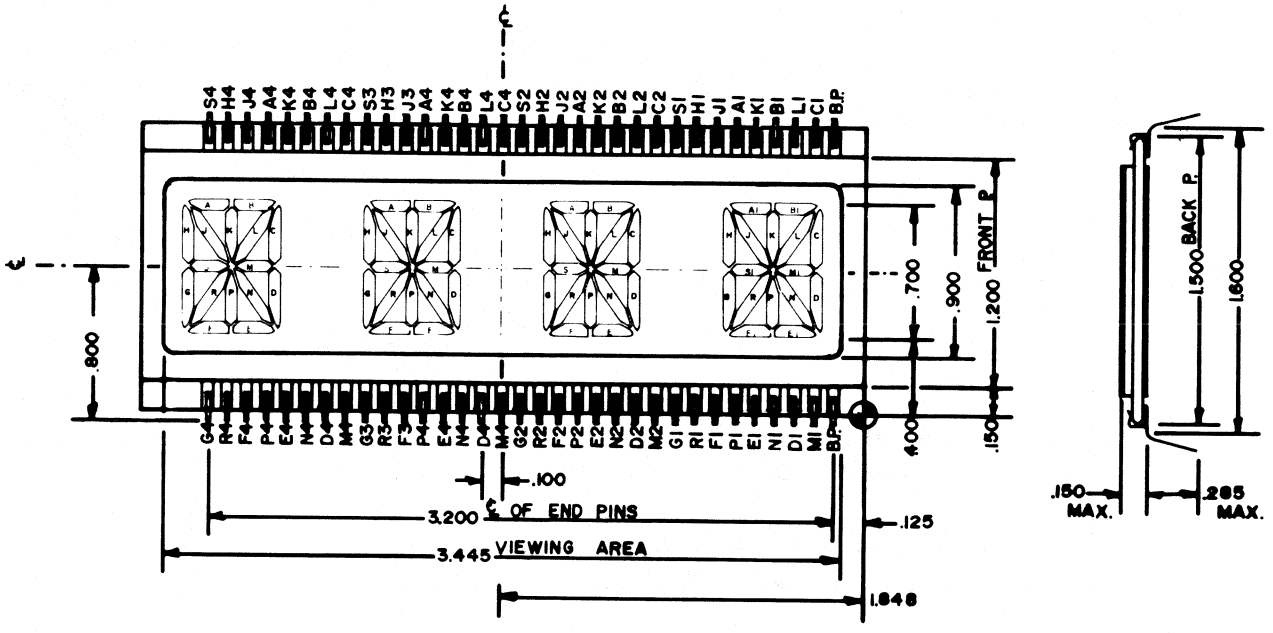


PY403

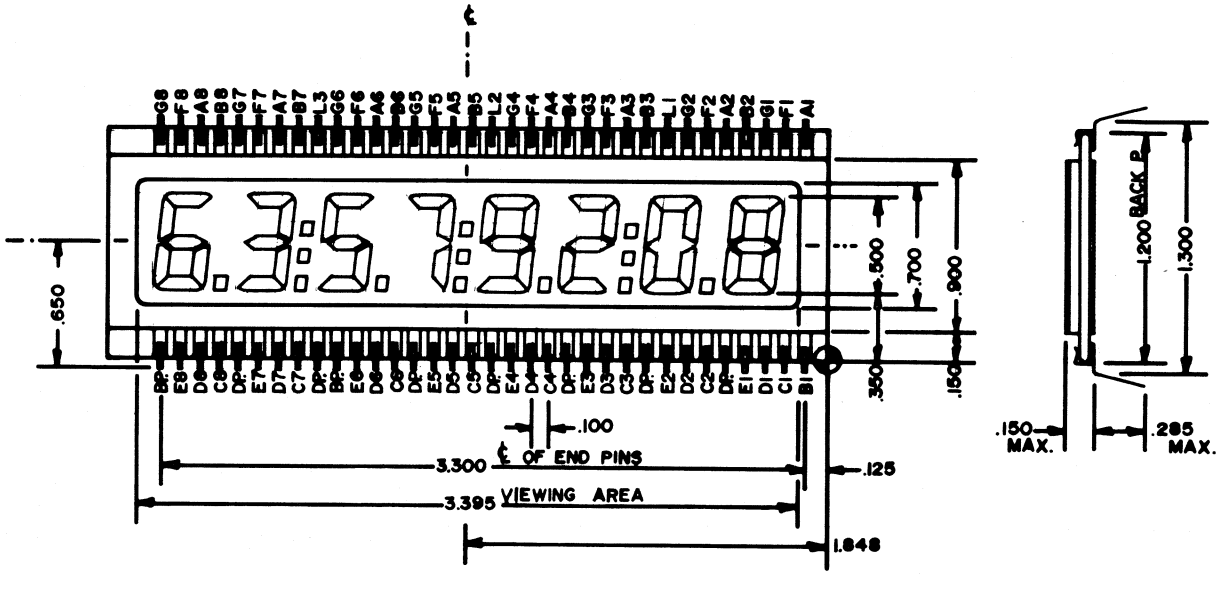


	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P
PY403	.700	.900	1.200	.800	.400	.150	3.395	2.400	1.848	.650	.100	1.500	1.600	.150	.285
PY403a	.500	.700	.900	.650	.350	.150	2.450	2.400	1.375	.125	.100	1.200	1.300	.150	.285

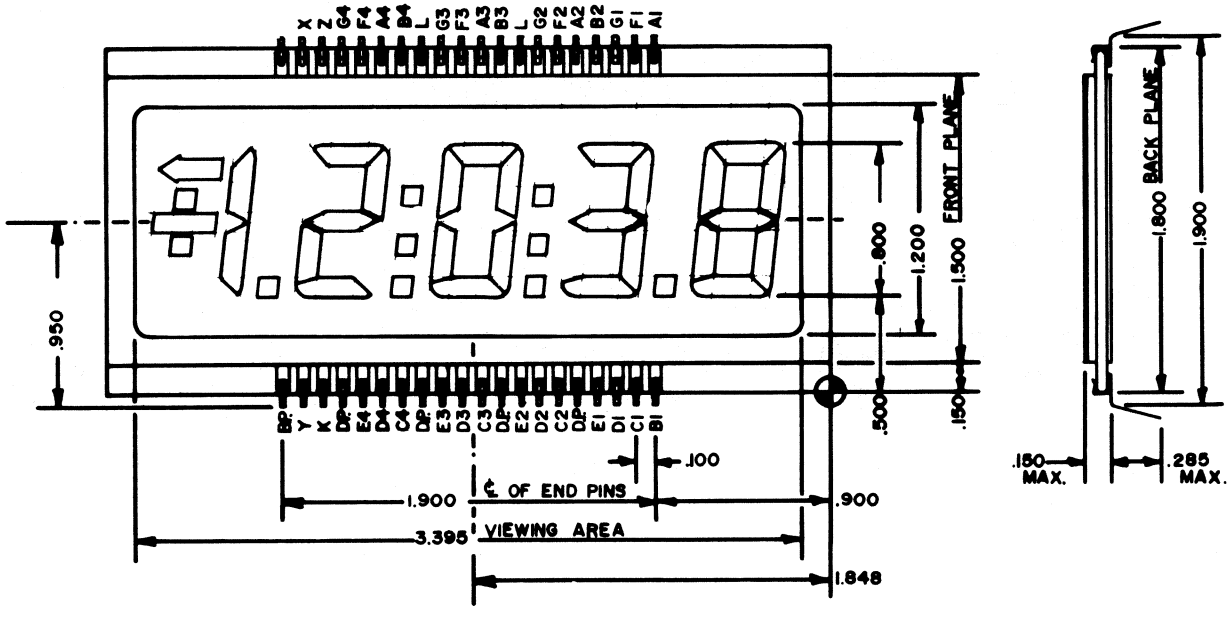
PY404


.800
.700
.900
1.200 FRONT P.
.400
.150
1.500 BACK P.
1.800
.150 MAX.
.285 MAX.
.100
3.200 ℄ OF END PINS
.125
3.445 VIEWING AREA
1.848

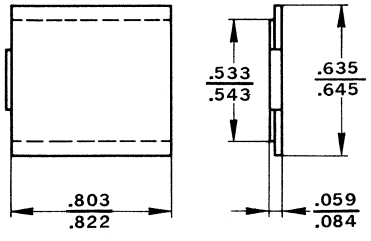
PY405


.650
.500
.700
.900
.350
.150
1.200 BACK P.
1.300
.150 MAX.
.285 MAX.
.100
3.300 ℄ OF END PINS
.125
3.395 VIEWING AREA
1.848

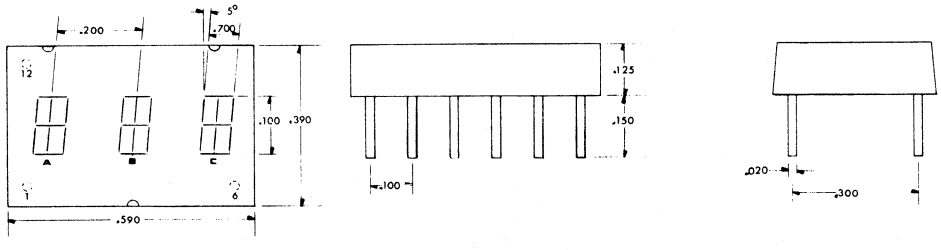
PY406



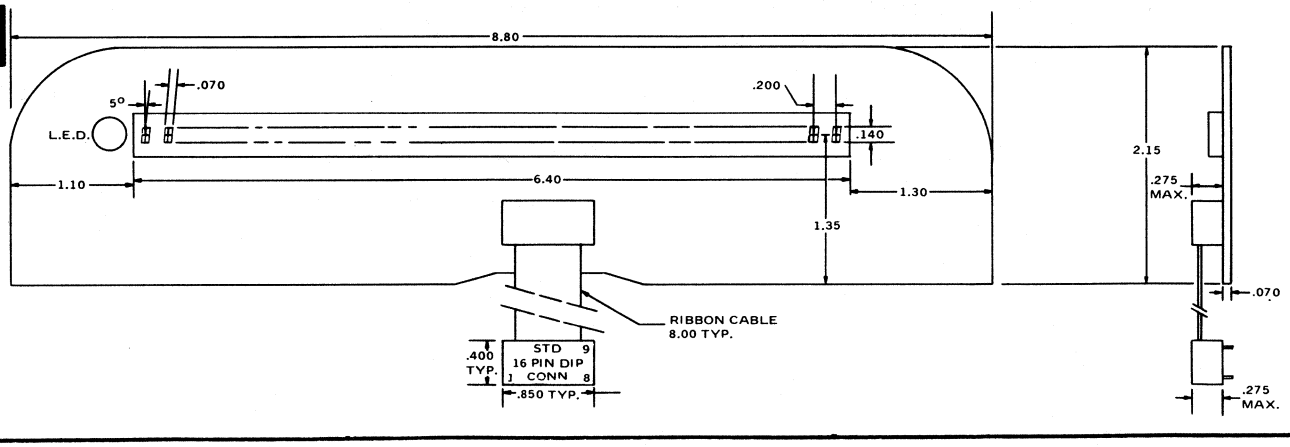
PY407



PY408



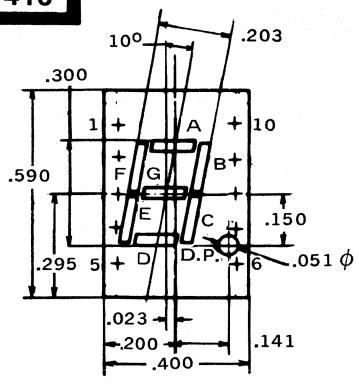
PY409

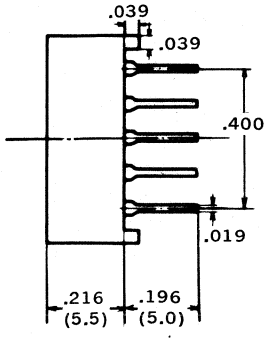


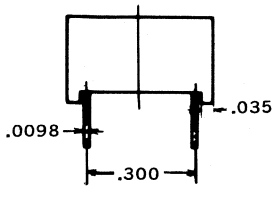
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

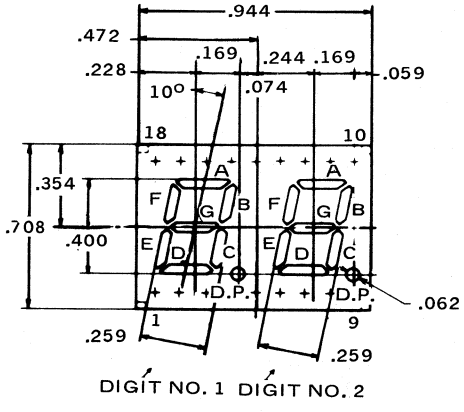
PY410

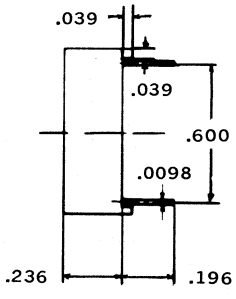


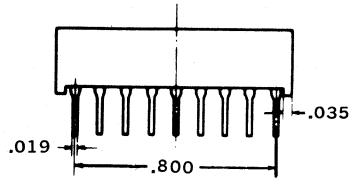




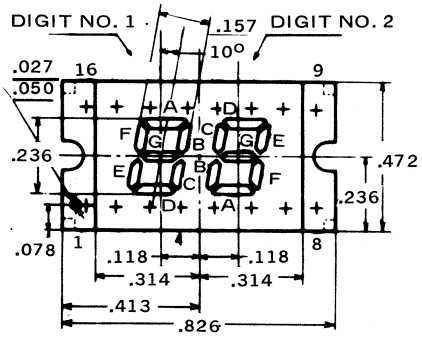
PY411

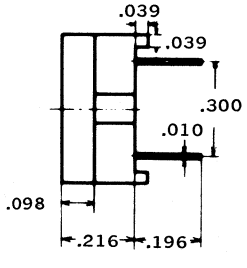


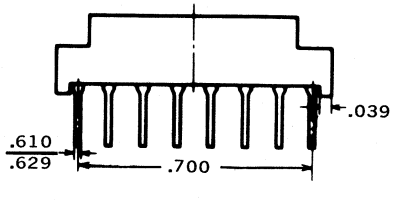




PY412



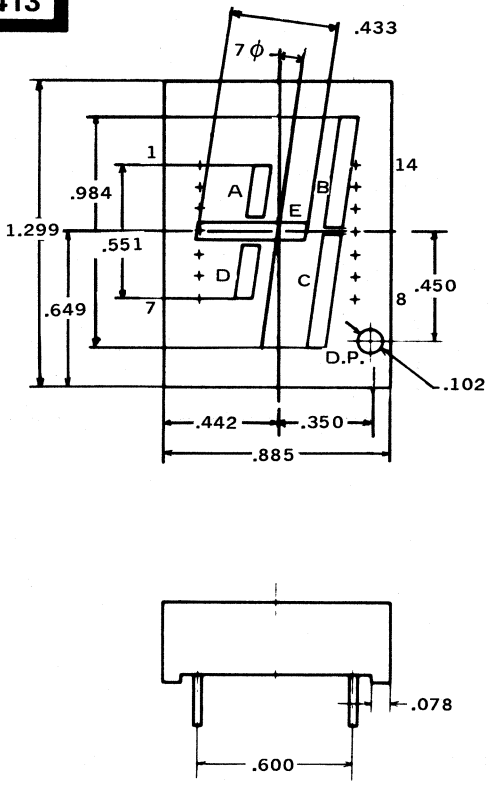




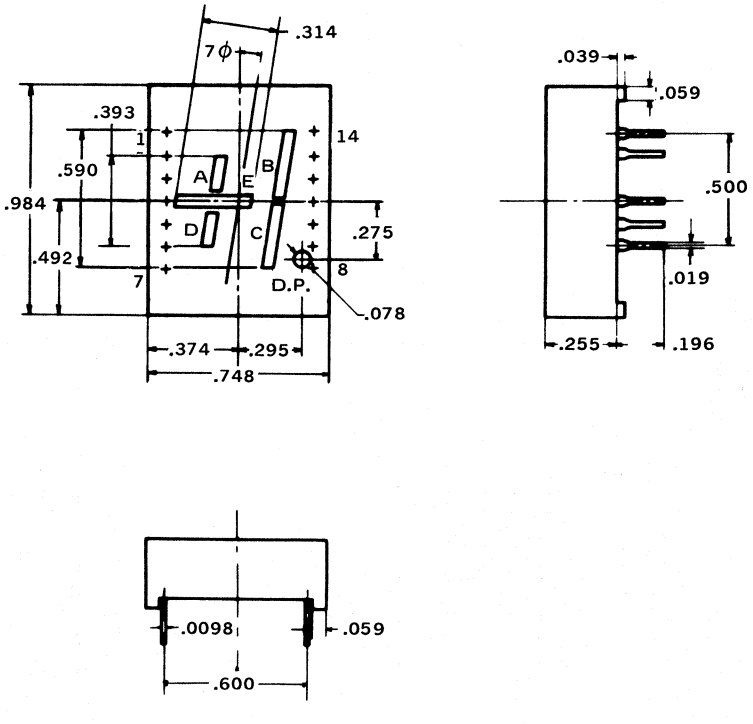
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

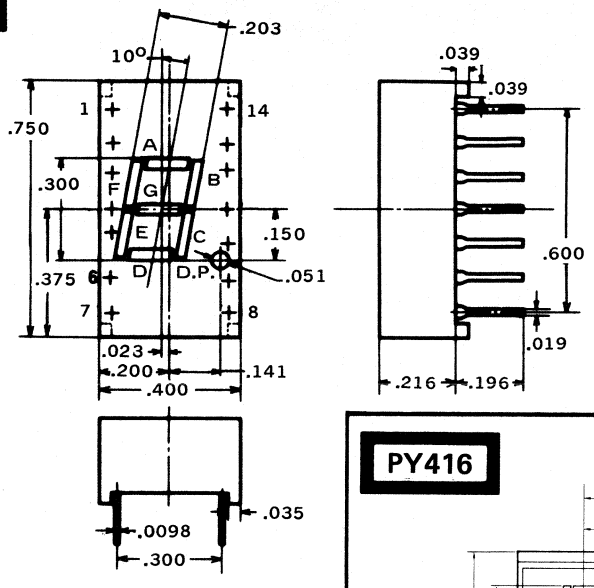
PY413



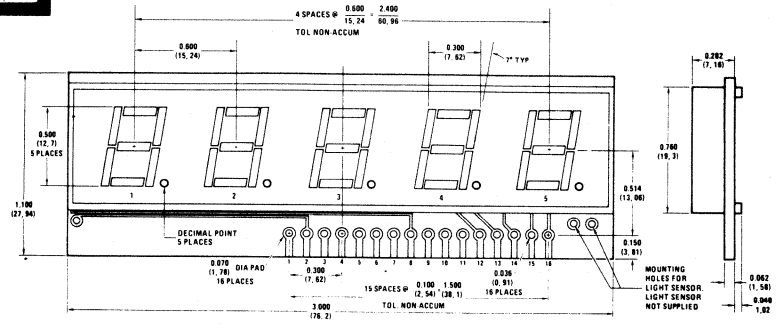
PY414



PY415

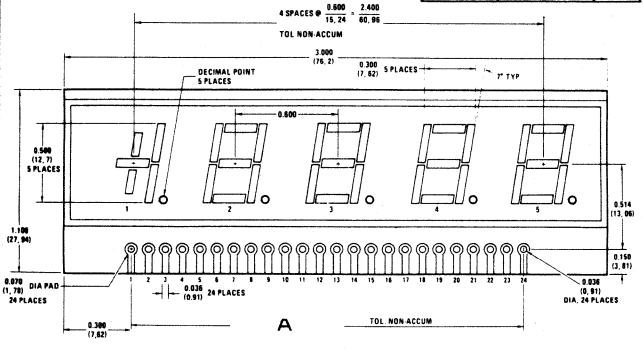


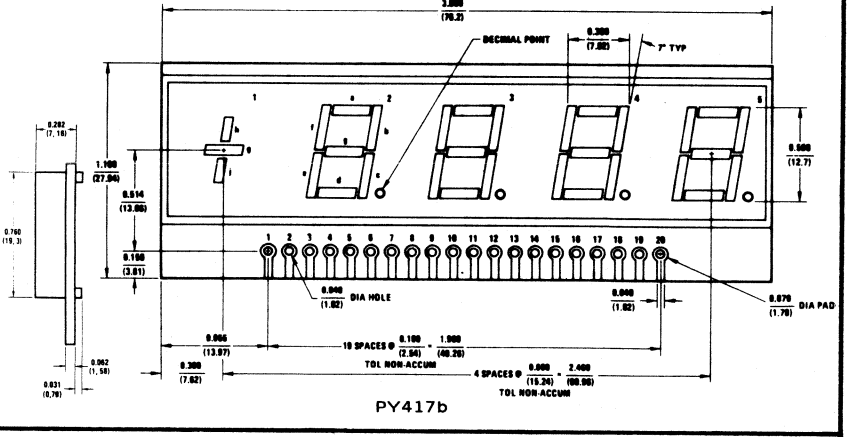
PY416



PY417

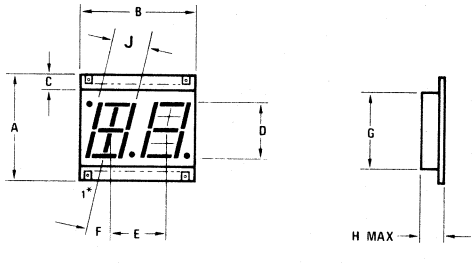
	A
PY417	23 Spaces .100
PY417a	15 Spaces .100





PY417b

PY418



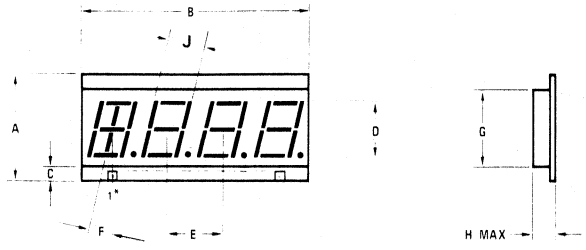
*Pin 1 as shown, pin out follows counterclockwise

	DIGIT SIZE	A	B	C	D	E	F	G	H	J
PY418	.300	.850	.800	.175	.300	.400	5°	.500	.225	.188
PY418a	.500	1.500	1.000	.175	.500	.500	10°	.700	.280	.300
PY418b	.700	1.250	1.200	.180	.700	.600	10°	.890	.300	.380

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

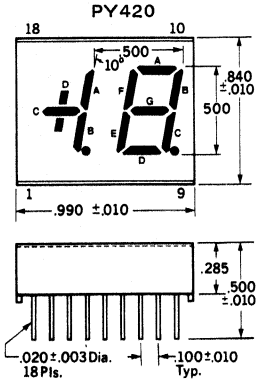
PY419



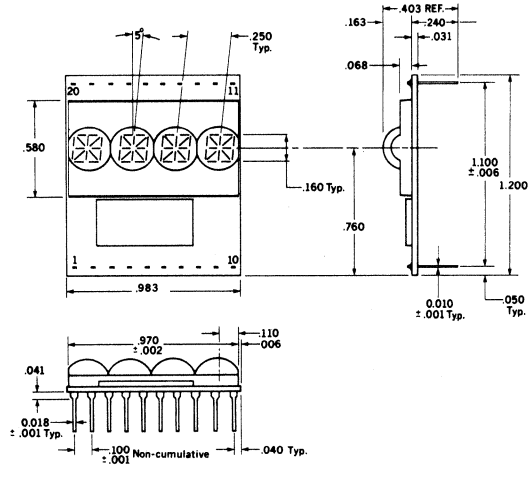
*Pin 1 as shown, pin out follows counterclockwise

	DIGIT SIZE	A	B	C	D	E	F	G	H	J
PY419	.300	.830	1.590	.165	.300	.400	5°	.500	.225	.188
PY419a	.500	1.000	1.990	.180	.500	.500	10°	.700	.280	.300
PY419b	.700	1.150	2.390	.180	.700	.600	10°	.890	.300	.380

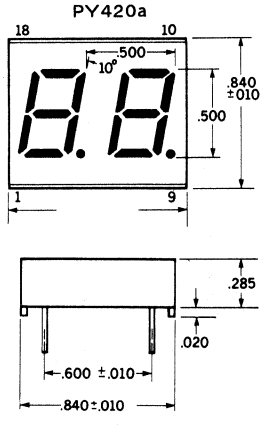
PY420



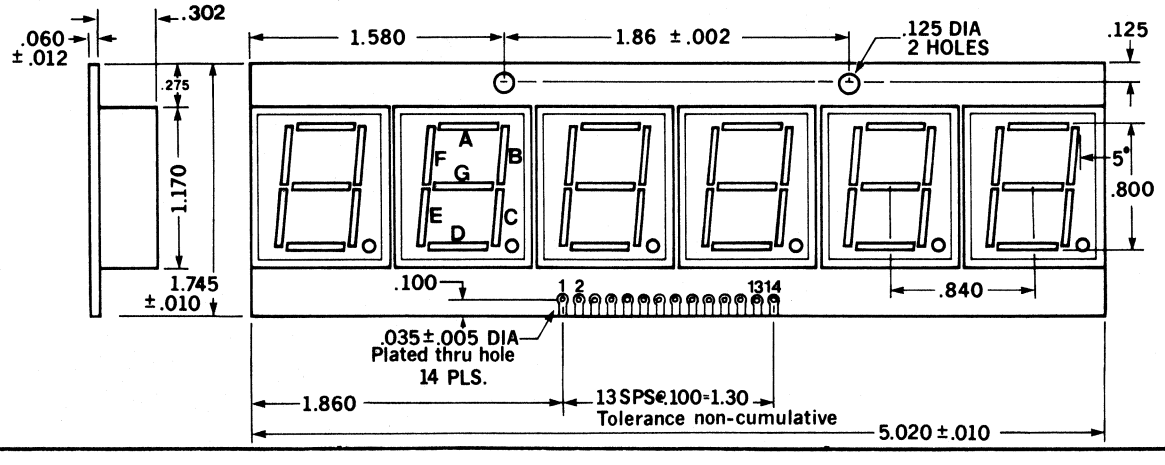
PY421



PY420a



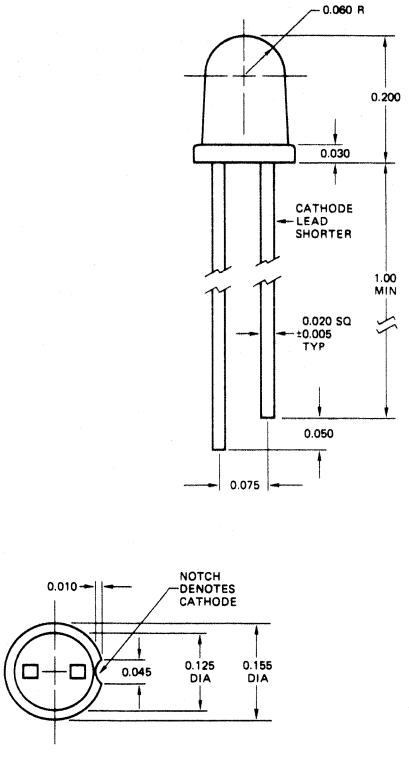
PY422



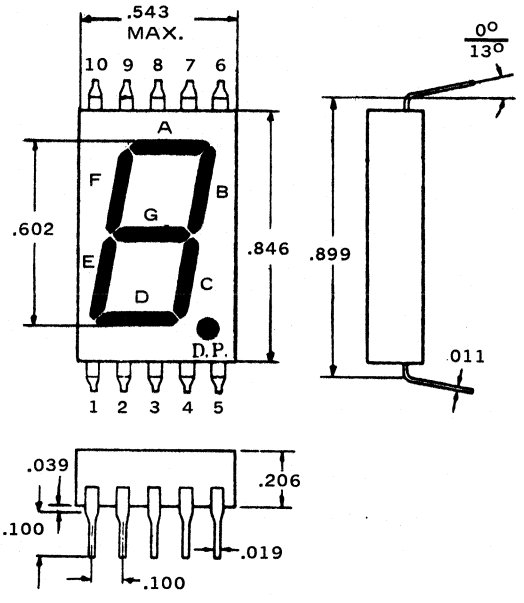
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

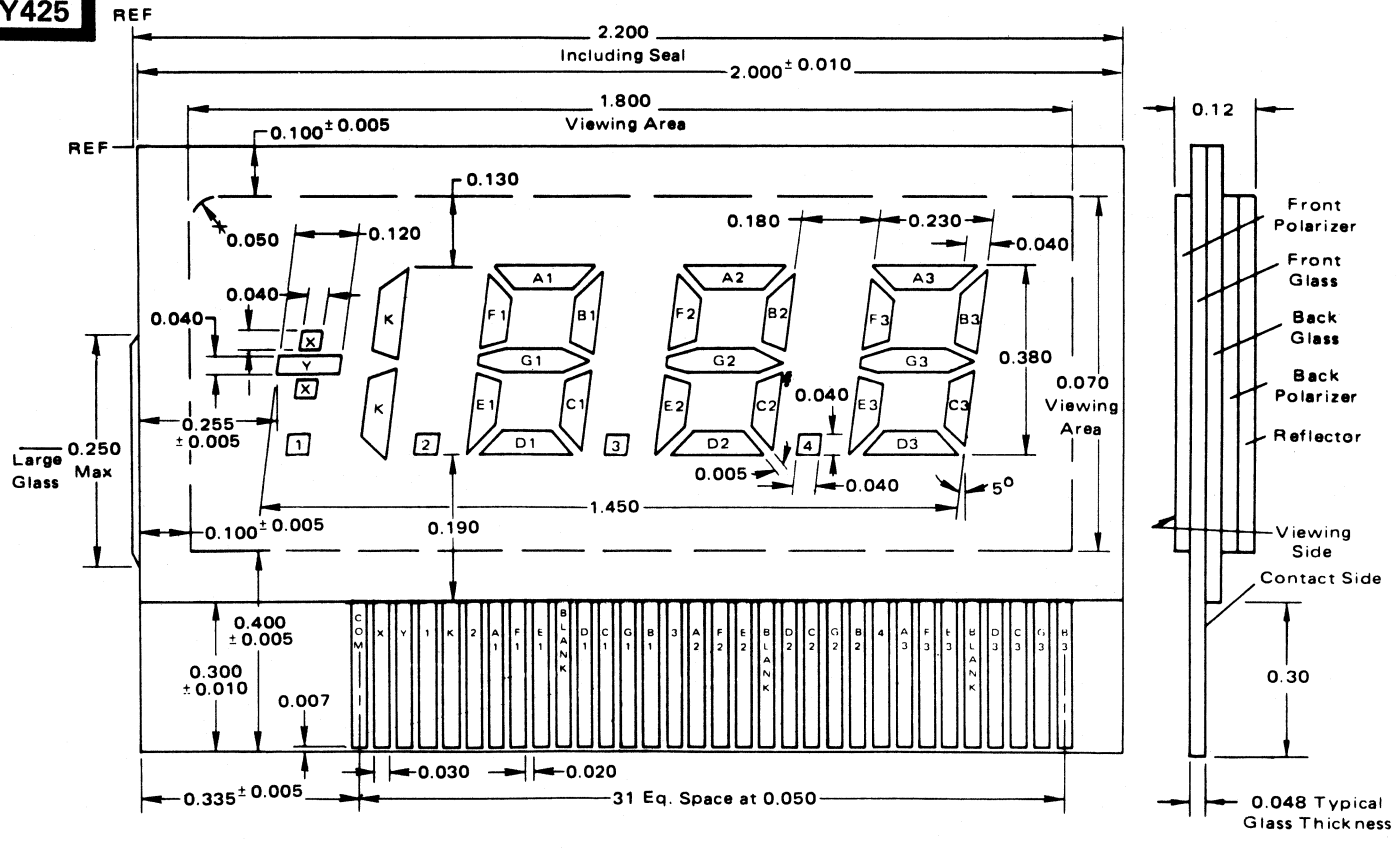
PY423



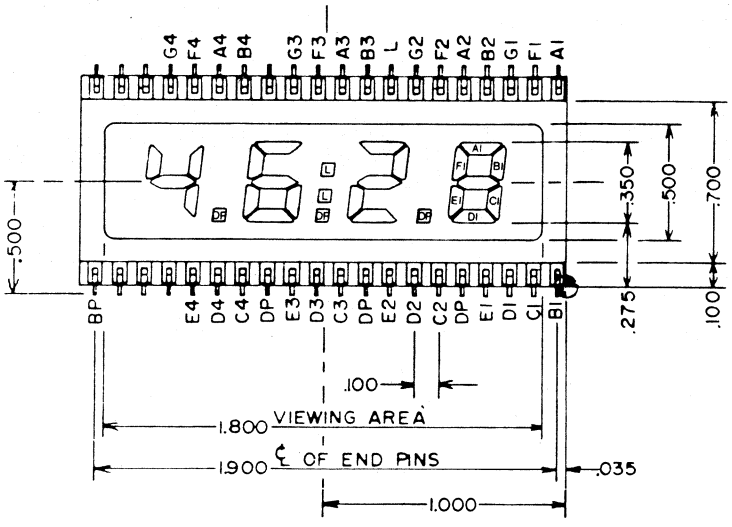
PY424

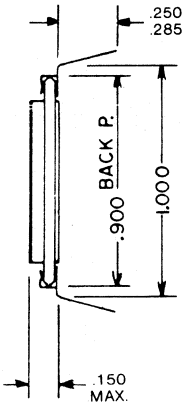


PY425

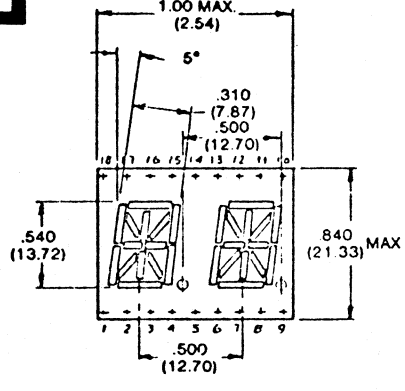


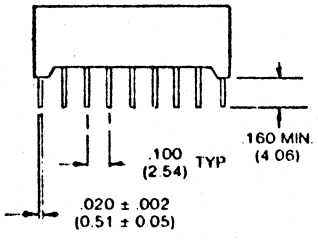
PY426

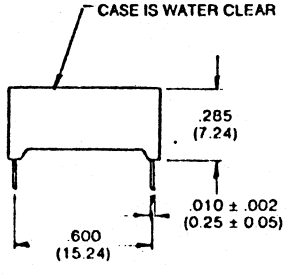

G4 F4 A4 B4 G3 F3 A3 B3 L G2 F2 A2 B2 G1 F1 A1
BP E4 D4 C4 DP E3 D3 C3 DP E2 D2 C2 DP E1 D1 C1 B1
.500
.350
.500
.700
.275
.100
.100
1.800 VIEWING AREA
1.900 ℄ OF END PINS
.035
1.000


.250
.285
.900 BACK P.
1.000
.150
MAX.

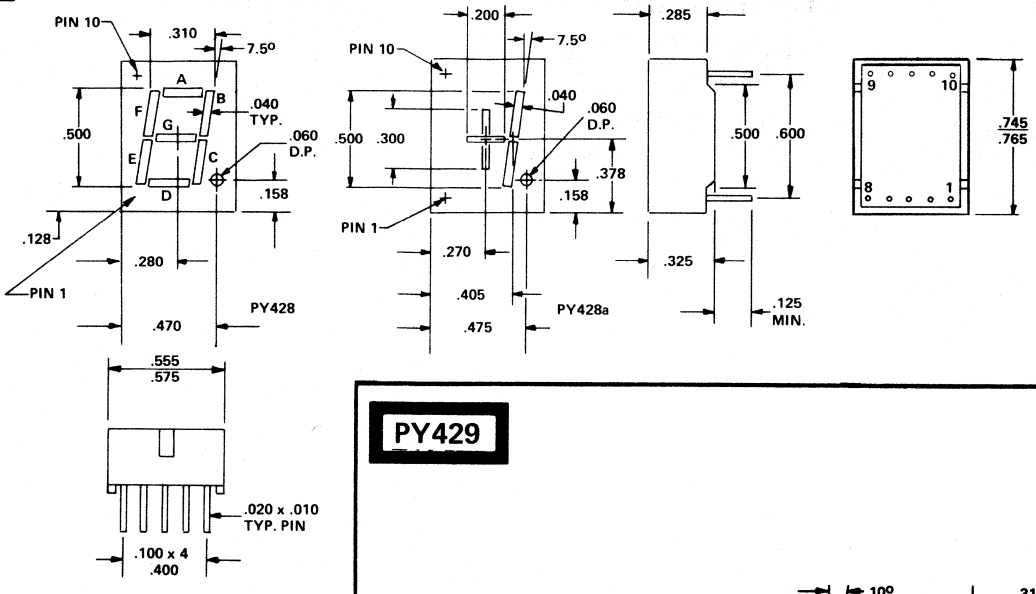
PY427


1.00 MAX.
(2.54)
5°
.310
(7.87)
.500
(12.70)
.540
(13.72)
.840
(21.33) MAX
.500
(12.70)

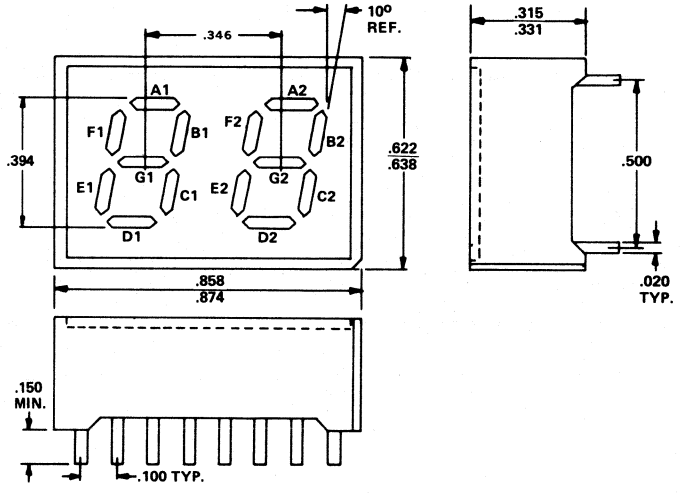

.100 TYP
(2.54)
.160 MIN.
(4.06)
.020 ± .002
(0.51 ± 0.05)


CASE IS WATER CLEAR
.285
(7.24)
.010 ± .002
(0.25 ± 0.05)
.600
(15.24)

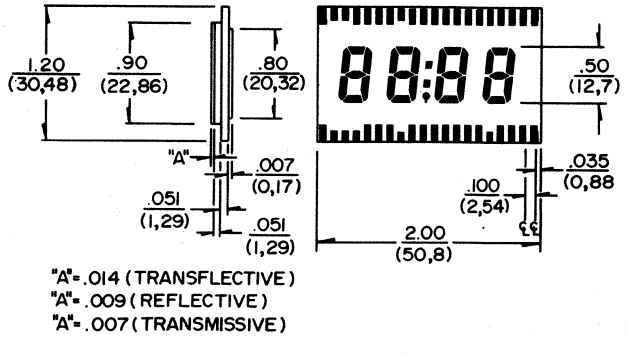
PY428



PY429

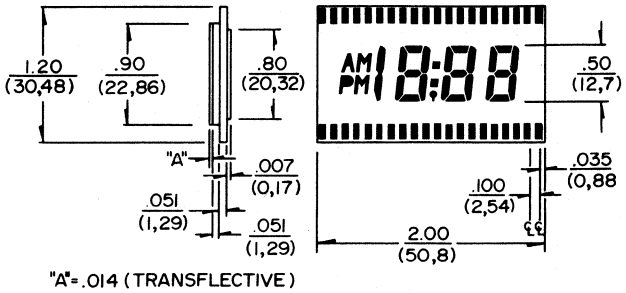


PY430



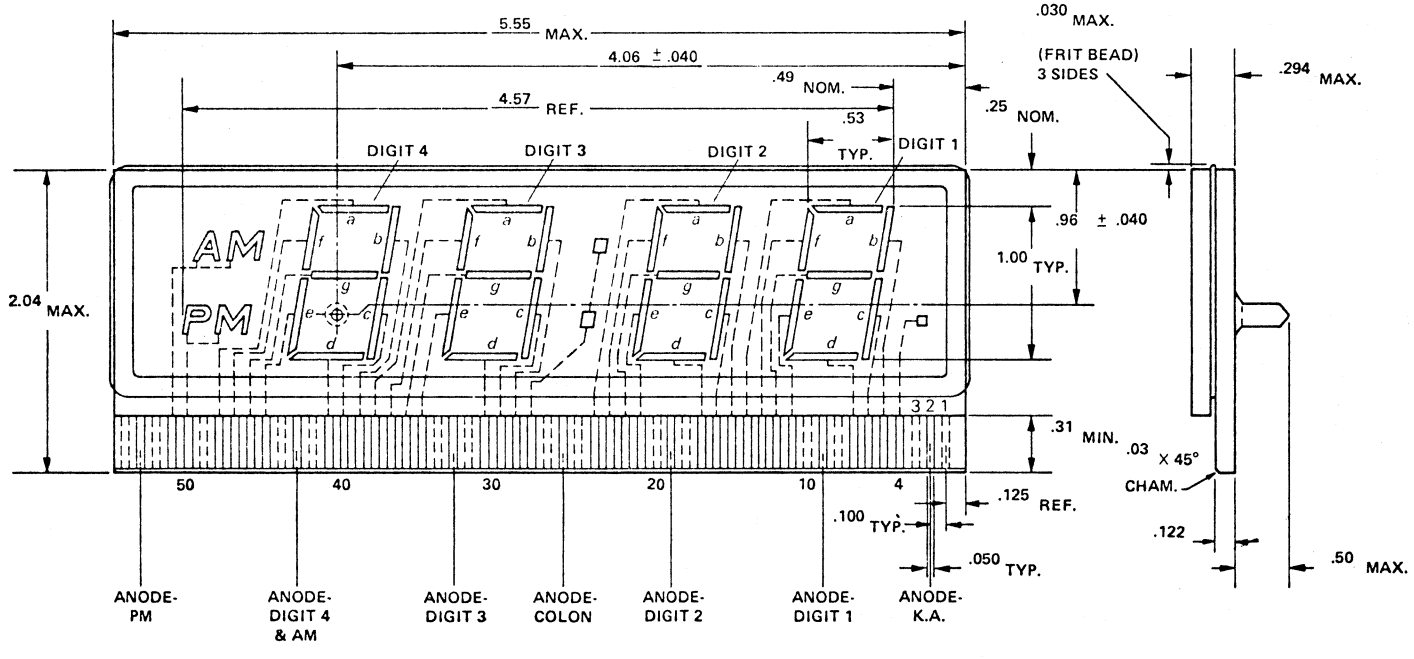
"A"=.014 (TRANSFLECTIVE)
"A"=.009 (REFLECTIVE)
"A"=.007 (TRANSMISSIVE)

PY431

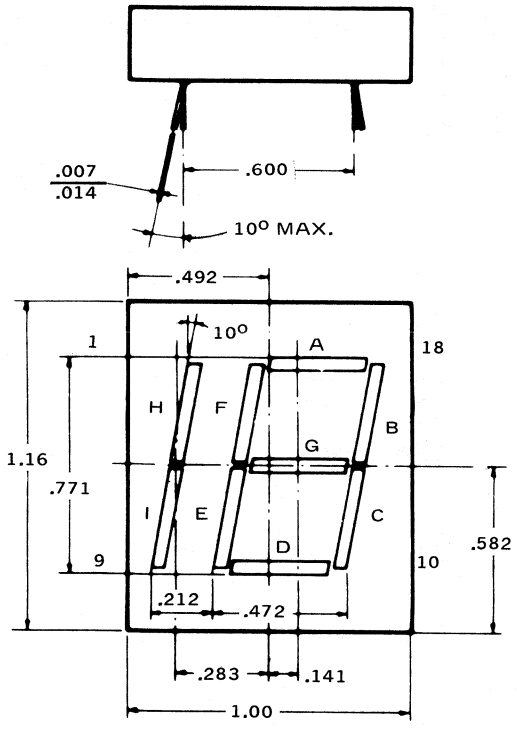


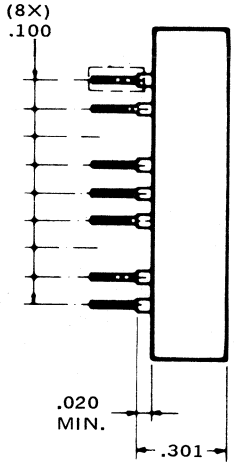
"A"= .014 (TRANSFLECTIVE)
"A"= .009 (REFLECTIVE)
"A"= .007 (TRANSMISSIVE)

PY432

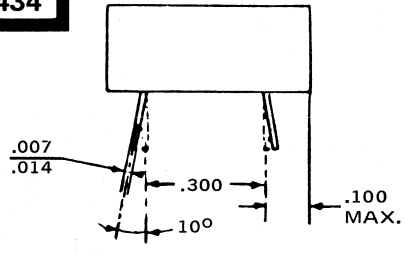


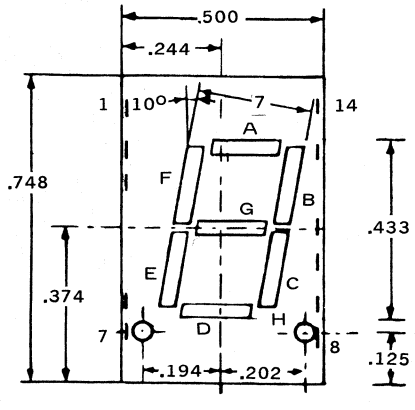
PY433

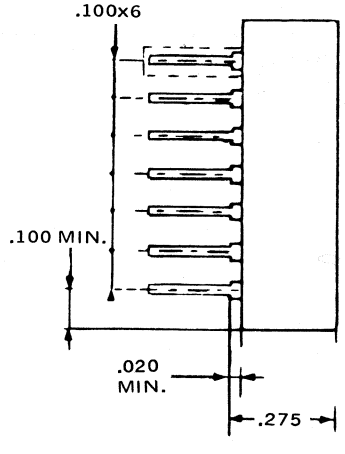

.007
.014
.600
10° MAX.
.492
10°
1
18
A
H
F
B
G
1.16
.771
I
E
C
D
.582
9
10
.212
.472
.283
.141
1.00


(8X)
.100
.020
MIN.
.301

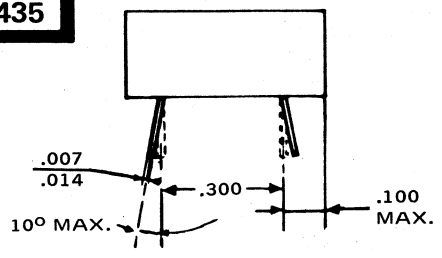
PY434

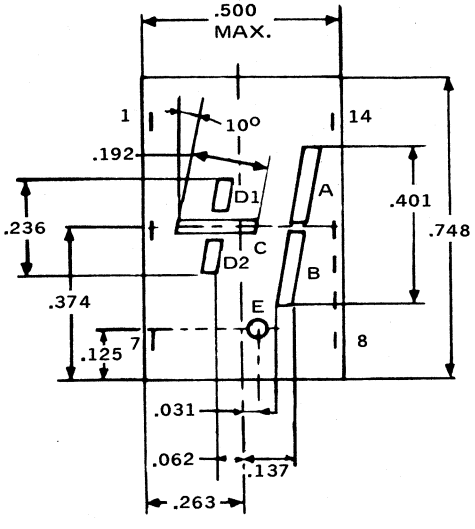

.007
.014
.300
.100
MAX.
10°

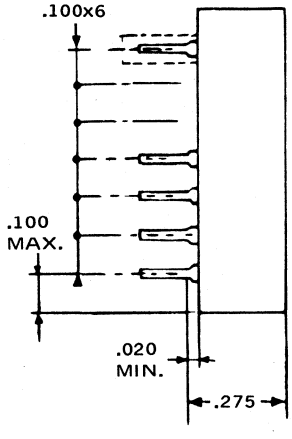

.500
.244
1
10°
7
14
A
.748
F
G
B
.433
E
C
.374
7
D
H
8
.125
.194
.202


.100x6
.100 MIN.
.020
MIN.
.275

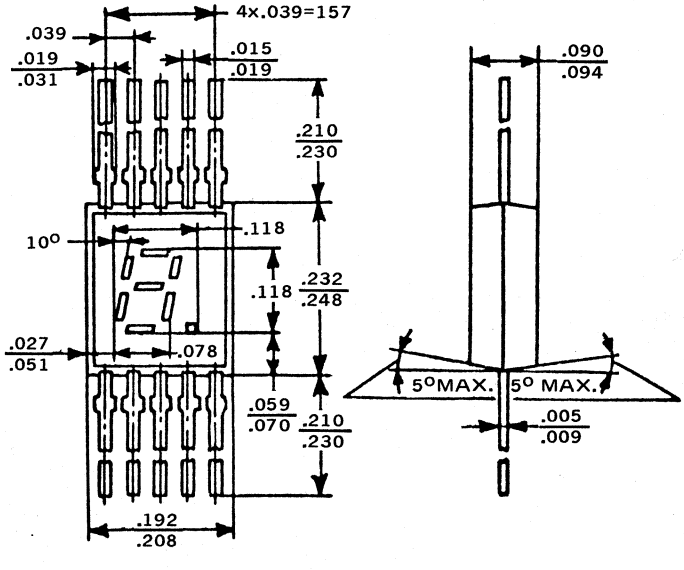
PY435


.007
.014
.300
.100
MAX.
10° MAX.

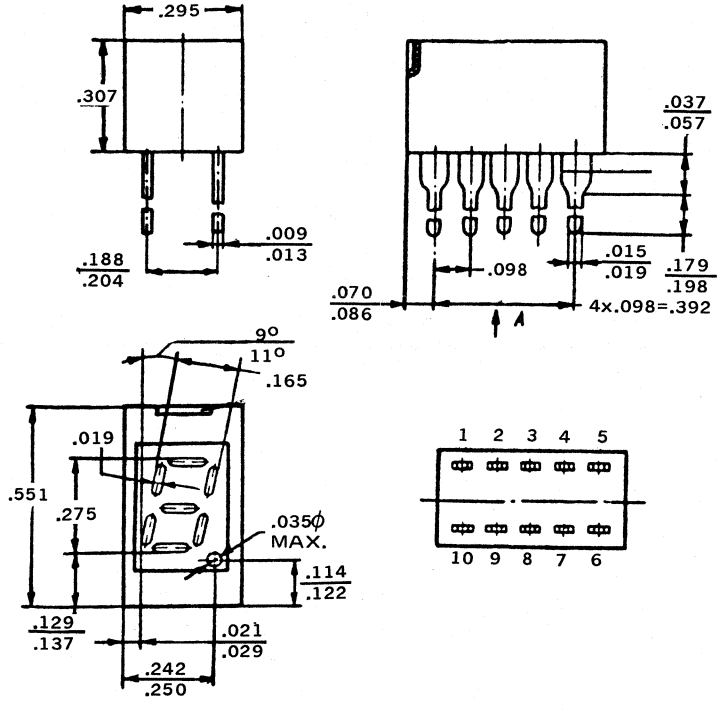

.500
MAX.
1
10°
14
.192
D1
A
.401
.748
.236
C
D2
B
.374
E
.125
7
8
.031
.062
.137
.263


.100x6
.100
MAX.
.020
MIN.
.275

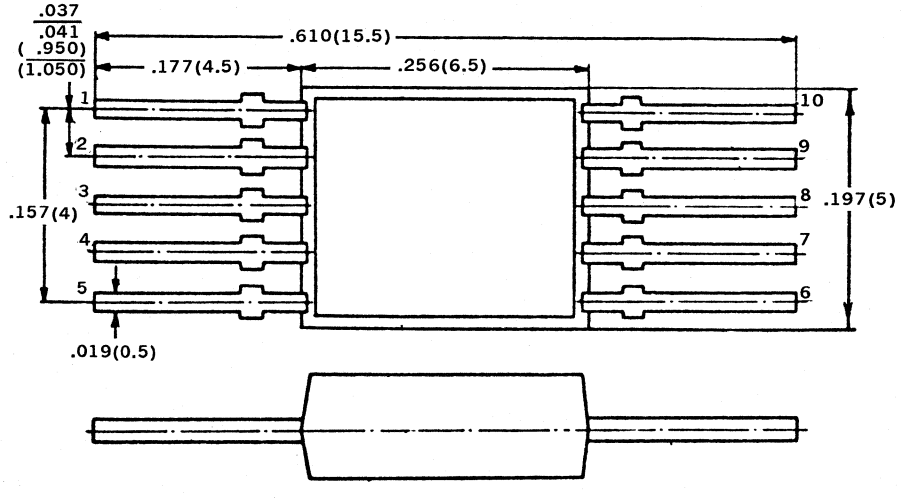
PY436


4x.039=157
.039
.019
.031
.015
.019
.210
.230
10°
.118
.118
.232
.248
.027
.051
.078
.059
.070
.210
.230
.192
.208
.090
.094
5°MAX.
5° MAX.
.005
.009

PY437


.295
.307
.009
.013
.188
.204
.037
.057
.015
.019
.179
.198
.098
.070
.086
4x.098=.392
A
9°
11°
.165
.019
.551
.275
.035ϕ
MAX.
.114
.122
.129
.137
.021
.029
.242
.250
1 2 3 4 5
10 9 8 7 6

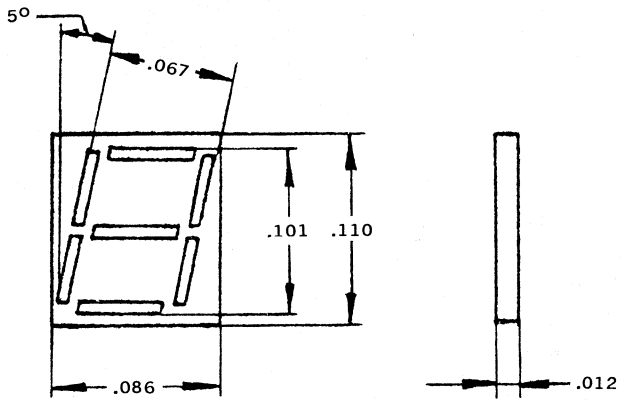
PY438


.037
.041
(.950)
(1.050)
.610(15.5)
.177(4.5)
.256(6.5)
1
2
3
4
5
10
9
8
7
6
.157(4)
.197(5)
.019(0.5)

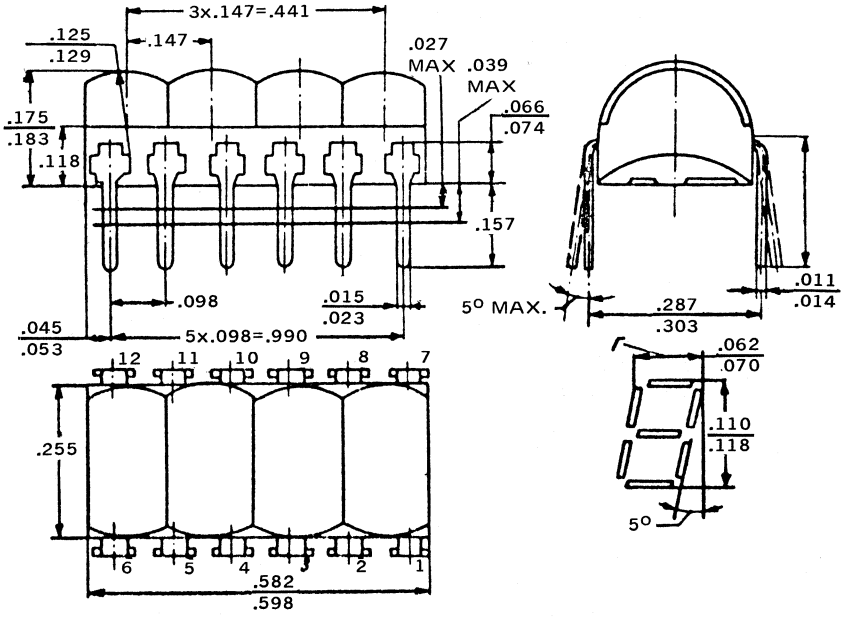
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

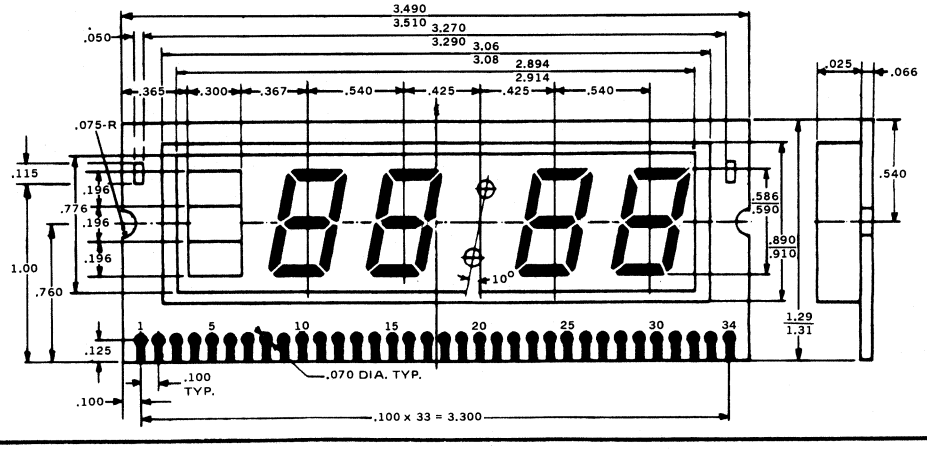
PY439



PY440



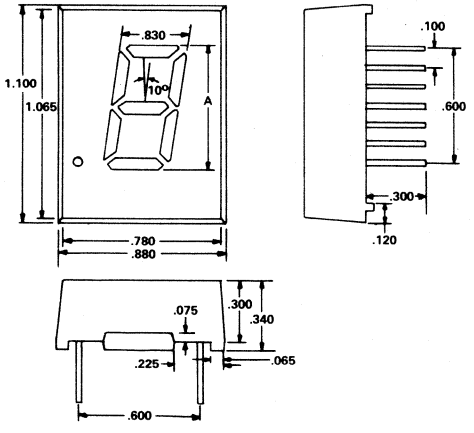
PY441



49. OUTLINE DRAWINGS

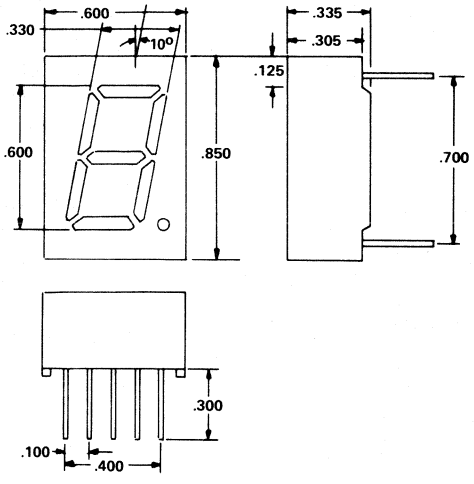
IN DRAWING NUMBER SEQUENCE

PY444

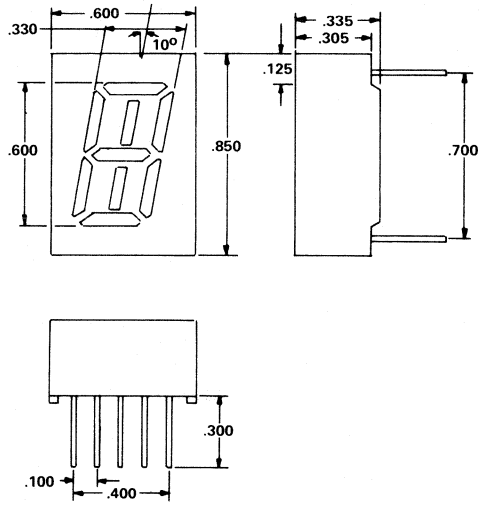


	A	DP
PY444	.630	Left
PY444a	.600	Left
PY444b	.600	Right

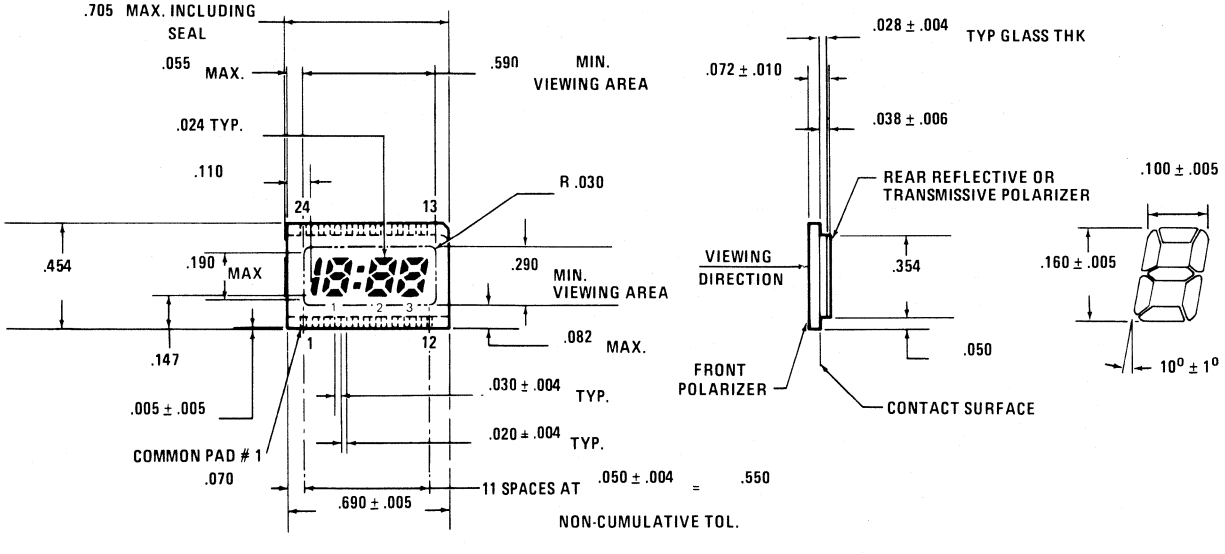
PY445



PY446



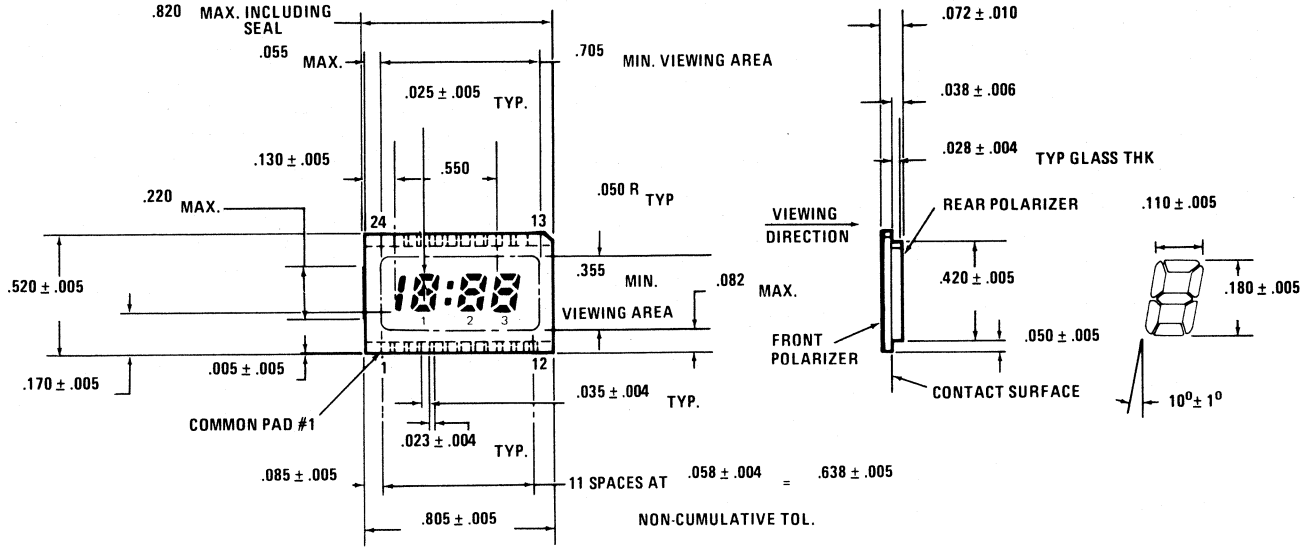
PY448



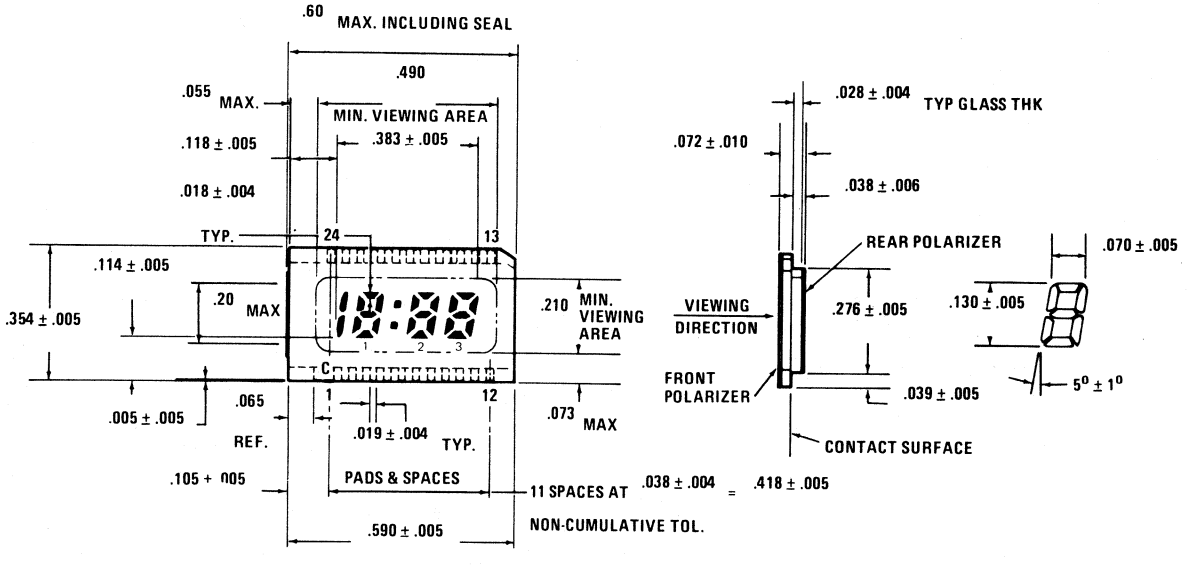
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

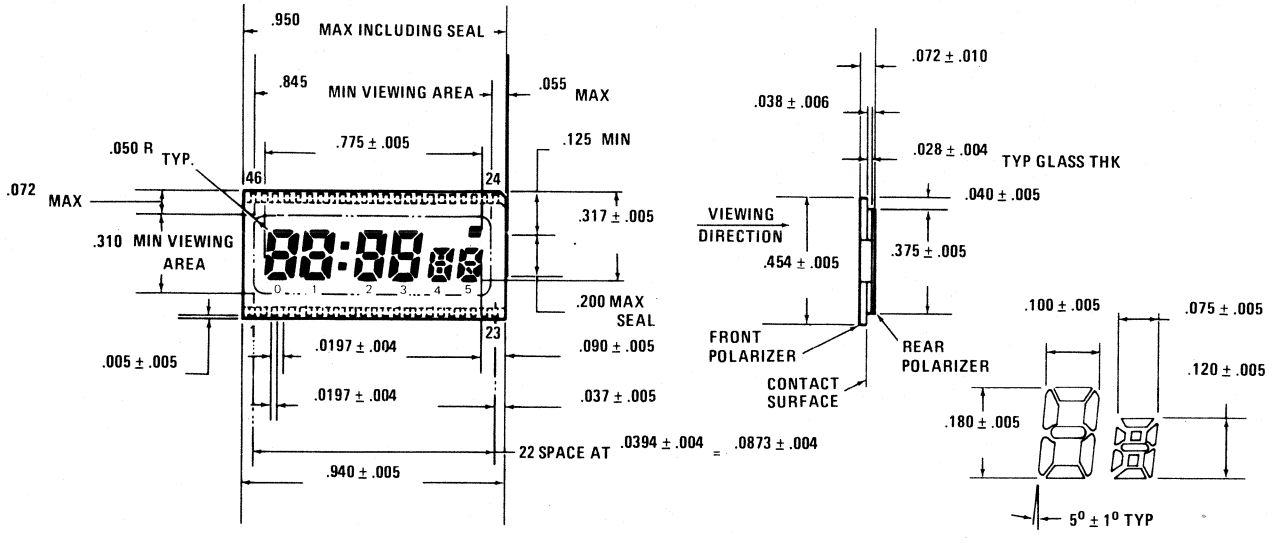
PY449



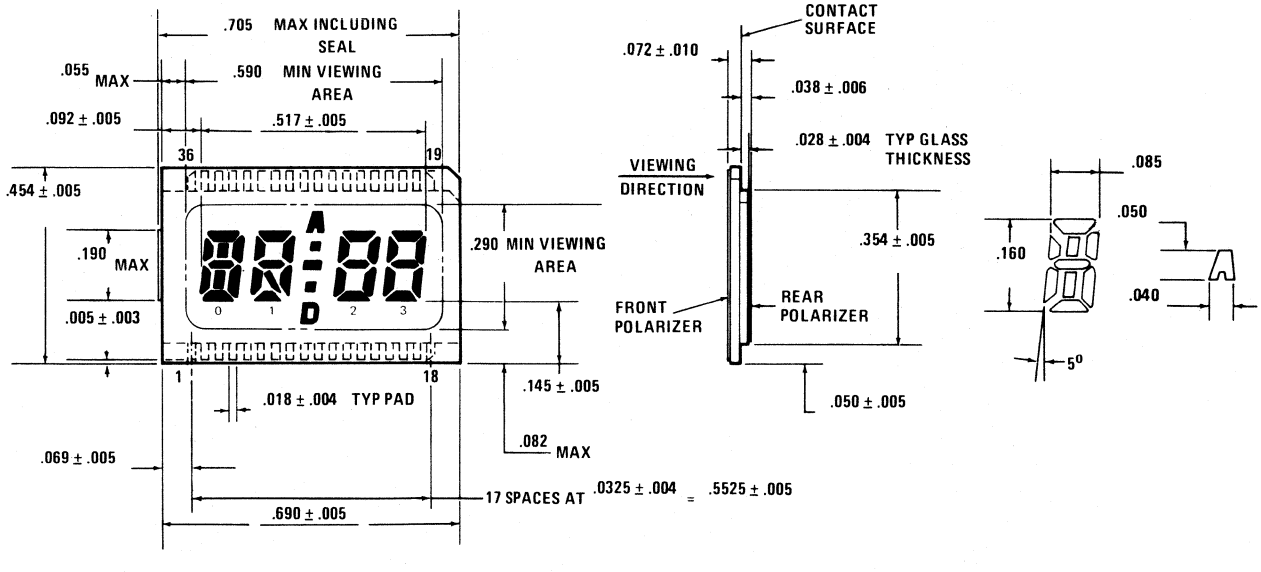
PY450



PY451


.950 MAX INCLUDING SEAL
.845 MIN VIEWING AREA
.055 MAX
.775 ± .005
.125 MIN
.050 R TYP.
.072 MAX
.310 MIN VIEWING AREA
46
24
1
23
.317 ± .005
.200 MAX SEAL
.005 ± .005
.0197 ± .004
.090 ± .005
.0197 ± .004
.037 ± .005
22 SPACE AT .0394 ± .004 = .0873 ± .004
.940 ± .005
.072 ± .010
.038 ± .006
.028 ± .004 TYP GLASS THK
.040 ± .005
VIEWING DIRECTION
.454 ± .005
.375 ± .005
FRONT POLARIZER
REAR POLARIZER
CONTACT SURFACE
.100 ± .005
.075 ± .005
.120 ± .005
.180 ± .005
5° ± 1° TYP

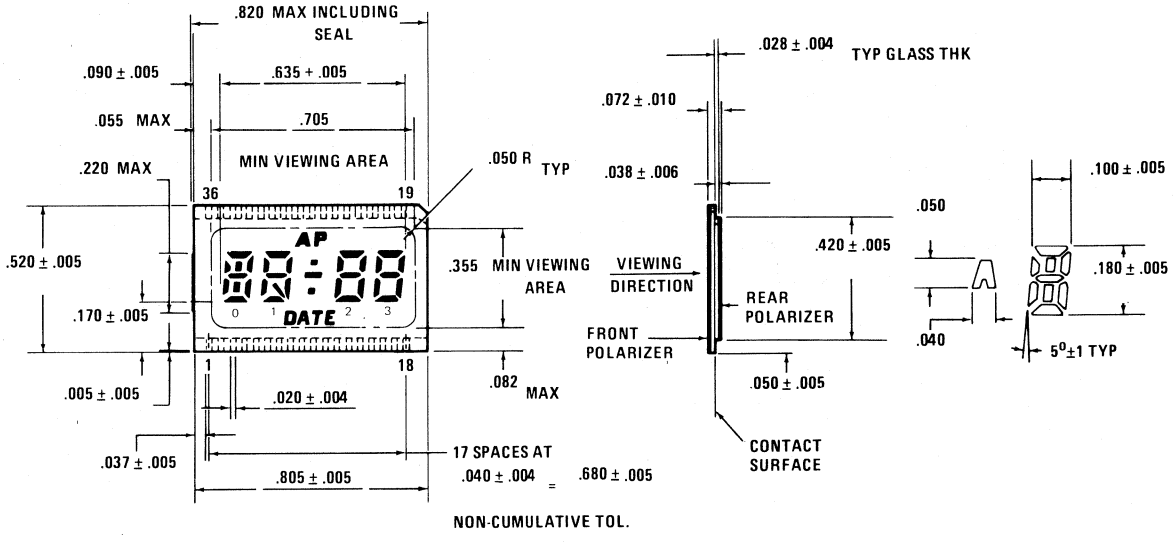
PY452


.705 MAX INCLUDING SEAL
.055 MAX
.590 MIN VIEWING AREA
.092 ± .005
.517 ± .005
36
19
.454 ± .005
.190 MAX
.005 ± .003
.290 MIN VIEWING AREA
1
18
.018 ± .004 TYP PAD
.145 ± .005
.082 MAX
.069 ± .005
17 SPACES AT .0325 ± .004 = .5525 ± .005
.690 ± .005
CONTACT SURFACE
.072 ± .010
.038 ± .006
.028 ± .004 TYP GLASS THICKNESS
VIEWING DIRECTION
.354 ± .005
FRONT POLARIZER
REAR POLARIZER
.050 ± .005
.085
.050
.160
.040
5°

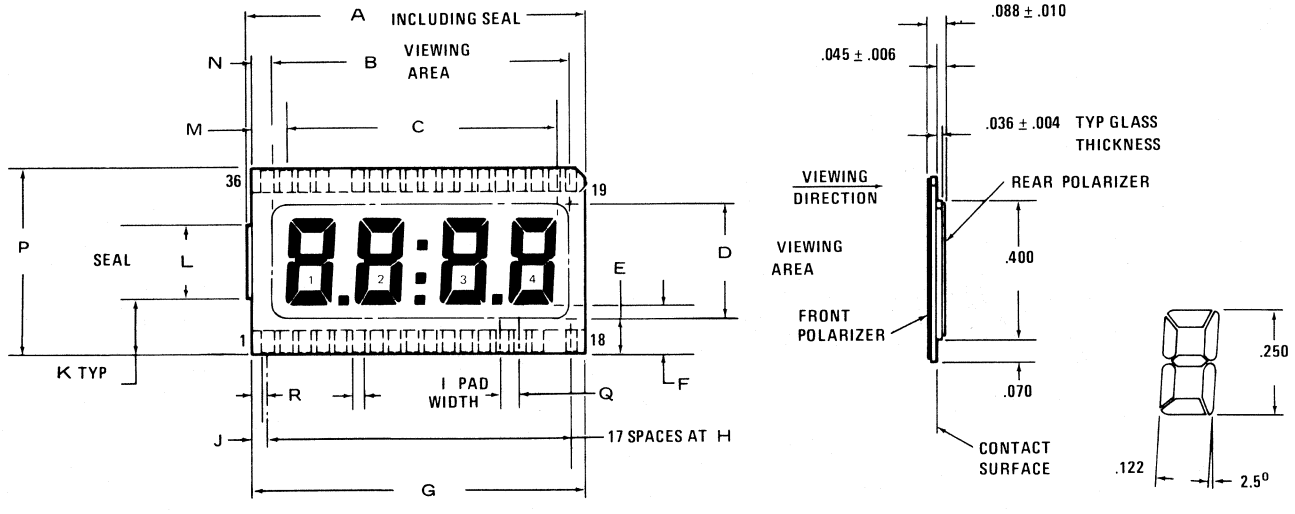
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY453

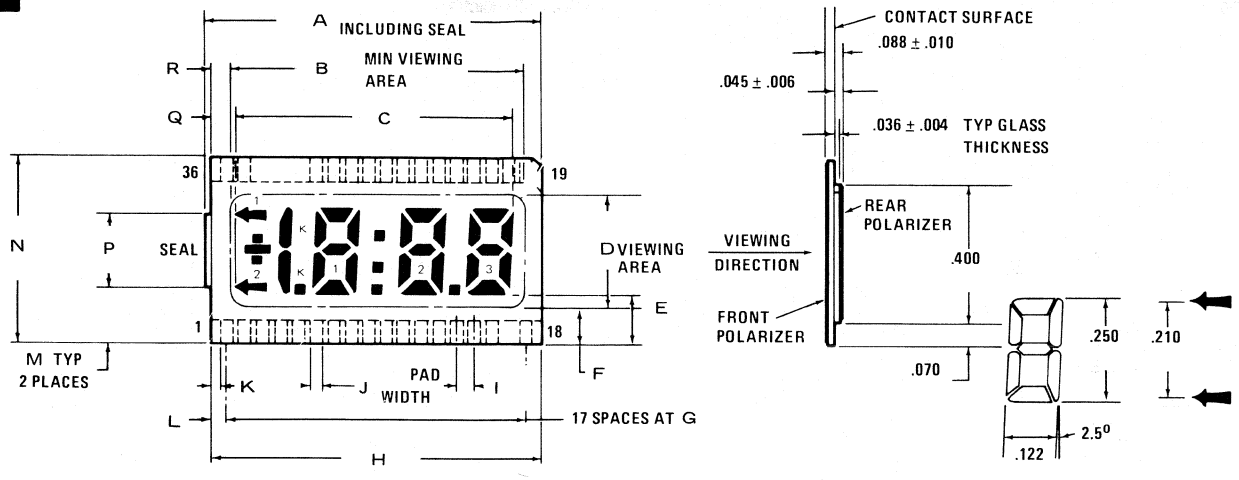


PY454

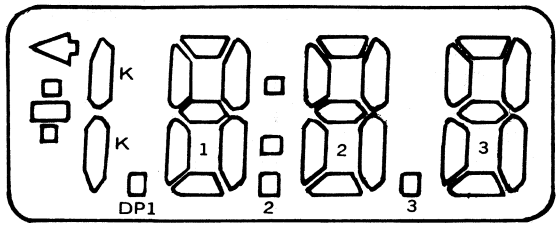


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R
PY454	.950 MAX	.836 MIN	.750	.335	.105 MAX	.145	.936	.850	.035 TYP	.042	.135 MIN	.250	.092	.055 MAX	.540	.050	.025
PY454a	.950 MAX	.856 MIN	.775	.320	.110	.145	.936	.850	.035 TYP	.042	.135 MIN	.250	.080	.040	.540	.050	.025

PY455

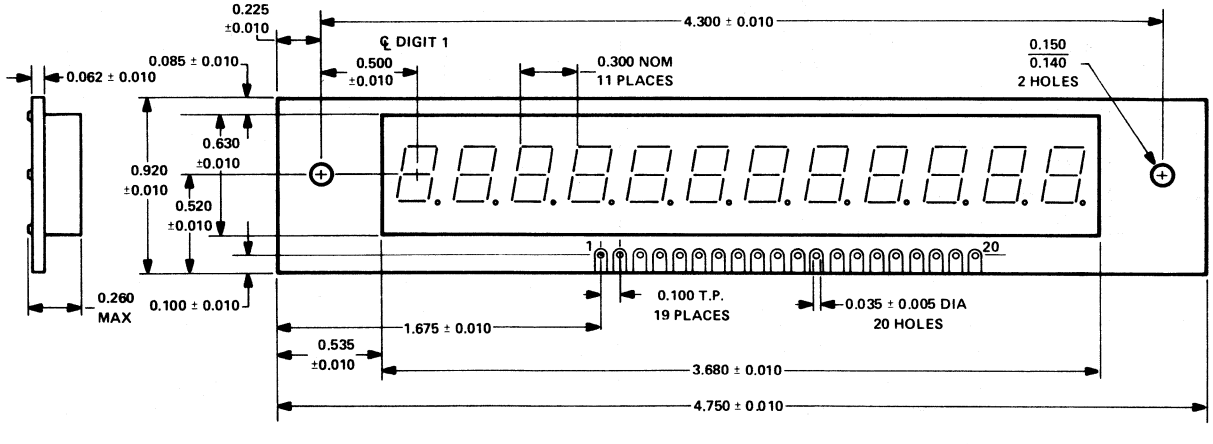


PY455a



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q	R
PY455	.950 MAX	.836 MIN	.780	.335	.145	.105	.850	.936	.050	.035	.025	.042	.135	.540	.250	.070	.055
PY455a	.950 MAX	.856 MIN	.775	.320	.145	.110	.850	.936	.050	.035	.025	.042	.135	.540	.250	.080	.040

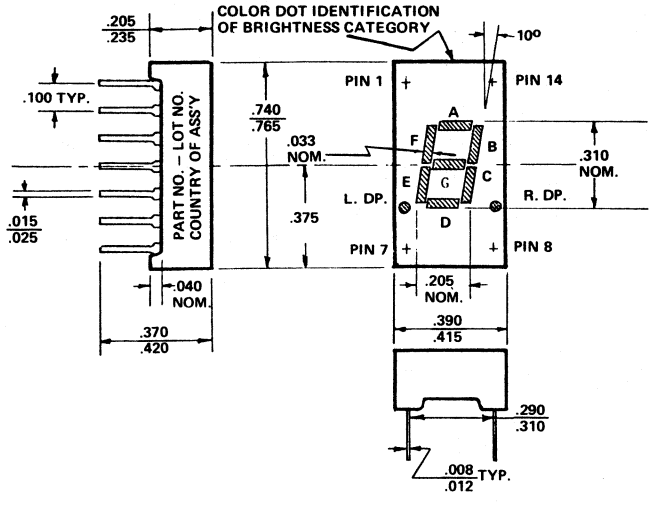
PY456



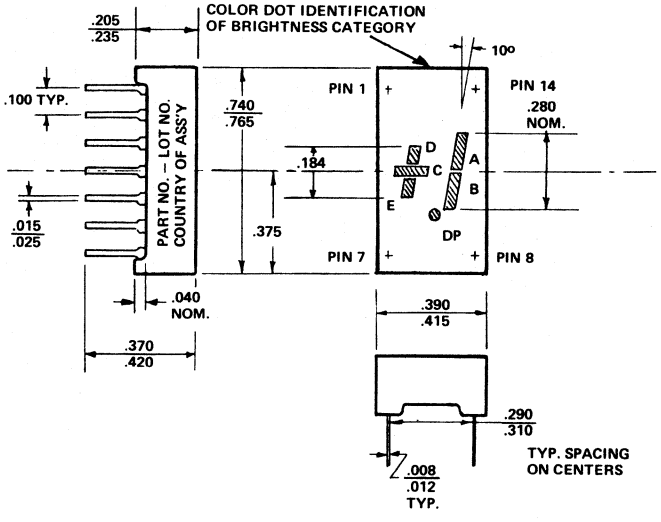
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

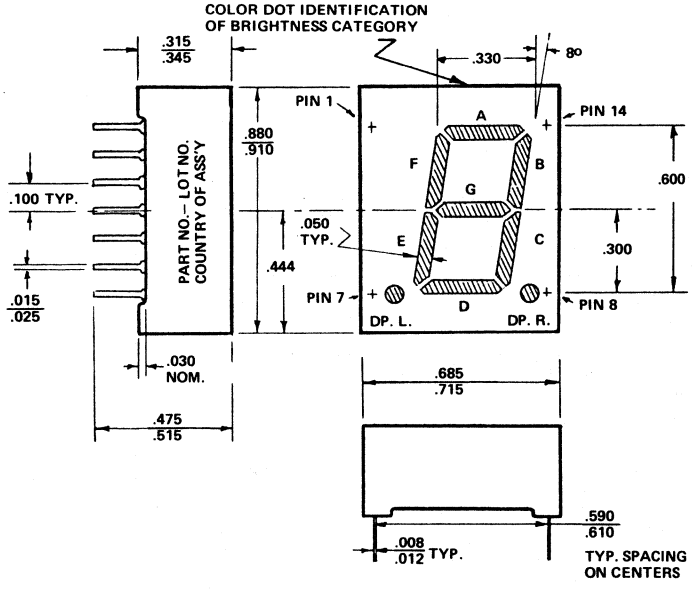
PY457



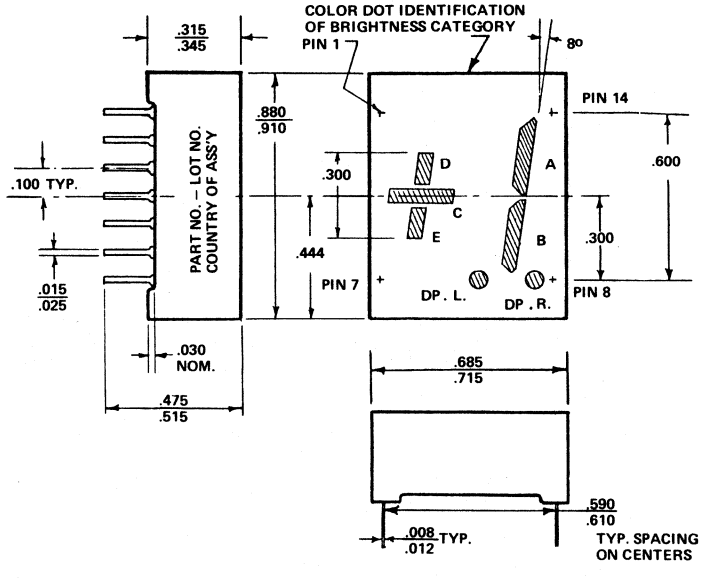
PY458



PY459



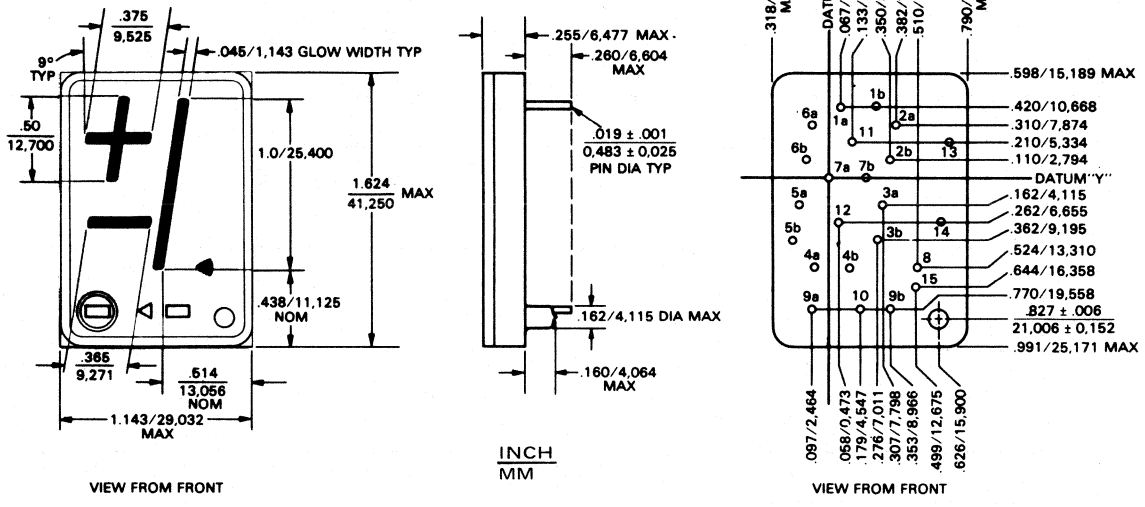
PY460



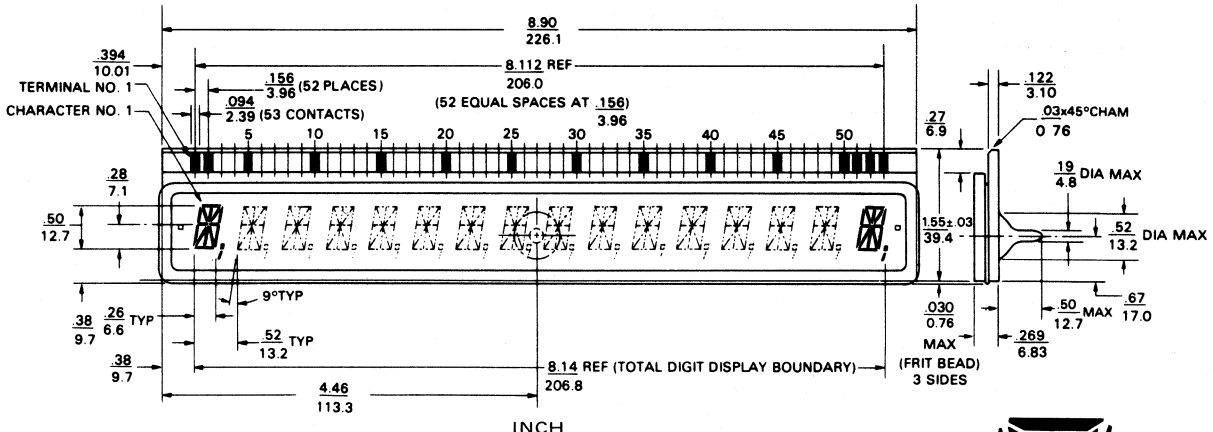
49. OUTLINE DRAWINGS

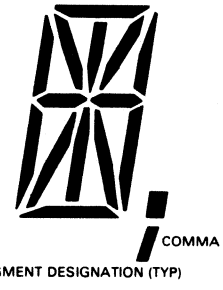
IN DRAWING NUMBER SEQUENCE

PY461



PY462





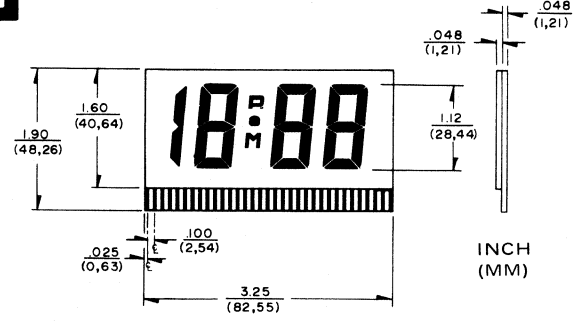
SEGMENT DESIGNATION (TYP)

PY463

DWG. NO.	CHARACTERS/ PANEL	CHARACTER ARRANGEMENT	CHARACTER FORMAT	CHARACTER SIZE H x W	DOT PITCH	VIEWING AREA W x H	OVERALL SIZE W x H x D	CONNECTION STYLE	DRIVING METHOD
PY463a	32	1 x 32	5 x 7 + U	.33 x .23 (8.3 x 5.7)	.050 (1.27)	9.53 x .43 (242.1 x 10.9)	10.67 x 1.06 x .55 (271.0 x 27.0 x 14.0)	DIP	DOUBLE SCAN
PY463b	32	2 x 16	5 x 7 + U	.21 x .15 (5.3 x 3.7)	.031 (0.8)	2.98 x .65 (75.7 x 16.5)	4.31 x 1.86 x .74 (109.6 x 47.2 x 18.8)	PIN	SINGLE SCAN
PY463c	32	2 x 16	5 x 7 + U	.33 x .23 (8.3 x 5.7)	.050 (1.27)	4.72 x .98 (120.0 x 25.0)	5.72 x 1.87 x 1.06 (145.4 x 47.4 x 27.0)	DIP	SINGLE SCAN
PY463d	32	2 x 16	7 x 9	.27 x .15 (6.9 x 5.3)	.031 (0.8)	3.99 x .78 (101.3 x 19.7)	5.31 x 2.10 x .74 (135.0 x 53.4 x 18.8)	PIN	SINGLE SCAN
PY463e	64	4 x 16	5 x 7 + U	.21 x .15 (5.3 x 3.7)	.031 (0.8)	2.98 x 1.41 (75.7 x 35.7)	4.39 x 2.85 x .74 (111.6 x 72.4 x 18.8)	PIN	SINGLE SCAN
PY463f	64	4 x 16	5 x 7 + U	.33 x .23 (8.3 x 5.7)	.050 (1.27)	4.72 x 2.08 (120.0 x 52.7)	5.72 x 2.97 x 1.06 (145.4 x 75.4 x 27.0)	DIP	SINGLE SCAN
PY463g	80	2 x 40	7 x 9	.27 x .21 (6.9 x 5.3)	.031 (0.8)	10.04 x .68 (254.9 x 17.3)	12.17 x 2.36 x .92 (309.0 x 60.0 x 23.3)	PIN	DOUBLE SCAN
PY463h	120	3 x 40	7 x 9	.27 x .21 (6.9 x 5.3)	.031 (0.8)	10.04 x 1.09 (254.9 x 27.7)	12.17 x 2.36 x .92 (309.0 x 60.0 x 23.3)	PIN	DOUBLE SCAN
PY463j	128	4 x 32	5 x 7 + U	.21 x .15 (5.3 x 3.7)	.031 (0.8)	6.00 x 1.41 (152.5 x 35.7)	7.26 x 2.69 x .82 (184.4 x 68.4 x 20.75)	PIN	SINGLE SCAN
PY463k	128	4 x 32	5 x 7 + U	.26 x .18 (6.5 x 4.5)	.039 (1.0)	8.72 x 1.75 (221.5 x 44.5)	10.94 x 3.78 x 1.16 (278.0 x 96.0 x 29.5)	PWB	SINGLE SCAN
PY463m	256	8 x 32	5 x 7 + U	.21 x .15 (5.3 x 3.7)	.031 (0.8)	6.00 x 2.92 (152.5 x 74.1)	7.26 x 4.20 x .82 (184.4 x 106.8 x 20.8)	PIN	SINGLE SCAN
PY463n	256	8 x 32	5 x 7 + U	.26 x .18 (6.5 x 4.5)	.039 (1.0)	8.72 x 3.64 (221.5 x 92.5)	10.94 x 5.67 x 1.16 (278.0 x 144.0 x 29.5)	PWB	SINGLE SCAN
PY463p	320	8 x 40	5 x 9	.27 x .15 (6.9 x 3.7)	.031 (0.8)	7.52 x 2.92 (190.9 x 74.1)	8.88 x 4.28 x .82 (225.6 x 108.8 x 20.8)	PIN	SINGLE SCAN
PY463q	320	4 x 80	5 x 7 + U	.21 x .15 (5.3 x 3.7)	.031 (0.8)	15.08 x 1.41 (382.9 x 35.7)	17.24 x 2.77 x .92 (438.0 x 70.4 x 23.3)	PIN	DOUBLE SCAN
PY463r	384	12 x 32	5 x 7 + U	.21 x .15 (5.3 x 3.7)	.031 (0.8)	6.00 x 4.43 (152.5 x 112.5)	7.34 x 5.80 x .82 (186.4 x 147.2 x 20.8)	PIN	SINGLE SCAN
PY463s	480	12 x 40	5 x 9	.27 x .15 (6.9 x 3.7)	.031 (0.8)	7.52 x 4.43 (190.9 x 112.5)	8.88 x 5.80 x .82 (225.6 x 147.2 x 20.8)	PIN	SINGLE SCAN
PY463t	512	16 x 32	5 x 7 + U	.21 x .15 (5.3 x 3.7)	.031 (0.8)	5.94 x 6.00 (150.9 x 152.5)	7.34 x 7.27 x .82 (186.4 x 184.6 x 20.8)	PIN	SINGLE SCAN
PY463u	960	24 x 40	5 x 9	.27 x .15 (6.9 x 3.7)	.031 (0.8)	7.52 x 8.96 (190.9 x 227.7)	8.88 x 10.33 x .82 (225.6 x 262.4 x 20.8)	PIN	SINGLE SCAN

All individual character field formats are separated in the lines by a space equivalent to one dot. Those character formats which include "+U" indicate an underbar located beneath the character separated by a space equivalent to one dot.

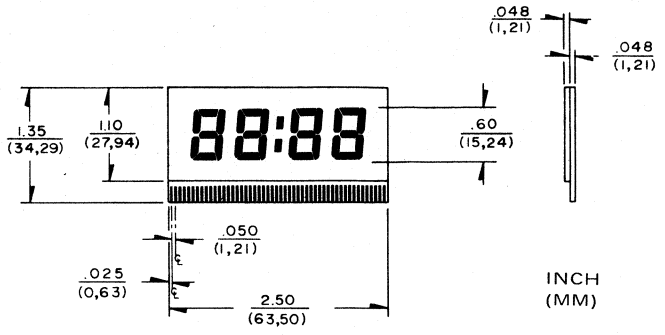
PY467



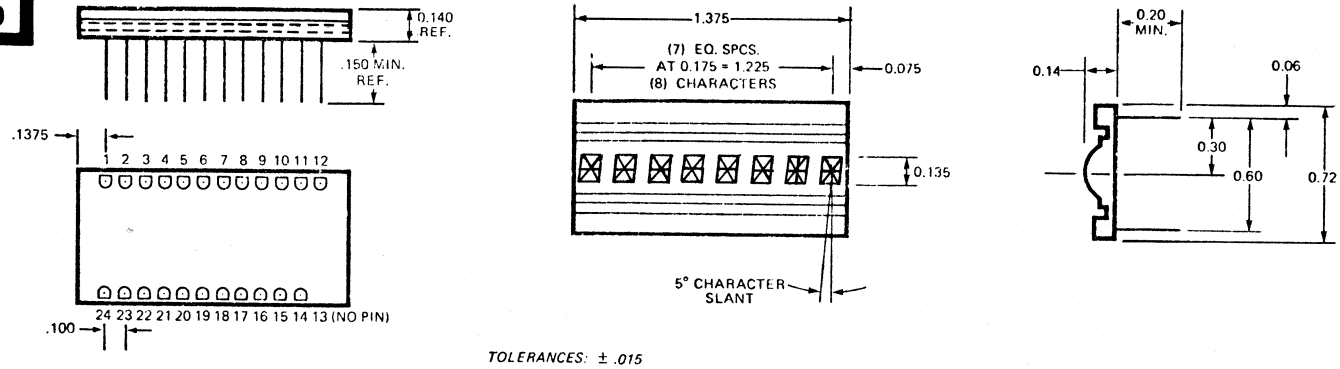
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY468

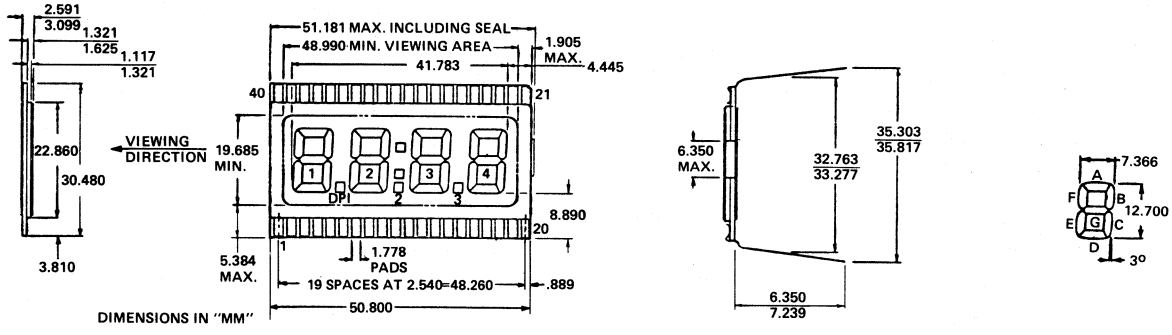


PY469

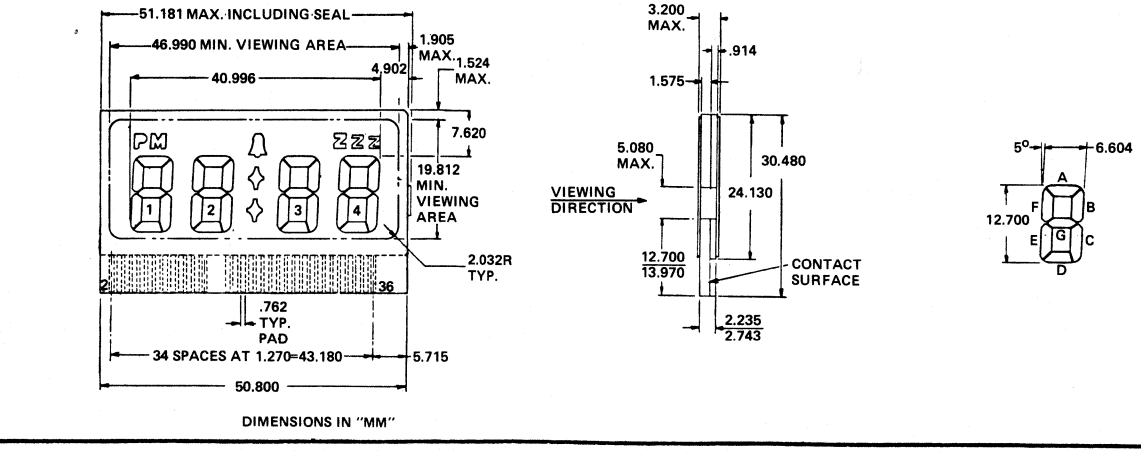


TOLERANCES: ± .015

PY470



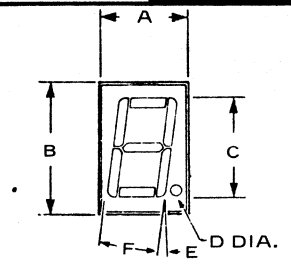
PY471



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

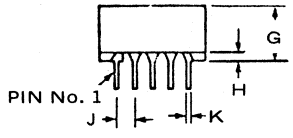
PY472

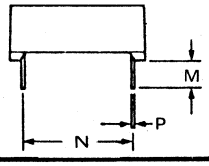


DIMENSIONS IN "MM"

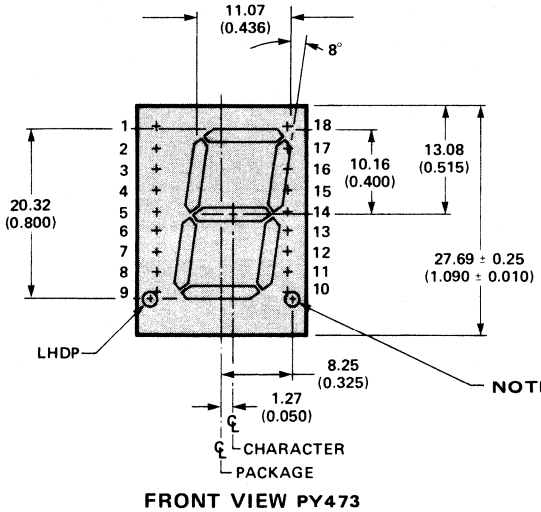
PY472 ONLY
TOLERANCE
± .015"

	A	B	C	D	E	F	G	H	J	K	M	N	P
PY472	12.2	19.0	14.2	1.68	8°	8.13	8.00	1.27	2.54 TYP	.510	3.94	15.2	.250
PY472a	12.2	19.0	14.4		10°	8.00	8.00		2.54	.500	3.50 MIN	15.2	.250

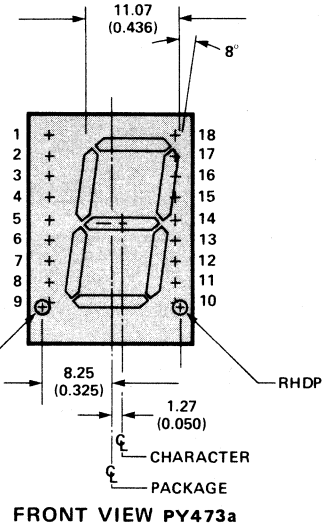




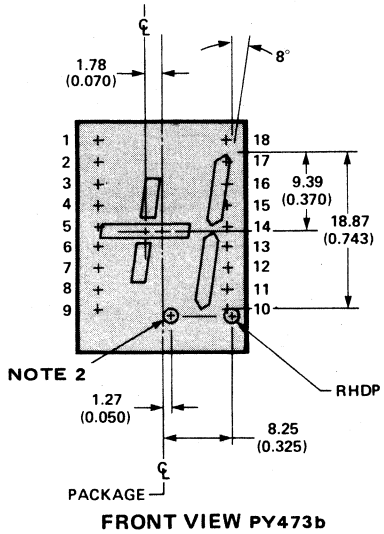
PY473



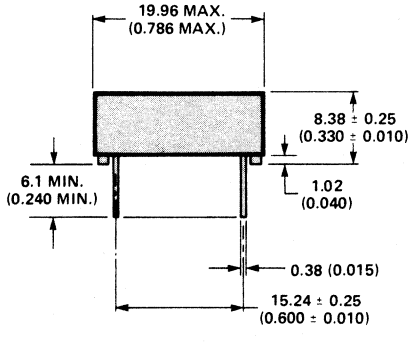
FRONT VIEW PY473



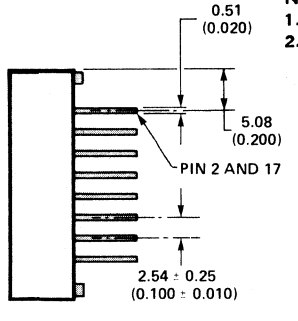
FRONT VIEW PY473a



FRONT VIEW PY473b



END VIEW



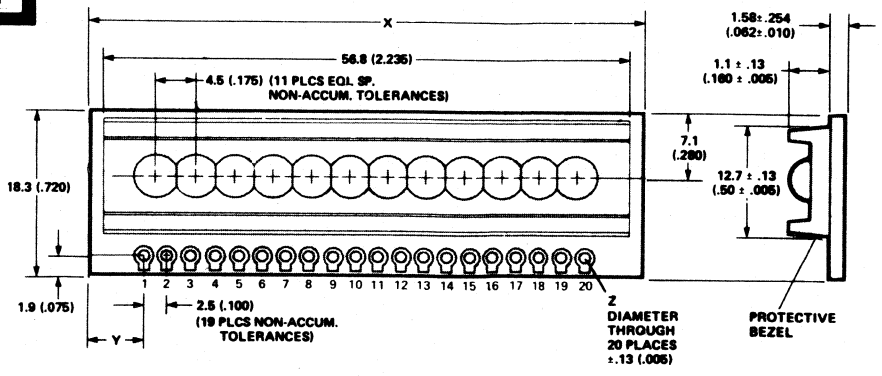
SIDE VIEW

NOTES:
1. **DIMENSIONS IN MILLIMETERS AND (INCHES).**
2. **UNUSED dp POSITION.**

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

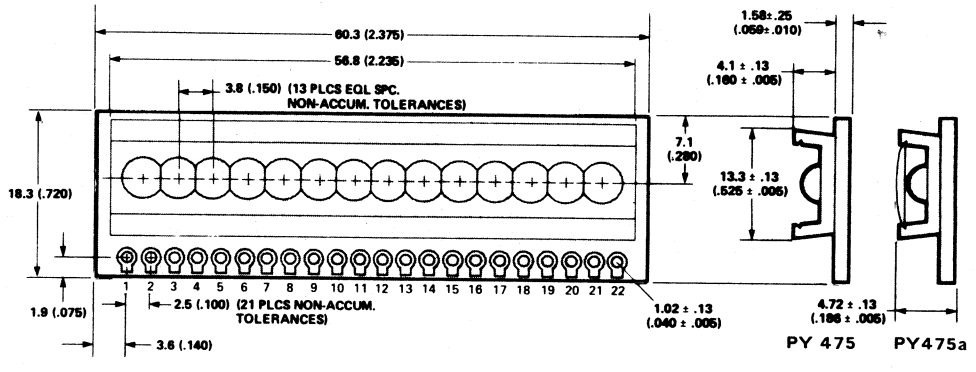
PY474



	X	Y	Z
PY474	60,3 (2,375)	6,03 (,2375)	1,02 (.040)
PY474a	59,6 (2,345)	5,70 (.2225)	1,42 (.056)

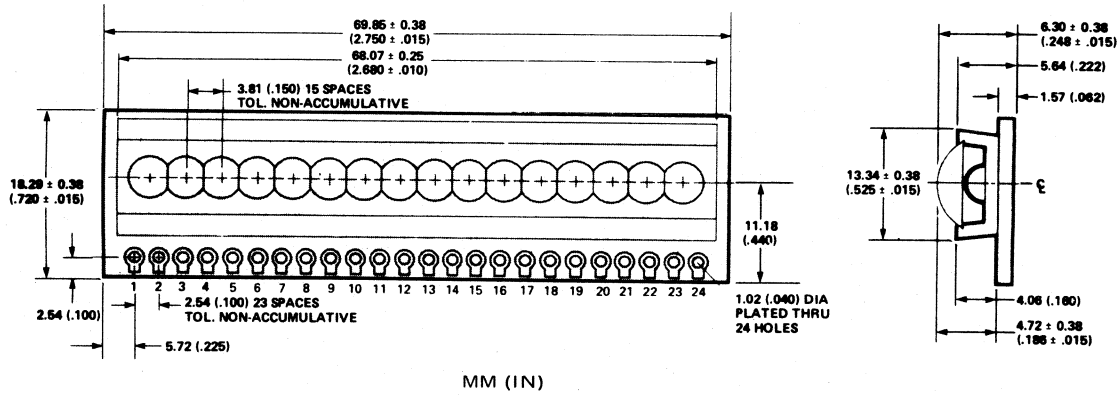
MM (IN)

PY475



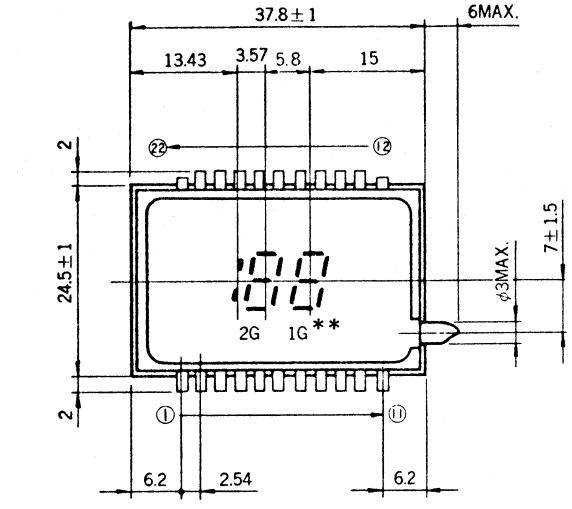
MM (IN)

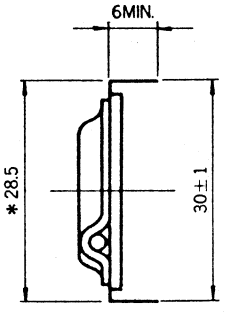
PY476

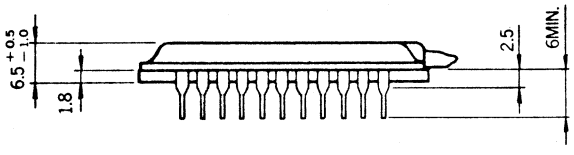


MM (IN)

PY477







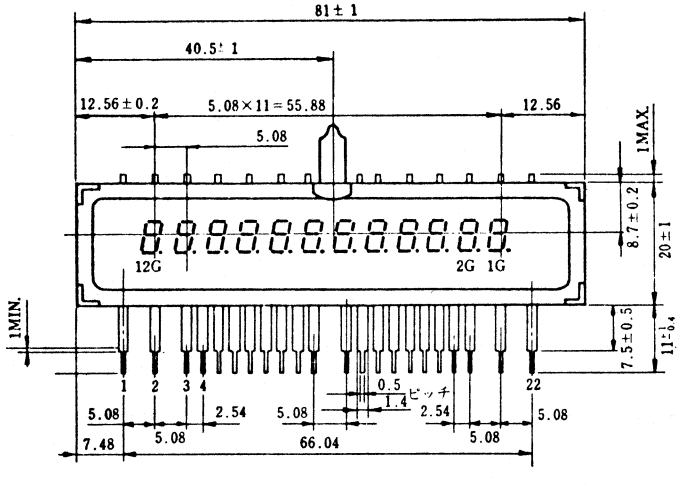
(Note)

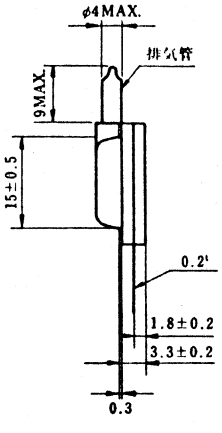
* The distance between the bent positions of the terminals.

** The digit numbers (1G to 2G) are omitted on an actual panel.

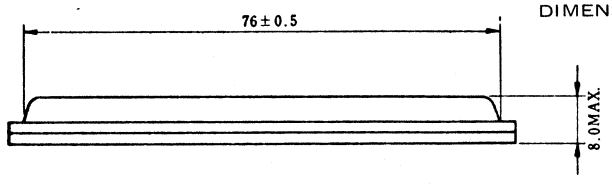
DIMENSIONS IN "MM"

PY478

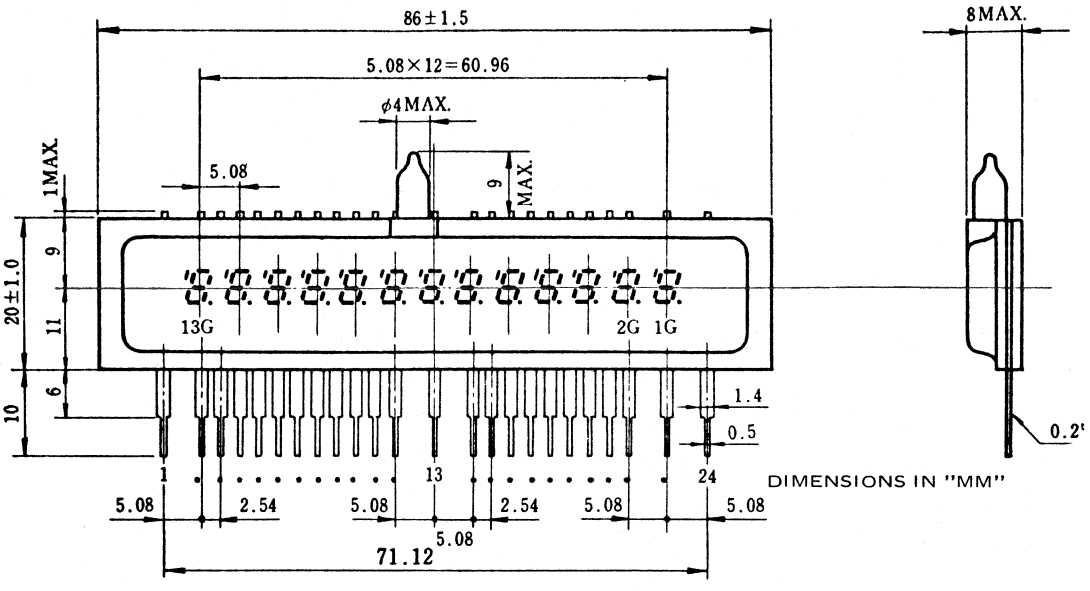




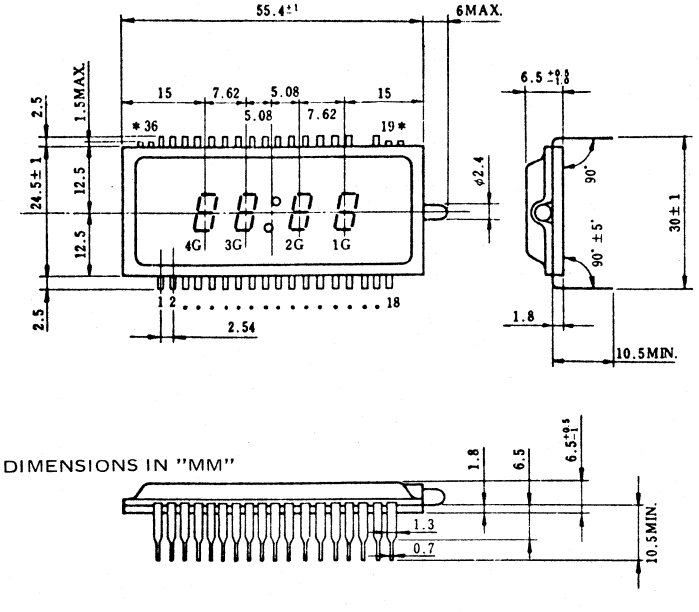
DIMENSIONS IN "MM"



PY479


86±1.5
5.08×12=60.96
φ4MAX.
8MAX.
1MAX.
5.08
9
MAX.
20±1.0
9
11
6
10
13G
2G
1G
1.4
0.5
0.2
1
13
24
5.08
2.54
5.08
2.54
5.08
5.08
5.08
71.12
DIMENSIONS IN "MM"

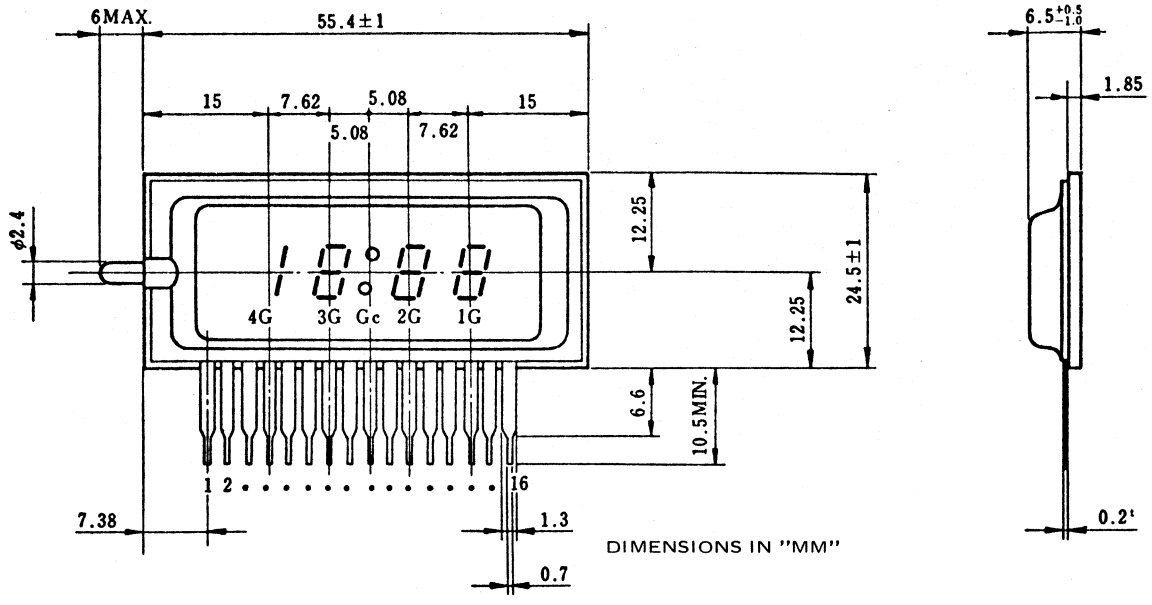
PY480


55.4±1
6MAX.
1.5MAX.
2.5
24.5±1
12.5
12.5
2.5
15
7.62
5.08
15
5.08
7.62
*36
19*
φ2.4
4G
3G
2G
1G
1
2
18
2.54
6.5 +0.8 -1.0
90°
90°±5°
30±1
1.8
10.5MIN.
DIMENSIONS IN "MM"
1.8
6.5
6.5 +0.5 -1
1.3
0.7
10.5MIN.

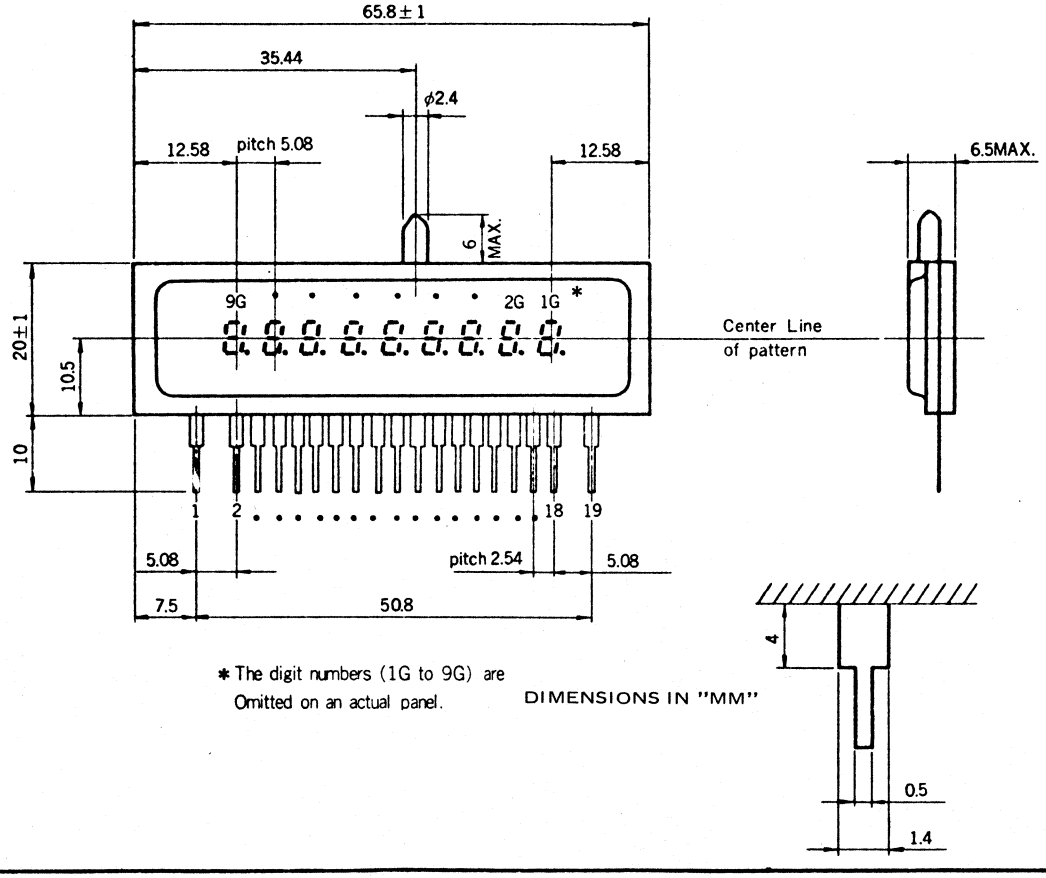
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY481

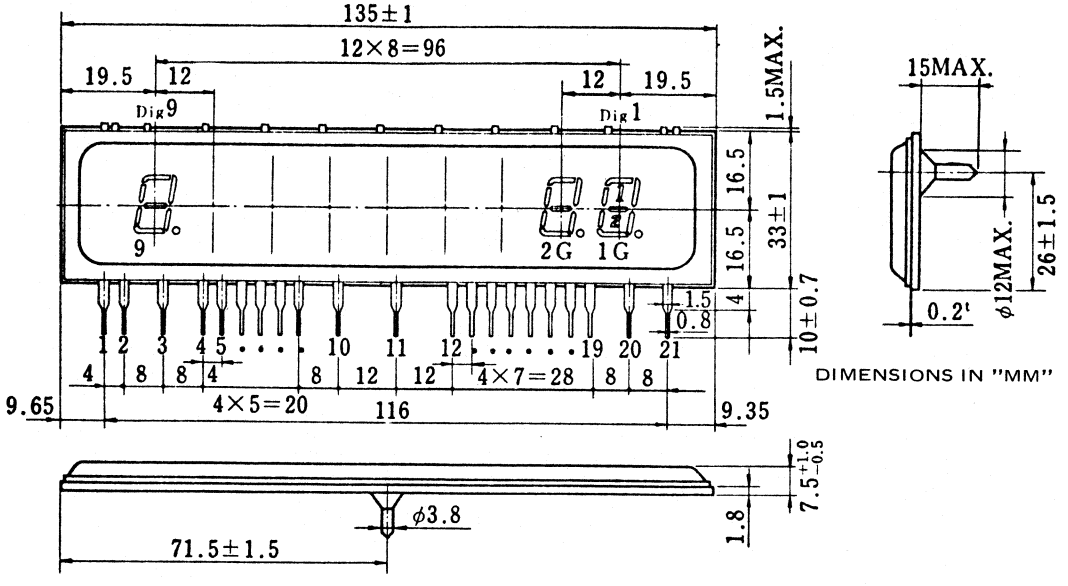


PY482



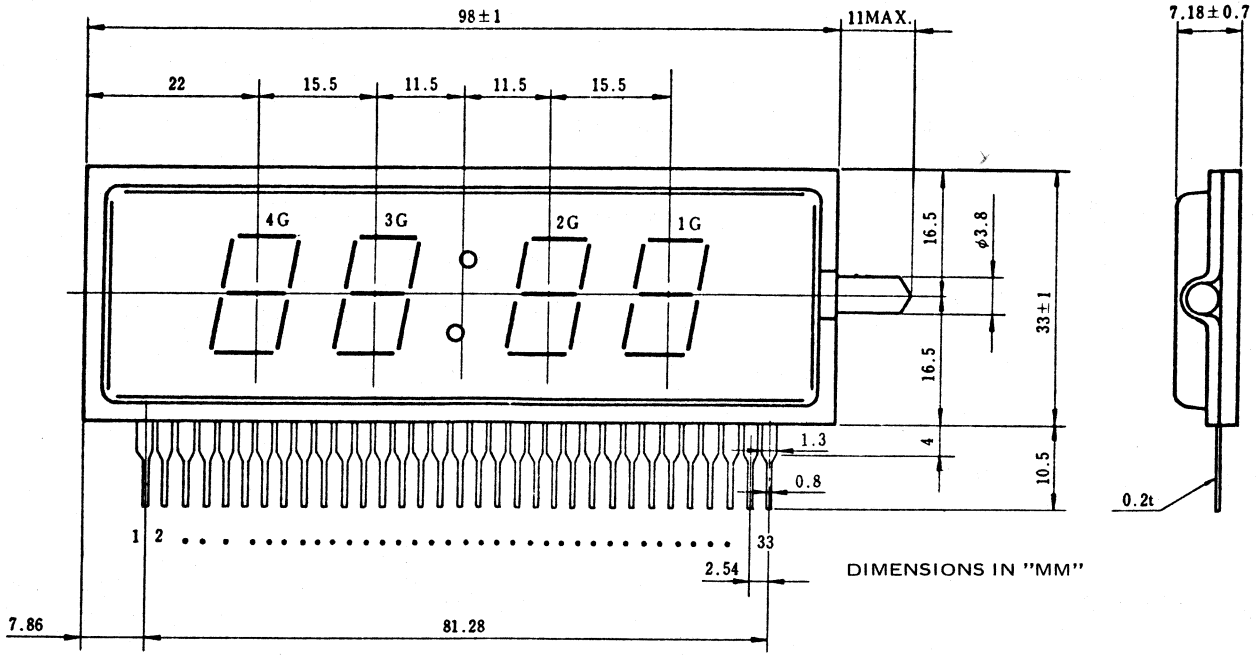
* The digit numbers (1G to 9G) are Omitted on an actual panel.

PY483



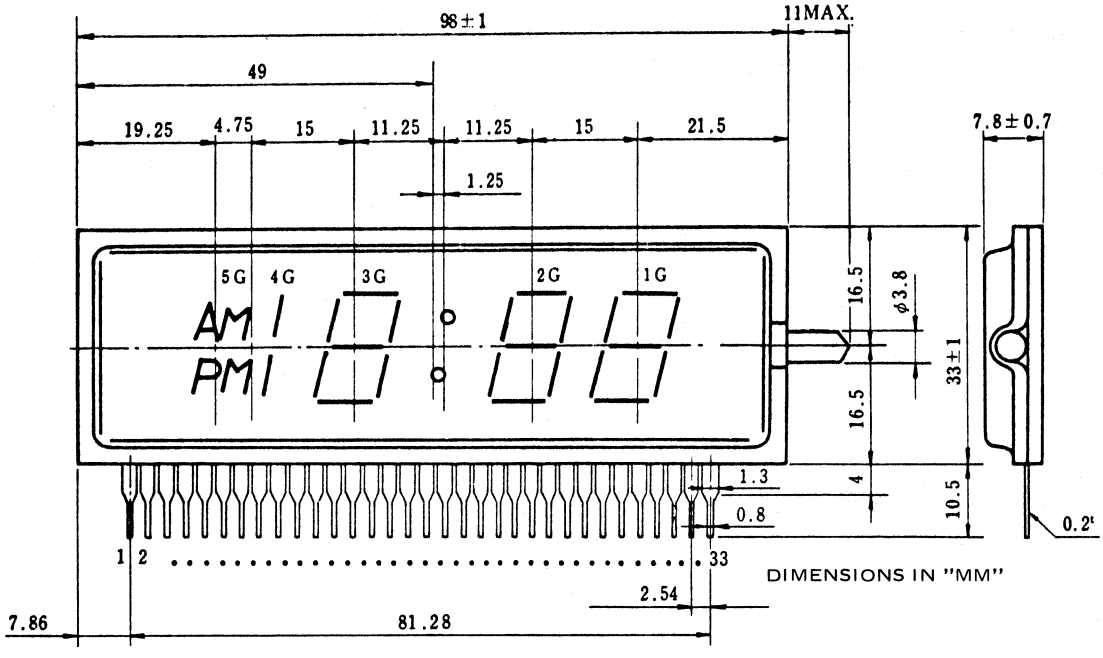
DIMENSIONS IN "MM"

PY484



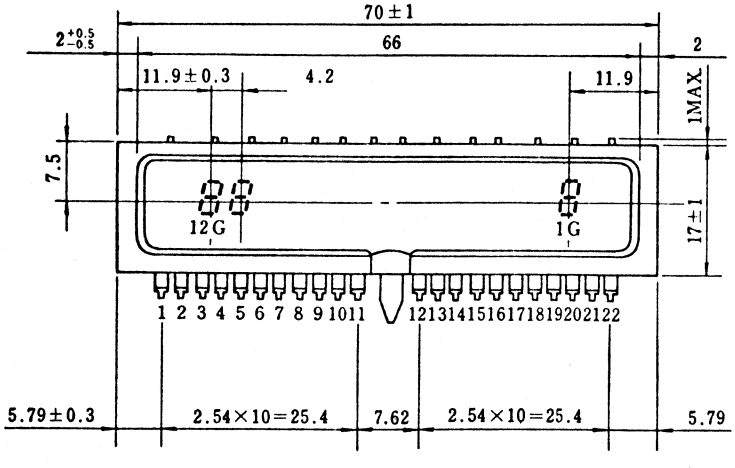
DIMENSIONS IN "MM"

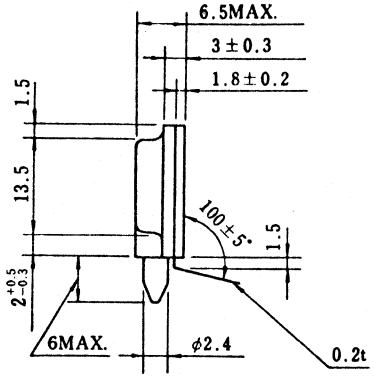
PY485



DIMENSIONS IN "MM"

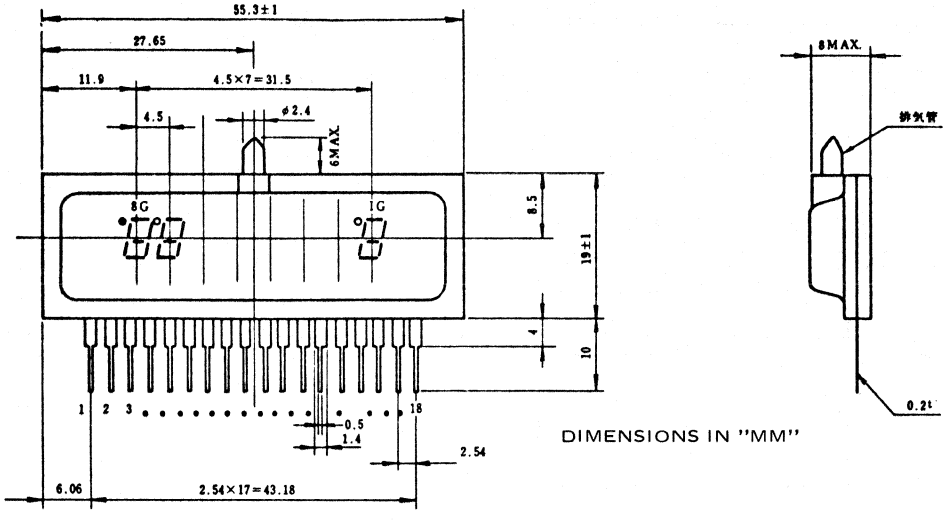
PY486





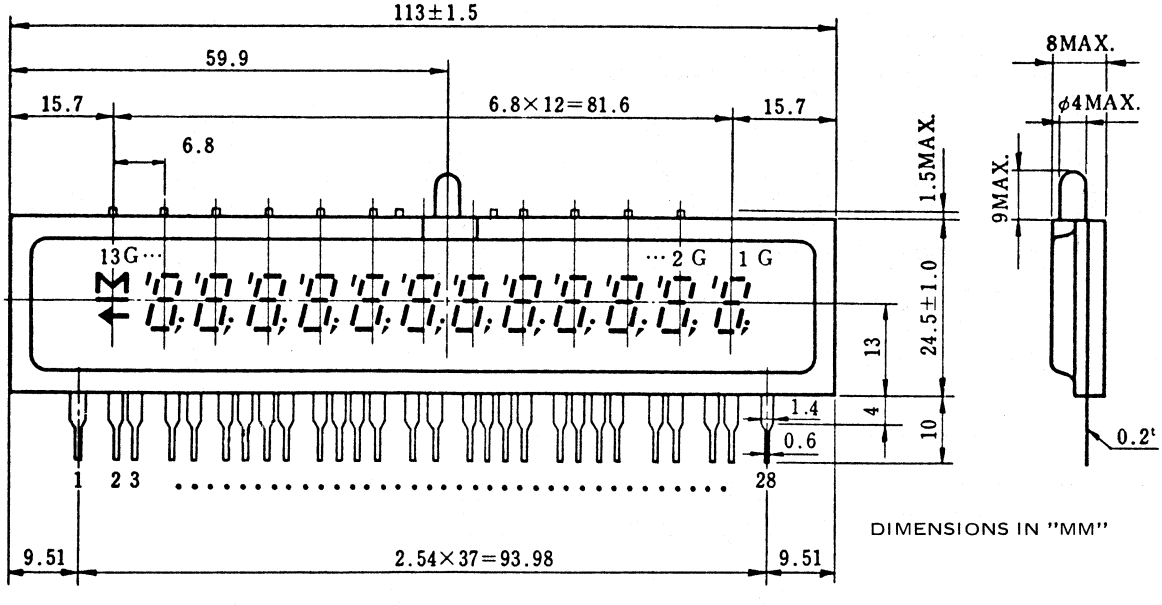
DIMENSIONS IN "MM"

PY487



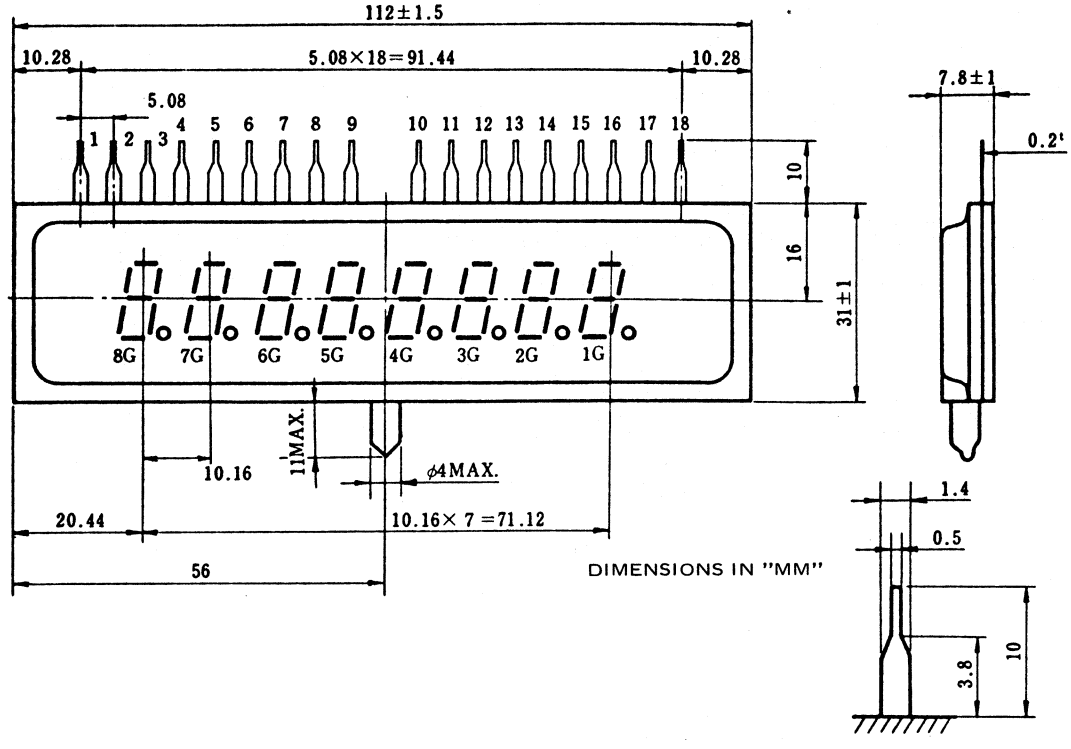
DIMENSIONS IN "MM"

PY488



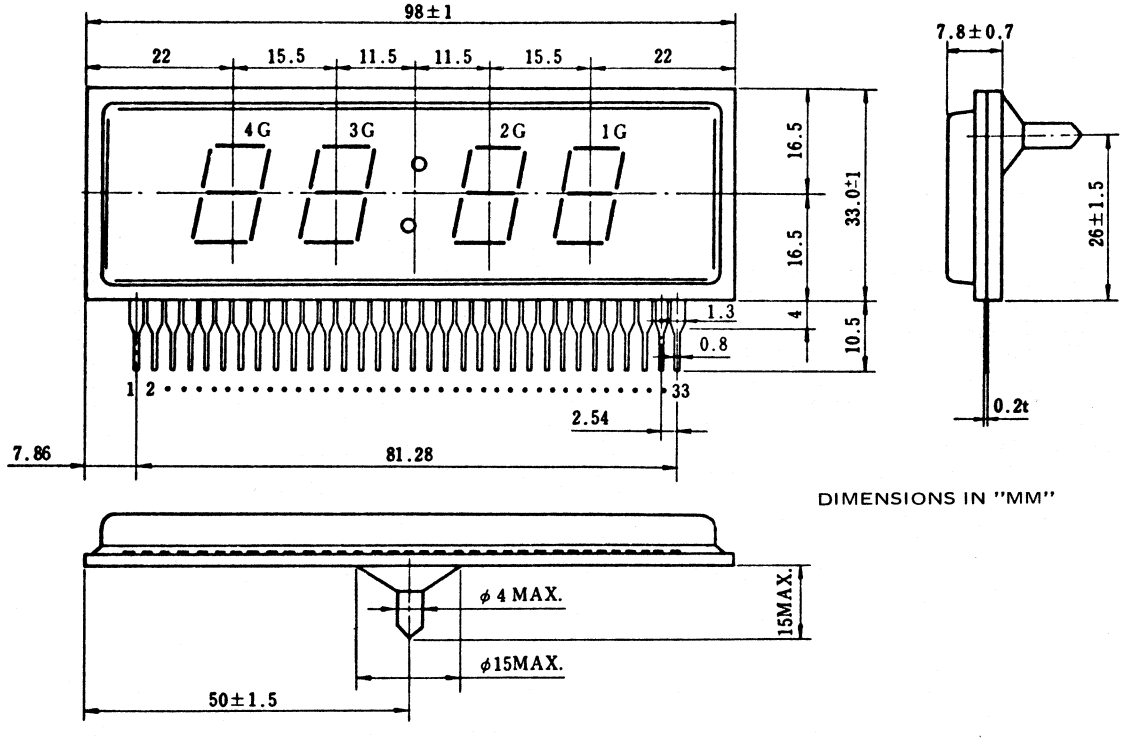
DIMENSIONS IN "MM"

PY489



DIMENSIONS IN "MM"

PY490

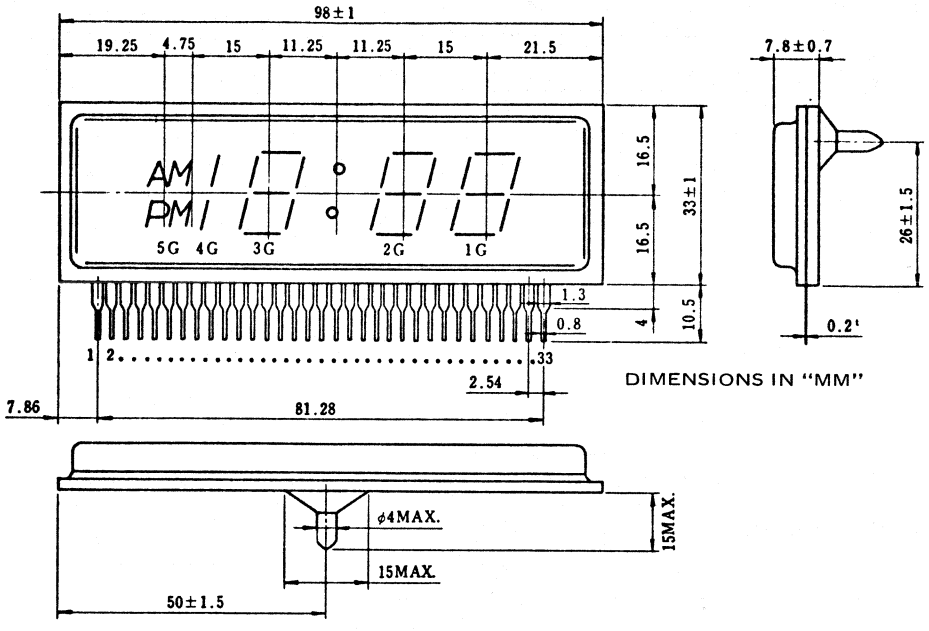


DIMENSIONS IN "MM"

49. OUTLINE DRAWINGS

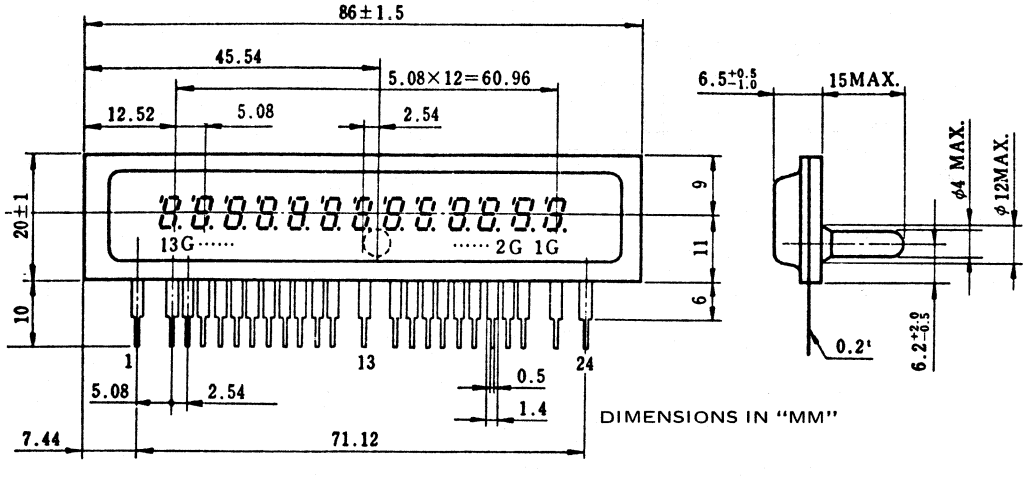
IN DRAWING NUMBER SEQUENCE

PY491



DIMENSIONS IN "MM"

PY492

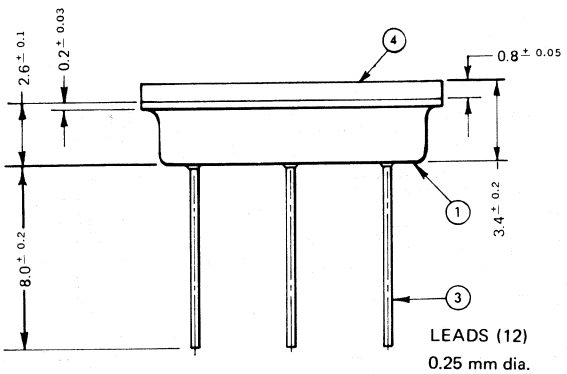


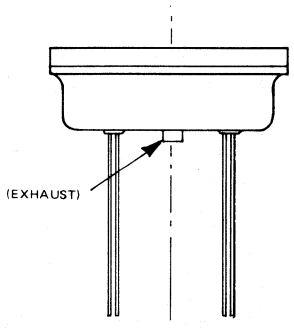
DIMENSIONS IN "MM"

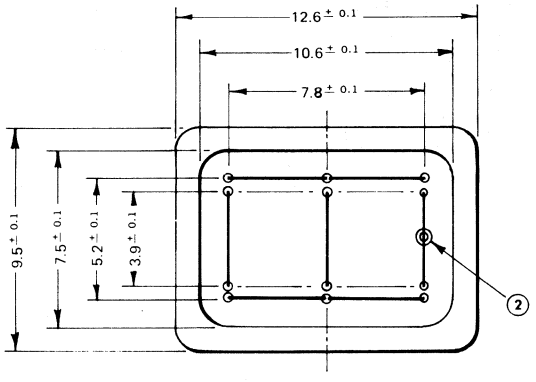
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY493

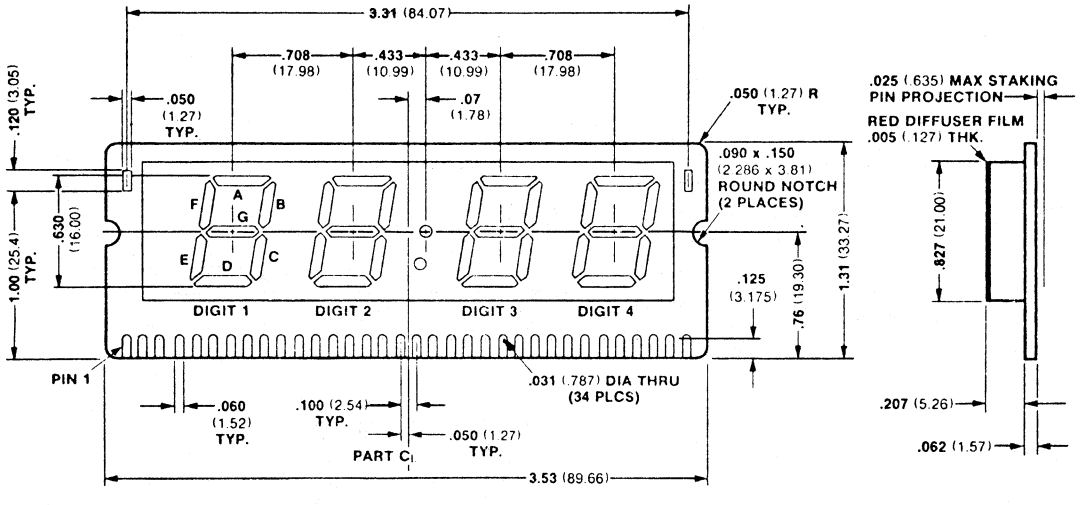






4	GLASS FACE PLATE
3	LEADS (Kovar)
2	EXHAUST PIPE (Kovar)
1	CASE (Kovar)

PY494

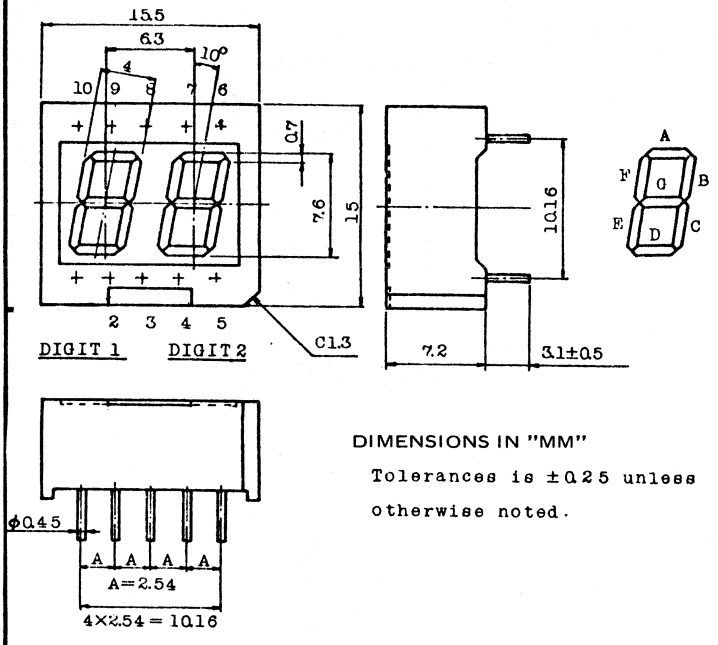


NOTE:
All dimensions in inches (bold) and millimeters (parentheses)

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

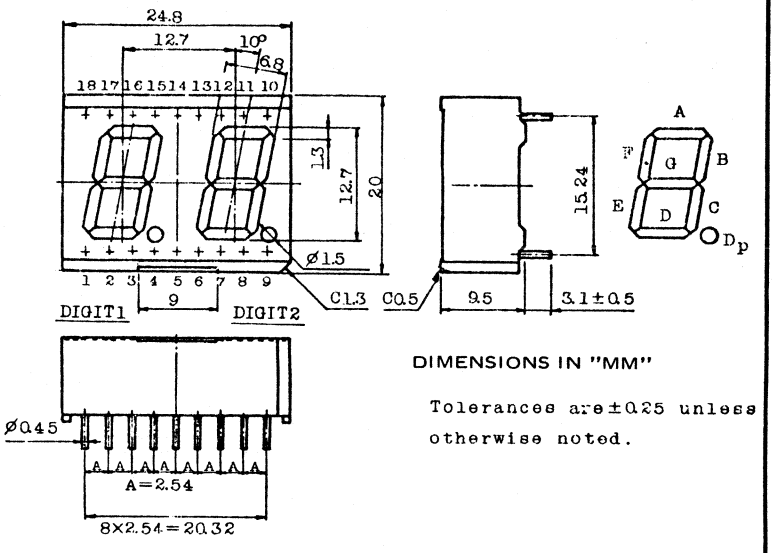
PY500



DIMENSIONS IN "MM"

Tolerances is ±0.25 unless otherwise noted.

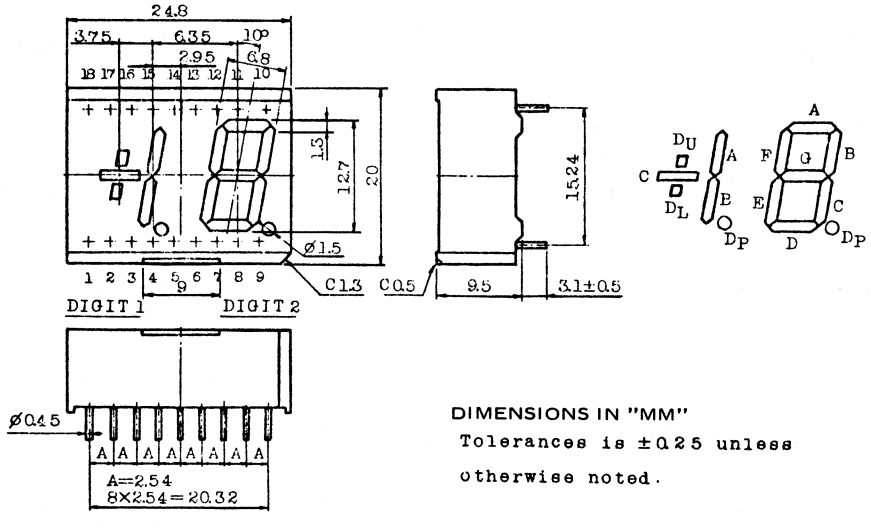
PY501



DIMENSIONS IN "MM"

Tolerances are ±0.25 unless otherwise noted.

PY502



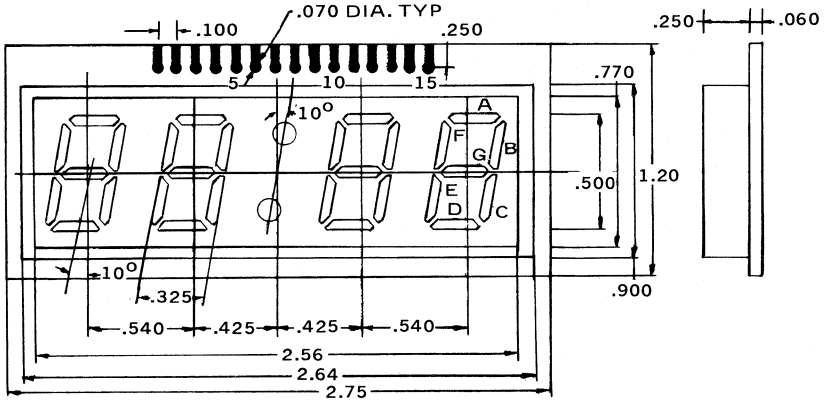
DIMENSIONS IN "MM"

Tolerances is ±0.25 unless otherwise noted.

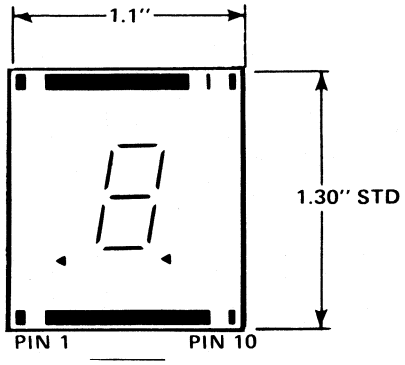
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

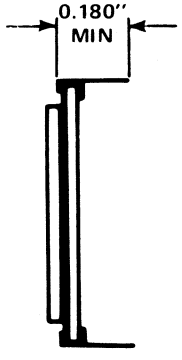
PY503

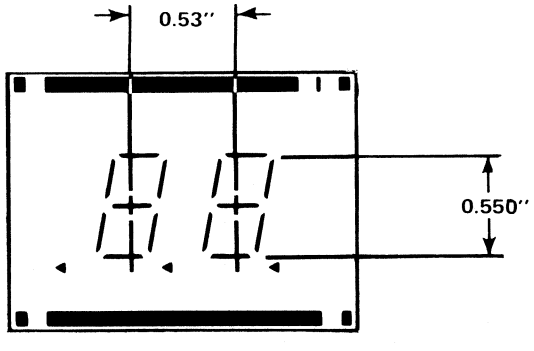


PY505

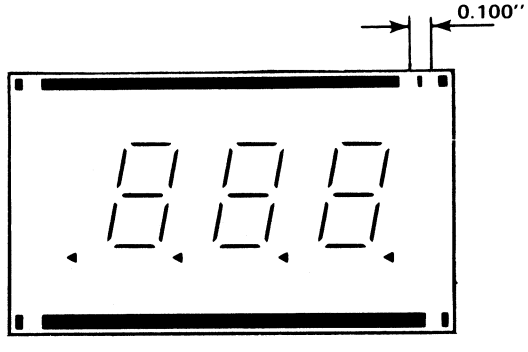


PY505

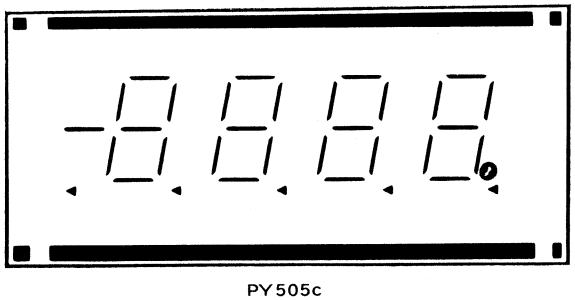




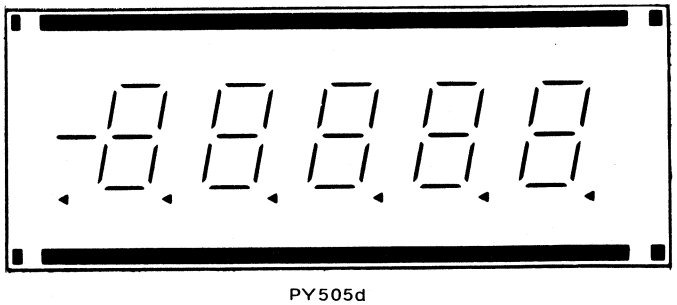
PY505a



PY505b

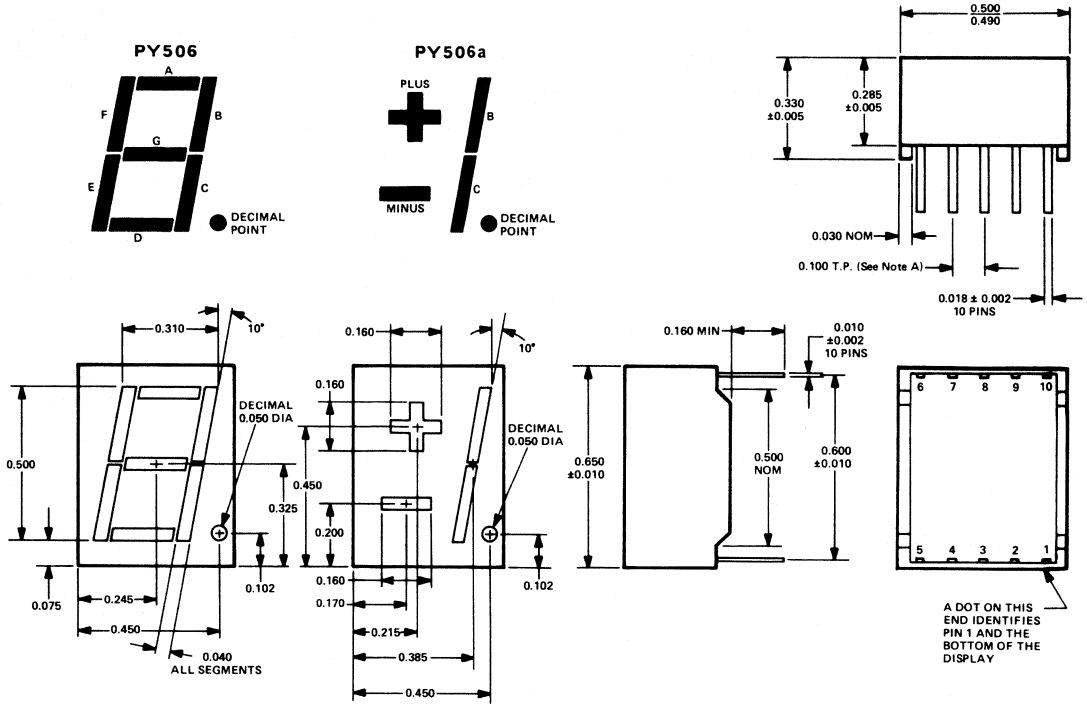


PY505c

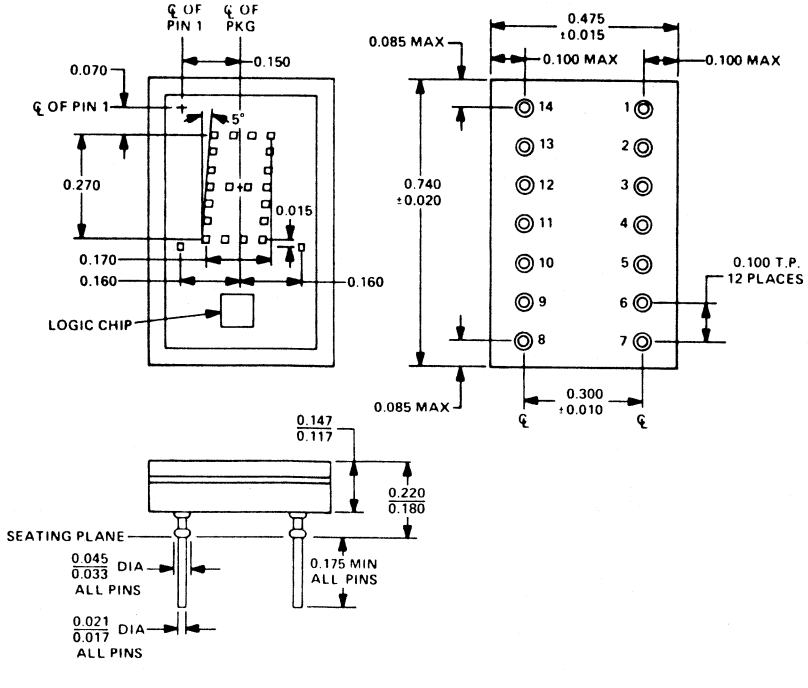


PY505d

PY506


PY506
A
F
B
G
E
C
D
DECIMAL POINT
PY506a
PLUS
MINUS
B
C
DECIMAL POINT
0.500
0.490
0.330 ±0.005
0.285 ±0.005
0.030 NOM
0.100 T.P. (See Note A)
0.018 ± 0.002
10 PINS
0.310
10°
0.500
DECIMAL 0.050 DIA
0.450
0.325
0.102
0.075
0.245
0.450
0.040
ALL SEGMENTS
0.160
10°
0.160
DECIMAL 0.050 DIA
0.200
0.160
0.170
0.215
0.385
0.450
0.102
0.160 MIN
0.010 ±0.002 10 PINS
0.650 ±0.010
0.500 NOM
0.600 ±0.010
6 7 8 9 10
5 4 3 2 1
A DOT ON THIS END IDENTIFIES PIN 1 AND THE BOTTOM OF THE DISPLAY

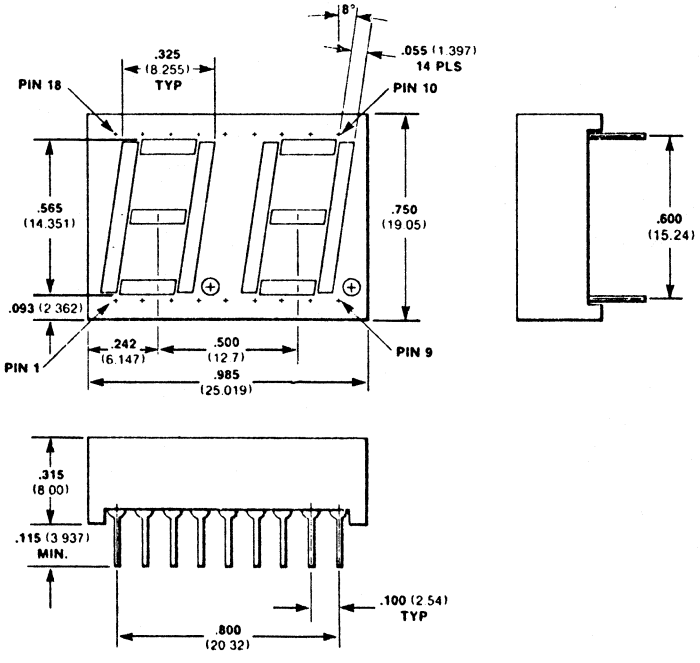
PY507


℄ OF PIN 1
℄ OF PKG
0.150
0.070
℄ OF PIN 1
5°
0.270
0.015
0.170
0.160
0.160
LOGIC CHIP
0.475 ±0.015
0.085 MAX
0.100 MAX
0.100 MAX
14
13
12
11
10
9
8
1
2
3
4
5
6
7
0.740 ±0.020
0.100 T.P. 12 PLACES
0.085 MAX
0.300 ±0.010
0.147
0.117
0.220
0.180
SEATING PLANE
0.045
0.033
DIA
ALL PINS
0.175 MIN ALL PINS
0.021
0.017
DIA
ALL PINS

49. OUTLINE DRAWINGS

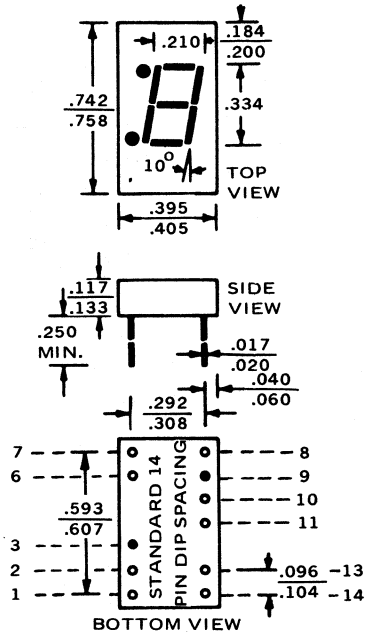
IN DRAWING NUMBER SEQUENCE

PY508



NOTES:
All dimensions in inches (bold) and millimeters (parentheses)

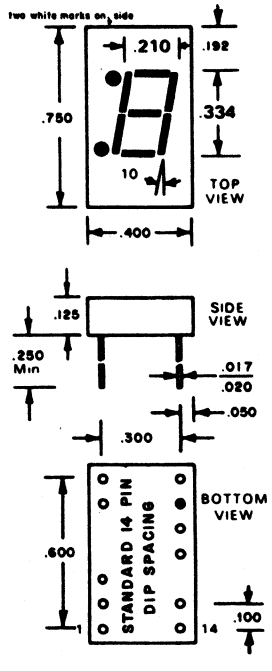
PY510



● PIN MAY BE OMITTED BY MFR.

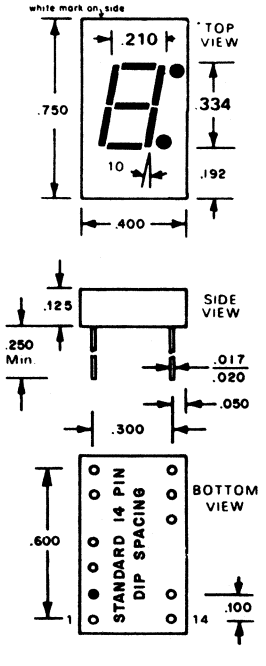
PY510 = PINS No. 3,9 MAY BE OMITTED BY MFR.
PY510a = PIN No. 9 MAY BE OMITTED BY MFR.

PY511



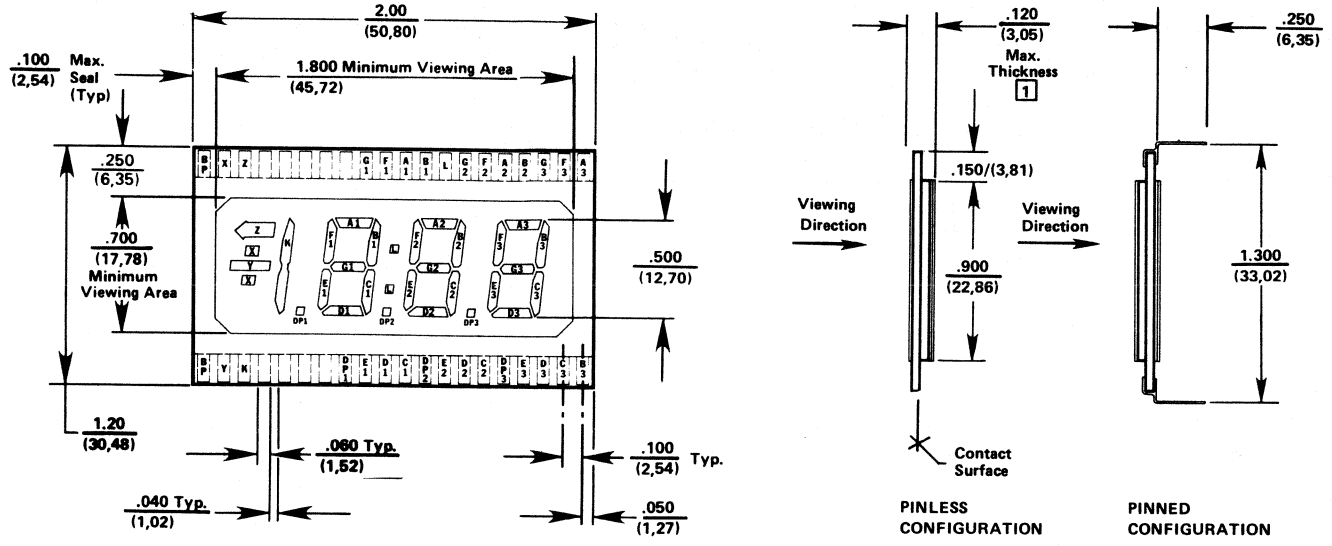
● Pin may be omitted by mfr.

PY512



● Pin may be omitted by mfr.

PY513



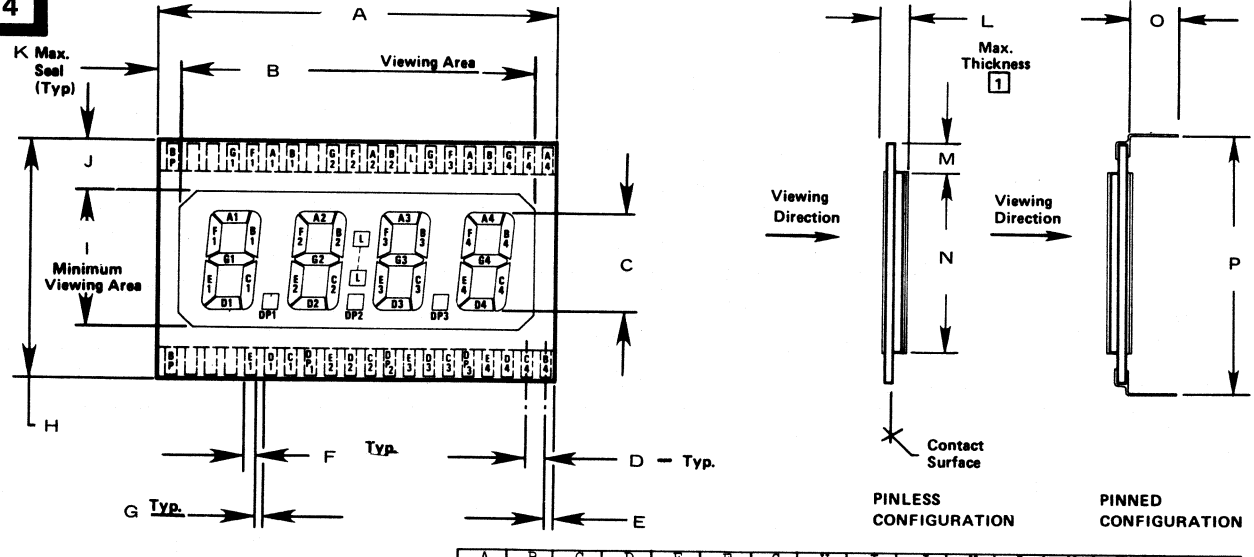
NOTES

1 Maximum thickness includes front and back polarizers plus reflector attached.

2 Dimensions: Inches / (mm)

MINIMUM VIEWING AREA: 1.800 x .700 (45,72 mm x 17,78 mm)

PY514



NOTES

1 Maximum thickness includes front and back polarizers plus reflector attached.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
PY514	2.00	1.80 MIN	.500	.100	.035	.060	.040	1.20	.700	.250	.100	.120	.150	.900	.250	1.30
PY514a	2.75	2.50 MIN	.700	.100	.430	.060	.040	1.50	.950	.275	.125	.120	.150	1.20	.250	1.60
PY514b	2.00	1.80	.500	.100	.049	.060	.040	1.20	.700	.149		.111			.125	1.30
PY514c	2.75	2.55	.700	.100		.060	.040	1.50	1.00	.150		.111			.125	1.30
PY514d	2.25	2.05	.600	.100	.175	.060	.040	1.20	.800	.100		.111			.125	1.30

FOR PY514b,c,d ONLY

MODE	#1	Reflective
	#2	Transmissive
	#3	Transflective
	#4	Diffused Reflective
	#5	Diffused Transflective

PIN CONFIG. FOR PY514a ONLY

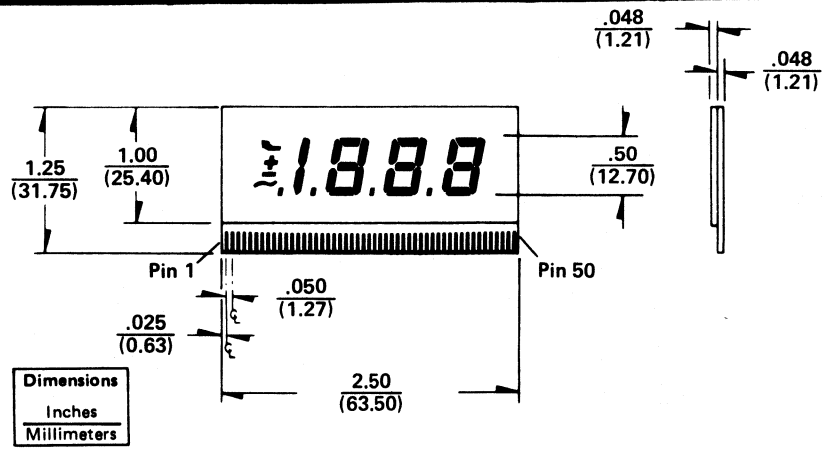
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Segment	BP	N/C	N/C	N/C	E1	D1	C1	dp1	E2	D2	C2	dp2	E3	D3	C3	dp3	E4	D4	C4	B4

Pin No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Segment	A4	F4	G4	B3	A3	F3	G3	L	B2	A2	F2	G2	N/C	B1	A1	F1	G1	N/C	N/C	N/C

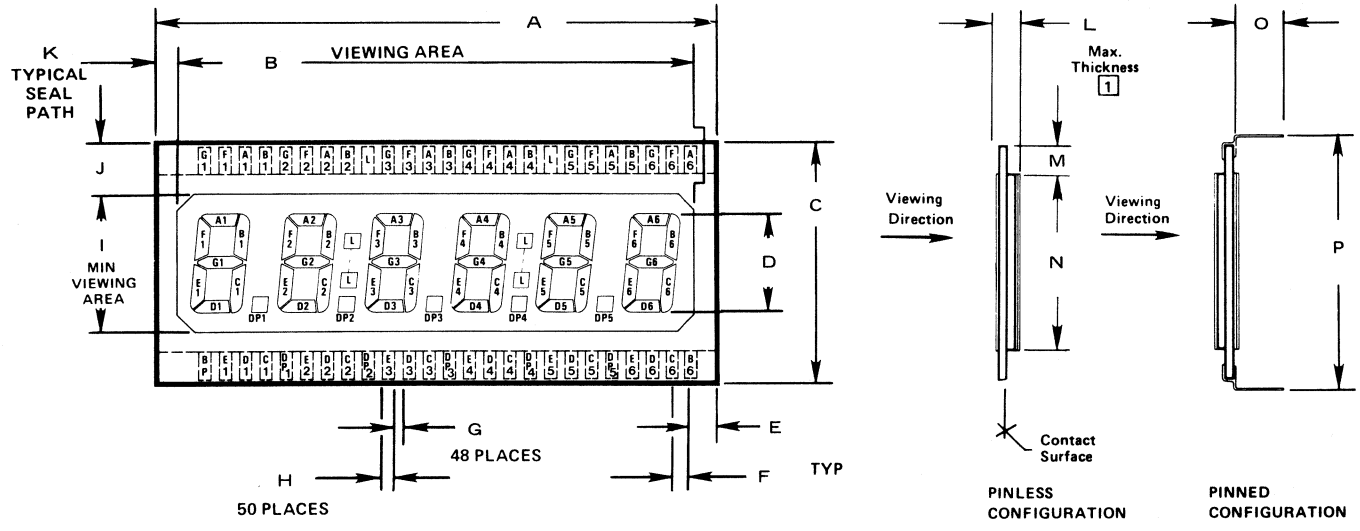
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY515



PY516



NOTES

1 Maximum thickness includes front and back polarizers plus reflector attached.

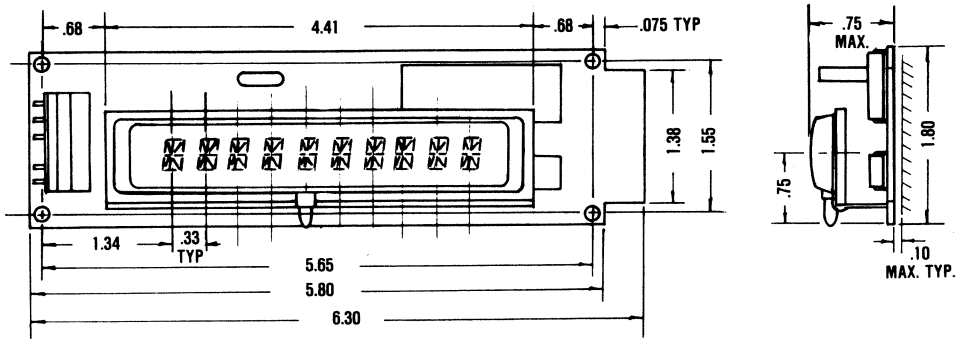
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
PY516	2.75	2.55 MIN	1.20	.500	.125	.100	.040	.060	.700	.250	.100	.120	.150	.900	.250	1.30
PY516a	3.69	3.45	1.50	.700	.650	.100	.040	.060	.950	.275	1.25	.120	.150	1.20	.250	1.60

PIN CONFIG. FOR PY516a ONLY

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Segment	BP	E1	D1	C1	dp1	E2	D2	C2	dp2	E3	D3	C3	dp3	E4	D4	C4	dp4	E5	D5	C5	dp5	E6	D6	C6	B6

Pin No.	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Segment	A6	F6	G6	B5	A5	F5	G5	L	B4	A4	F4	G4	B3	A3	F3	G3	L	B2	A2	F2	G2	B1	A1	F1	G1

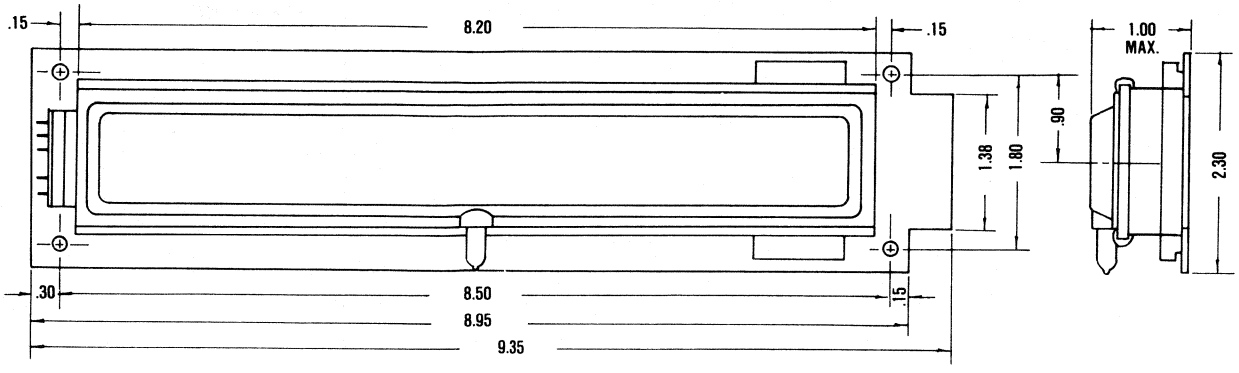
PY517



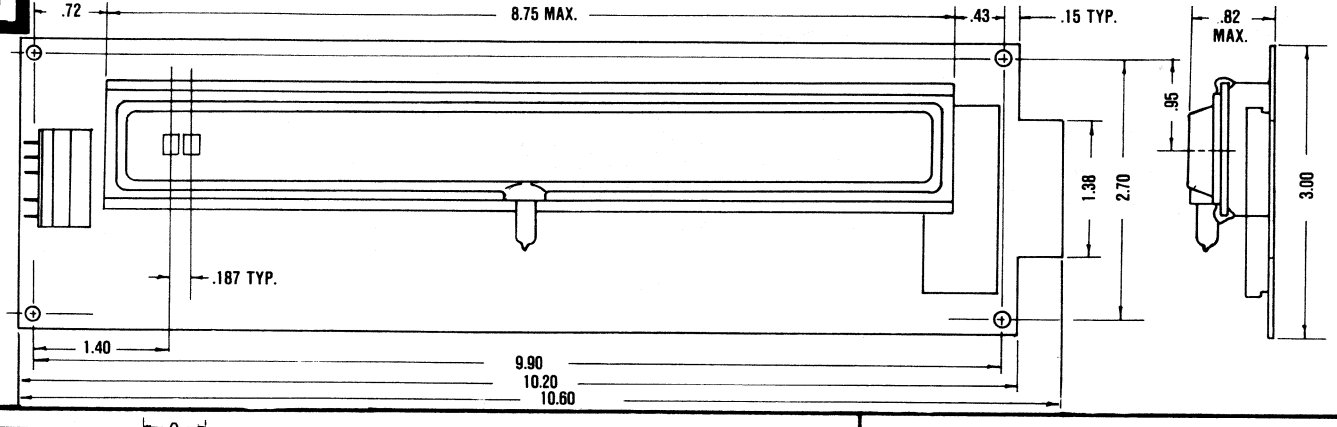
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

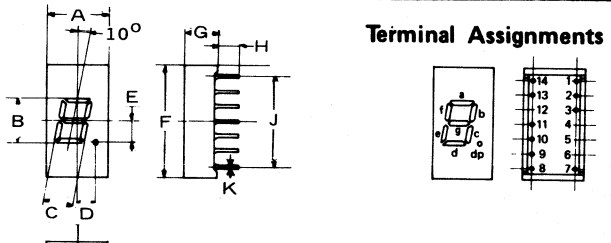
PY518



PY519



PY520

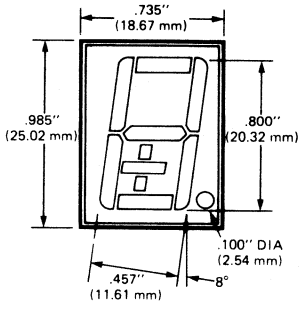


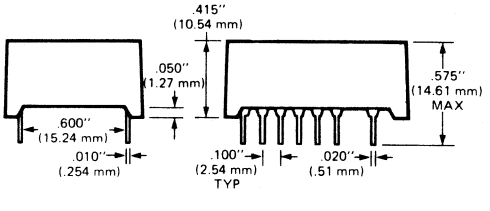
Terminal Assignments

DIMENSIONS IN "MM"

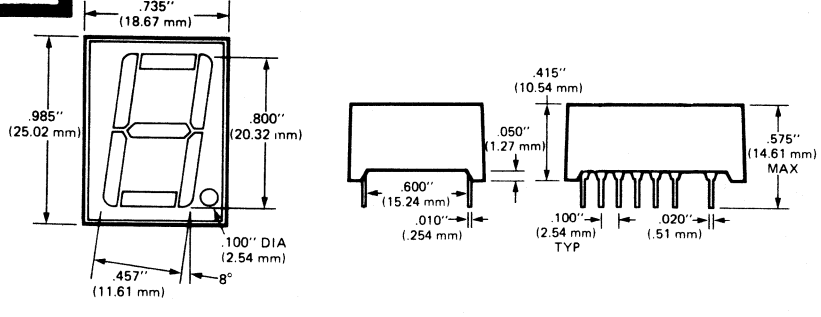
	A	B	C	D	E	F	G	H	J	K	M	N
PY520	10.0	7.60	5.00	3.00	3.60	19.0	5.5	3.50 MIN	15.24	.500	7.60	.250
PY520a	11.0	11.0	7.00	4.30	6.00	19.0	6.5	3.50 MIN	15.24	.500	7.60	.250

PY521





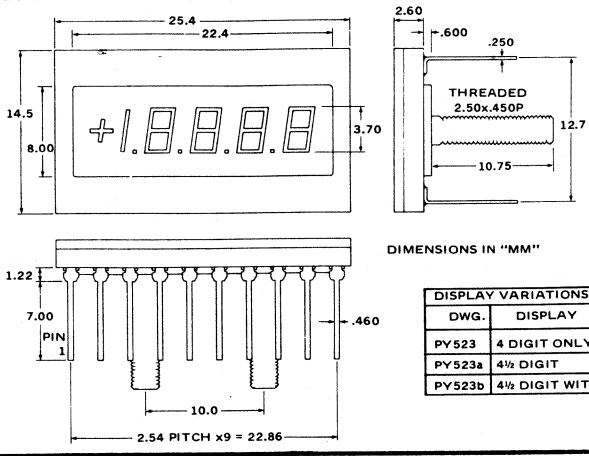
PY522



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

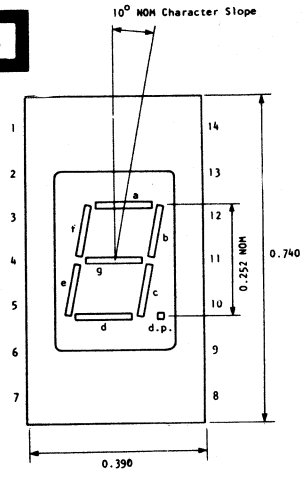
PY523



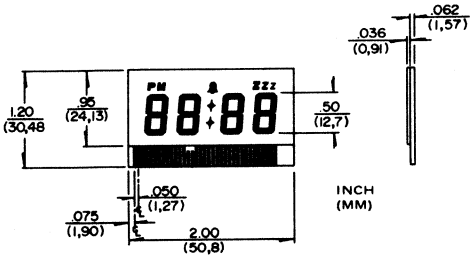
DIMENSIONS IN "MM"

DISPLAY VARIATIONS	
DWG.	DISPLAY
PY523	4 DIGIT ONLY
PY523a	4½ DIGIT
PY523b	4½ DIGIT WITH ±

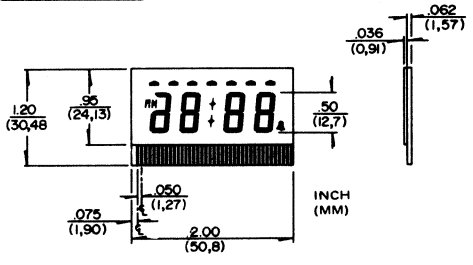
PY524

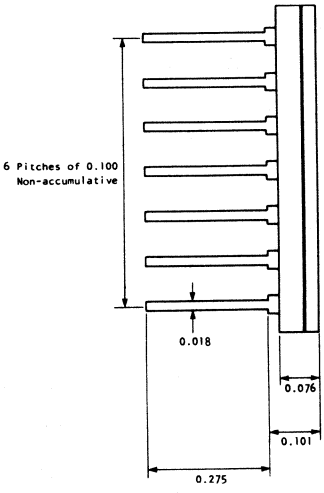


PY525

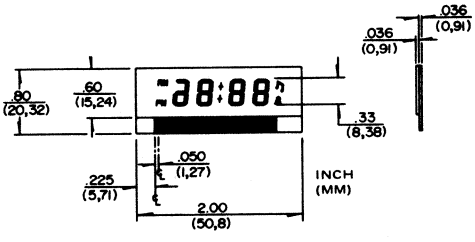


PY526

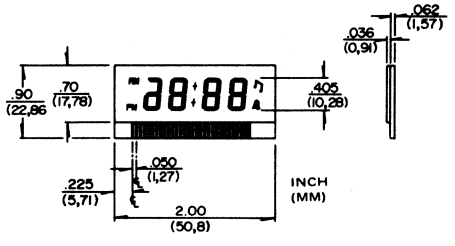


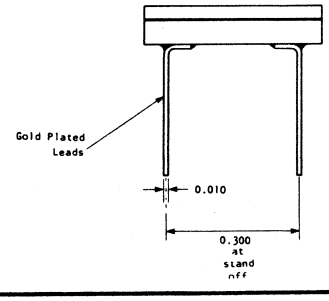


PY527

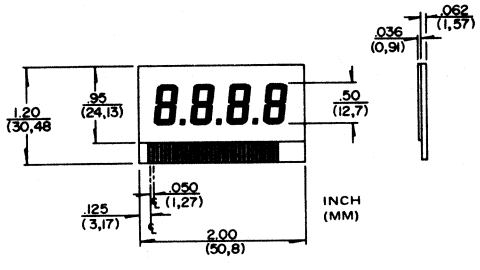


PY528

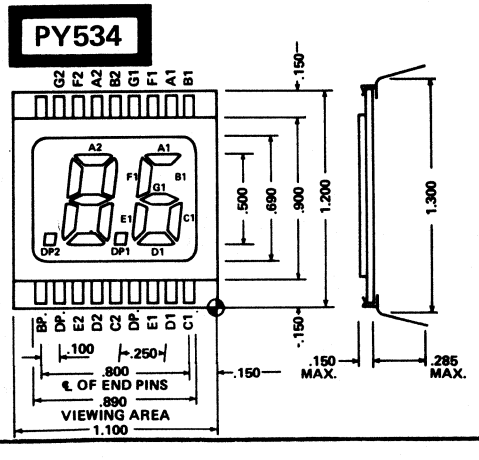




PY529



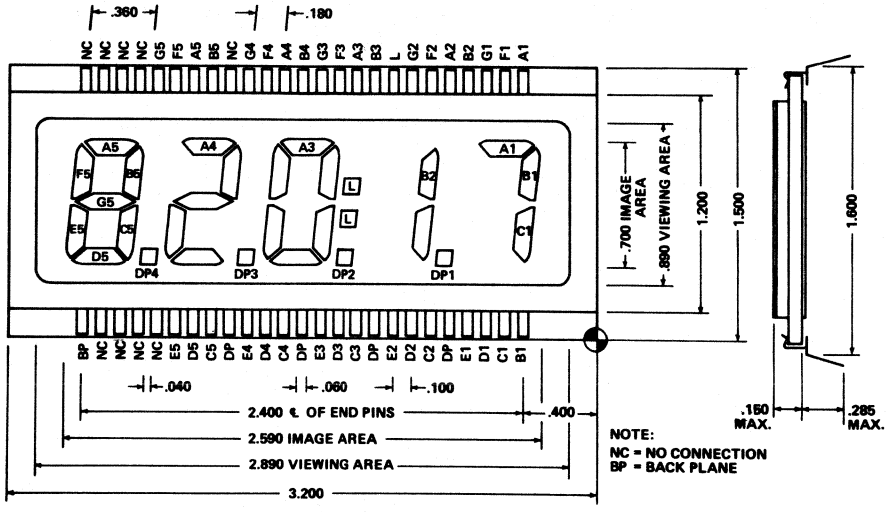
PY534



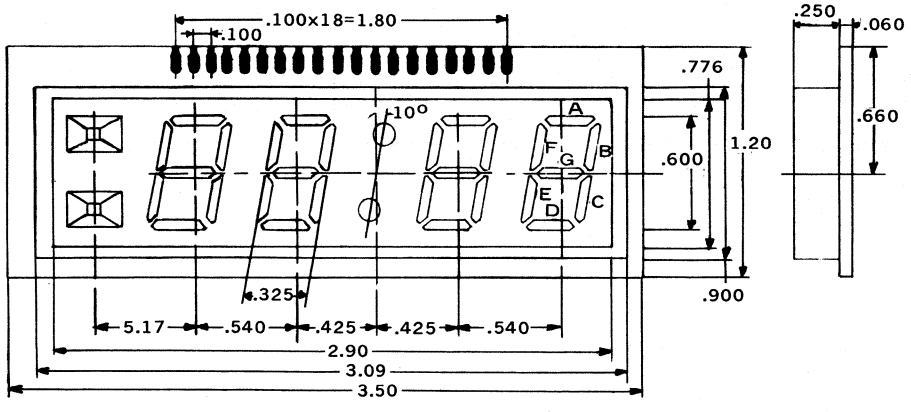
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

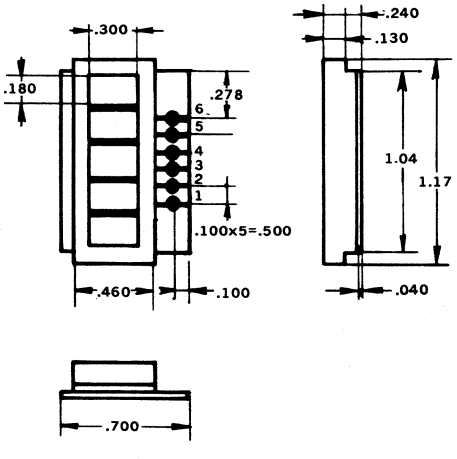
PY535



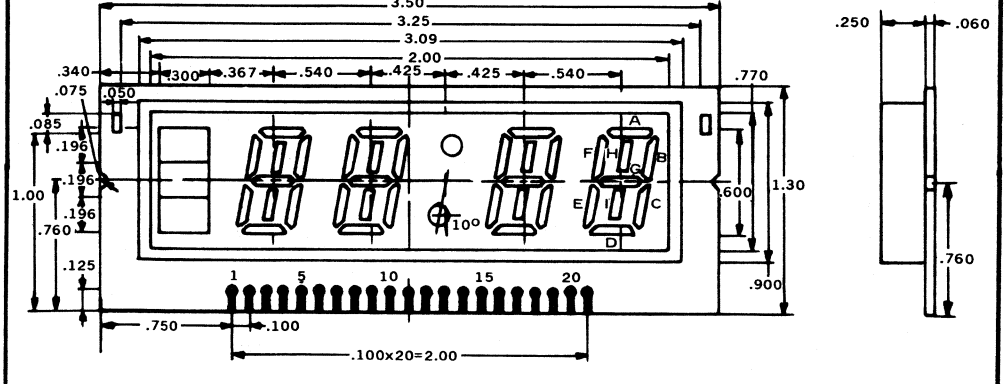
PY536



PY537



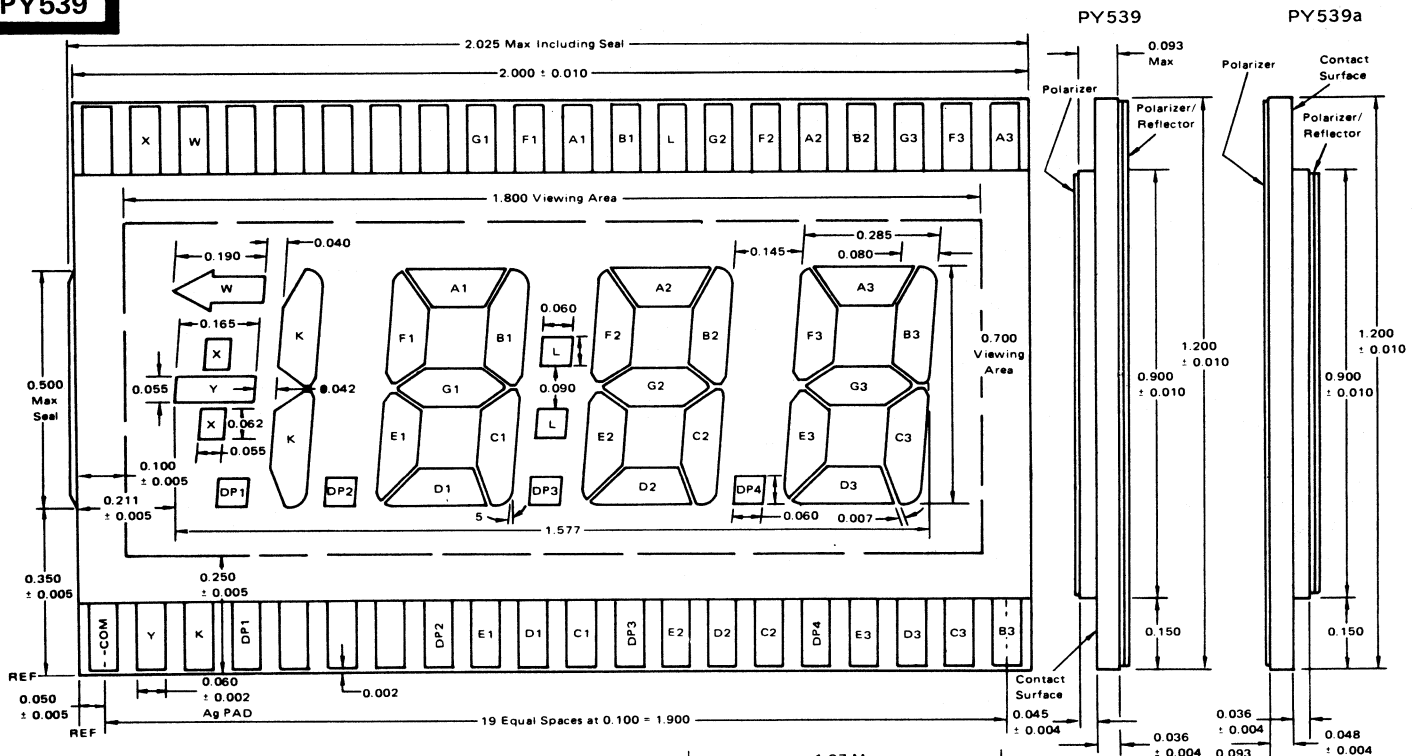
PY538



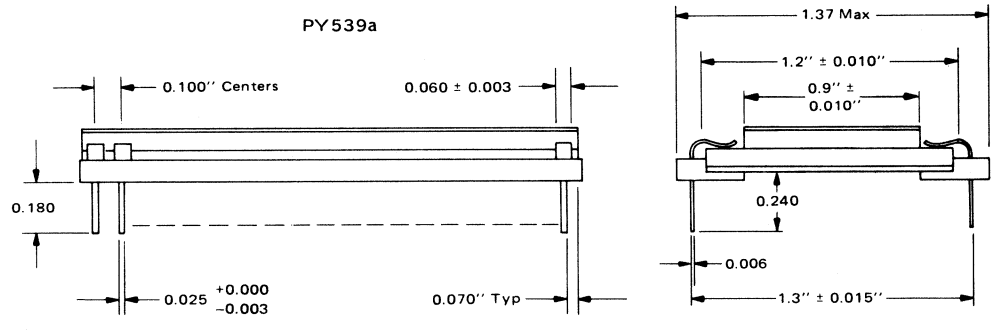
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY539

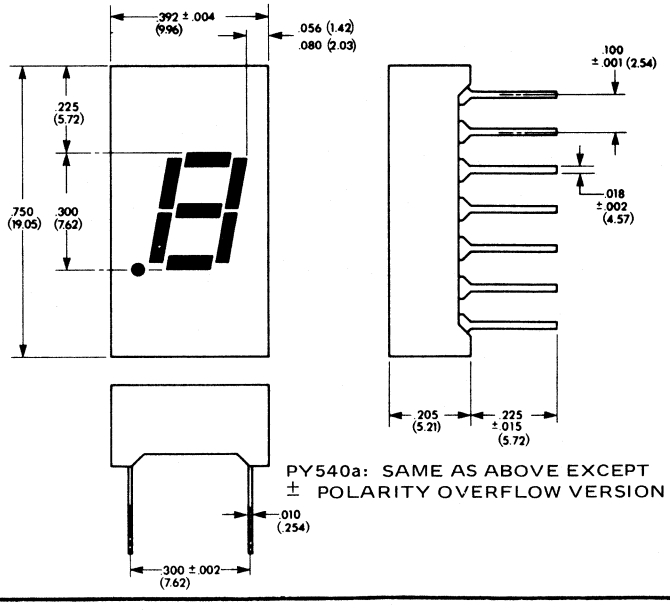


PY539a



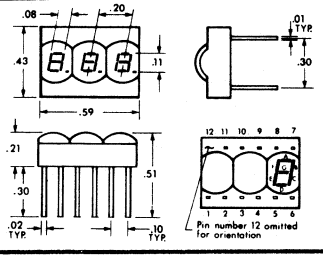
PY540

Dimensions in inches (mm)

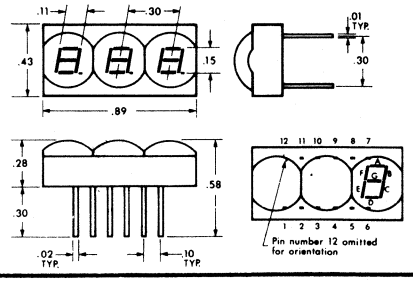


PY540a: SAME AS ABOVE EXCEPT ± POLARITY OVERFLOW VERSION

PY541



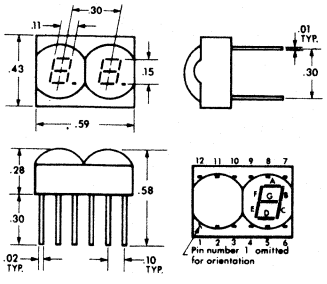
PY542



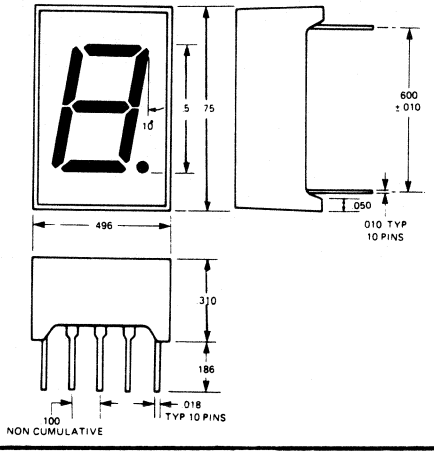
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

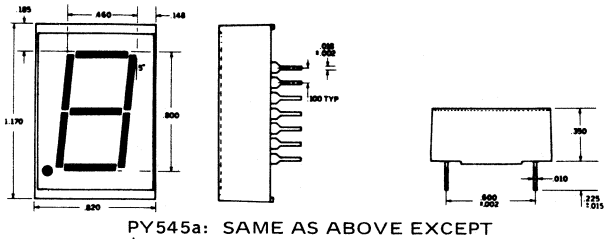
PY543



PY544

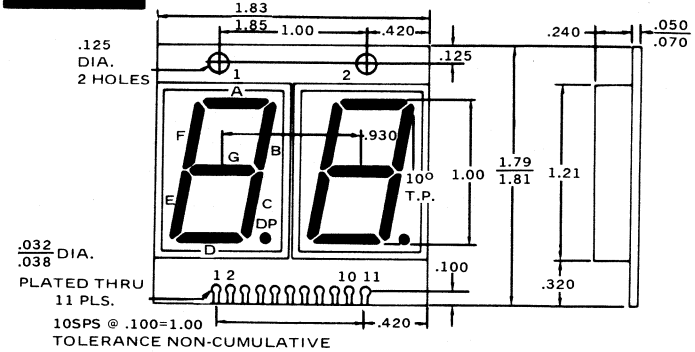


PY545

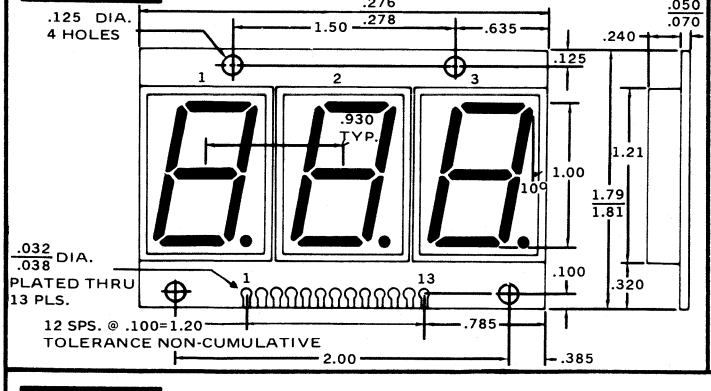


PY545a: SAME AS ABOVE EXCEPT
± POLARITY OVER FLOW VERSION

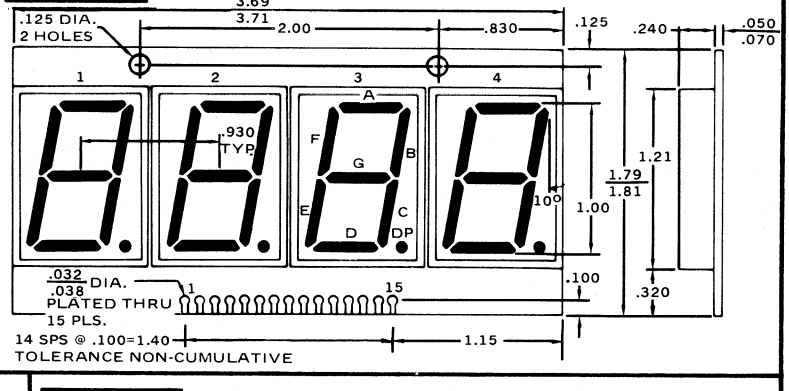
PY546



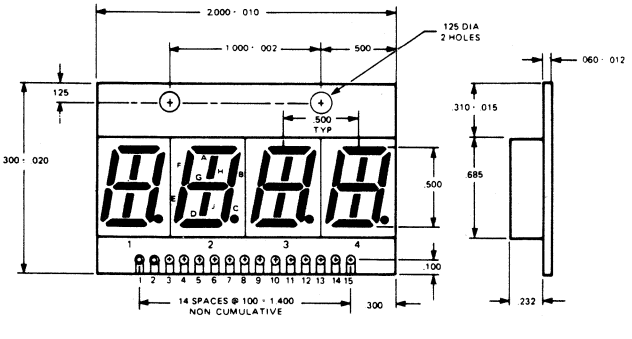
PY547



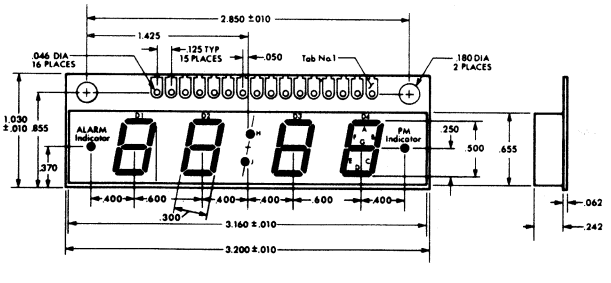
PY548



PY549



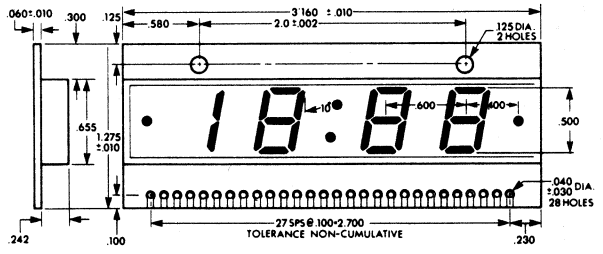
PY550



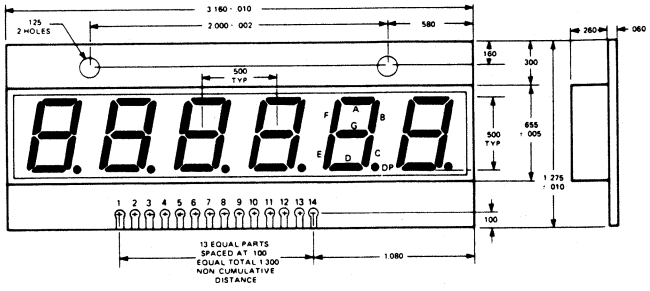
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

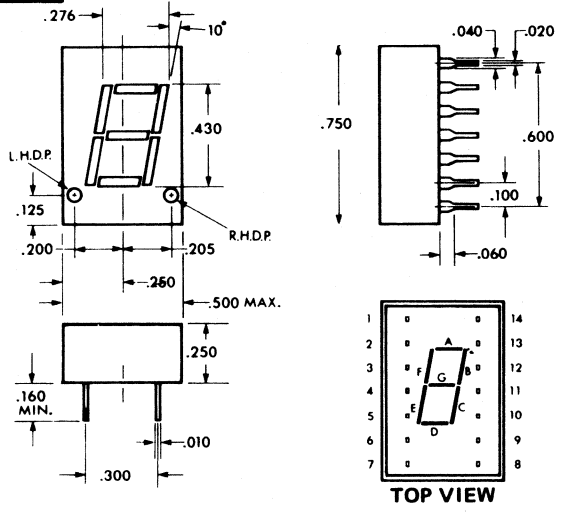
PY551



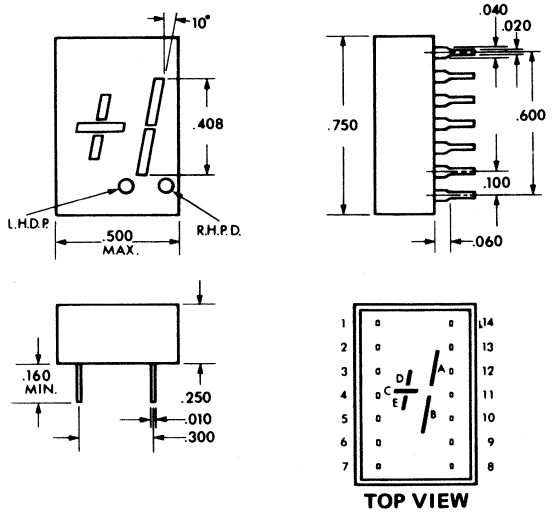
PY552



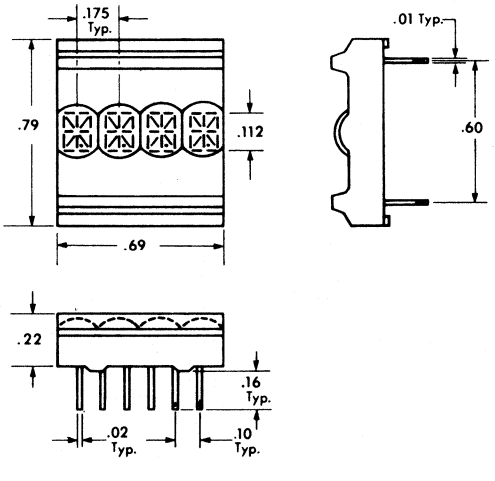
PY553



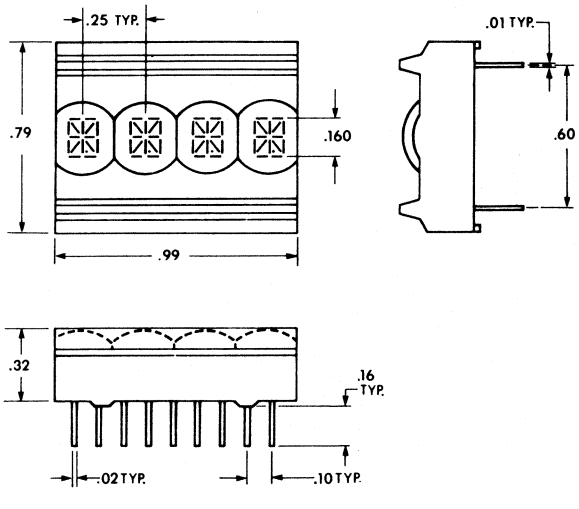
PY554



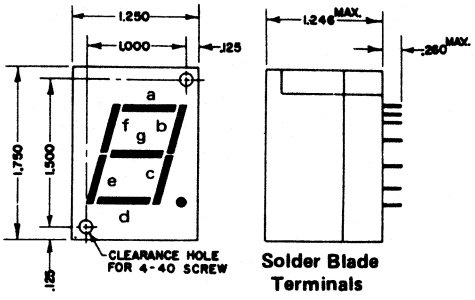
PY555



PY556



PY557

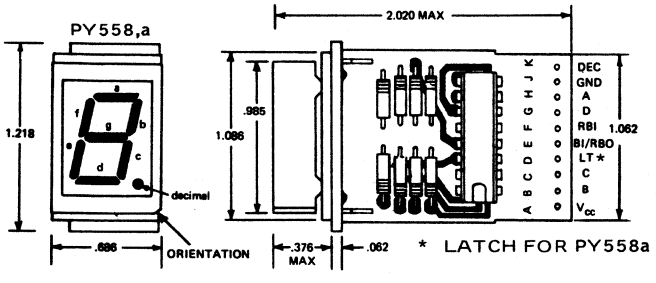


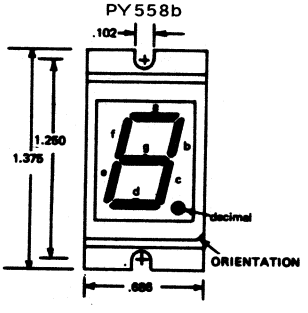
Terminal designations marked on display back.

7 Segment PY557
7 segment with Right Decimal PY557a
7 segment with Colon* PY557b
Plus/Minus PY557c
Plus/Minus with Right Decimal PY557d

*Contains upper left point only. A 7 segment with right decimal must proceed this display to form an entire colon.

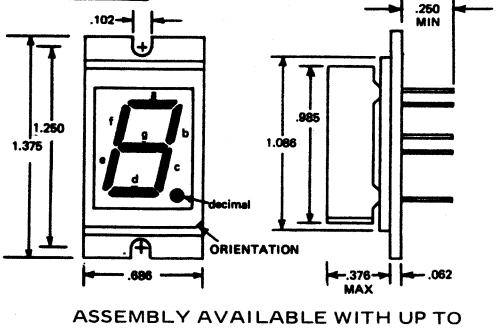
PY558



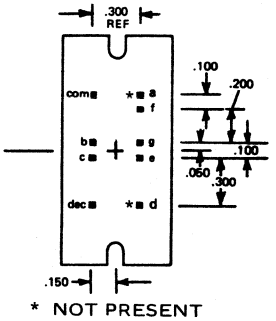


ASSEMBLY AVAILABLE WITH UP TO TEN MODULES (PY558 & PY558a ONLY)

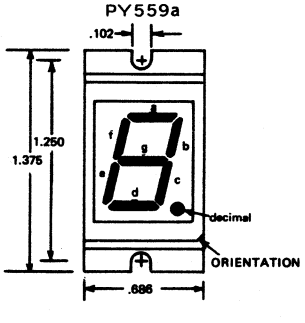
PY559

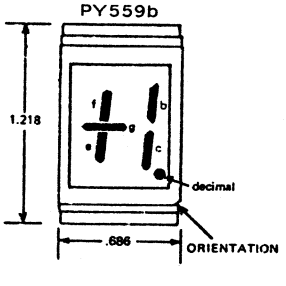


ASSEMBLY AVAILABLE WITH UP TO TEN MODULES (PY559 & PY559b ONLY)

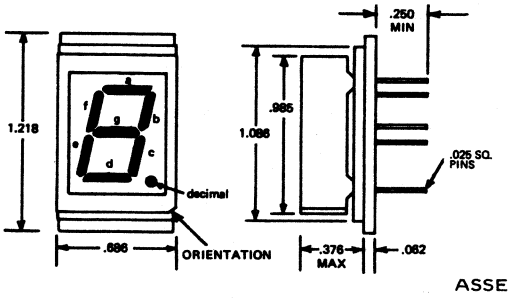


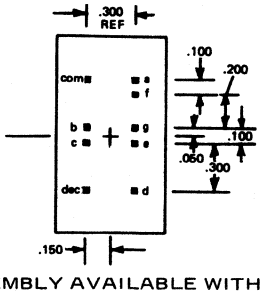
* NOT PRESENT ON PY559b





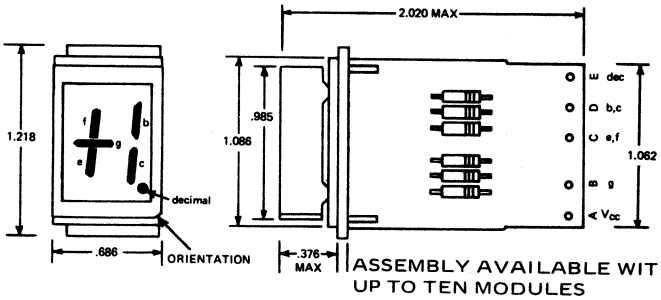
PY560





ASSEMBLY AVAILABLE WITH UP TO TEN MODULES

PY561

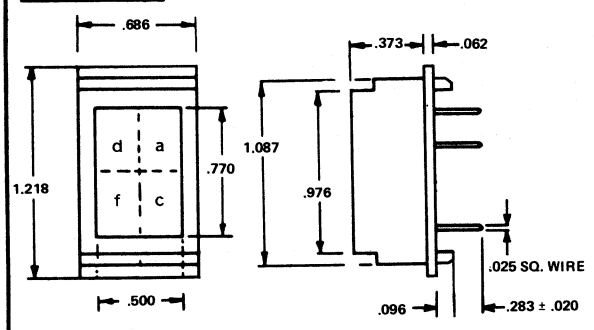


ASSEMBLY AVAILABLE WITH UP TO TEN MODULES

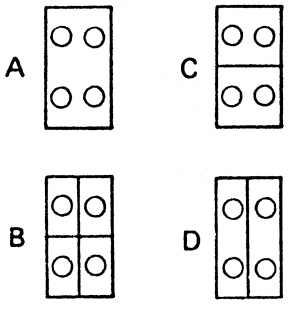
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

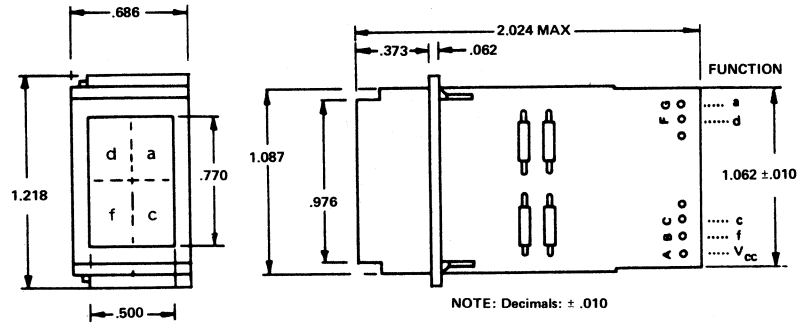
PY562



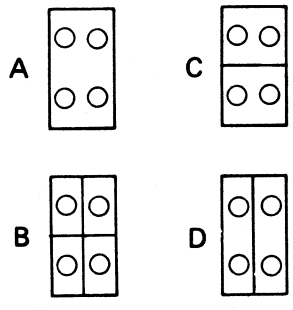
TYPICAL LIGHT CELL LAYOUTS POSSIBLE



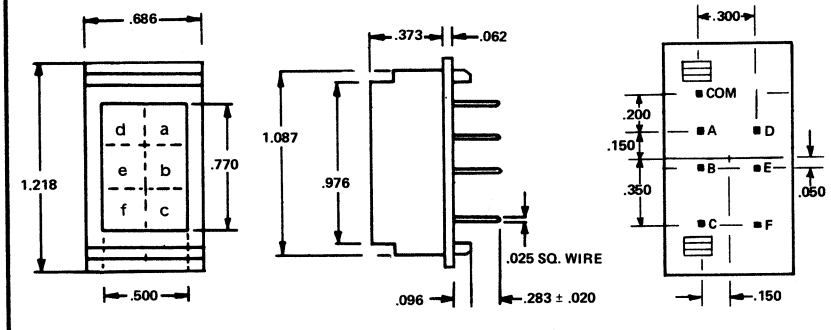
PY563



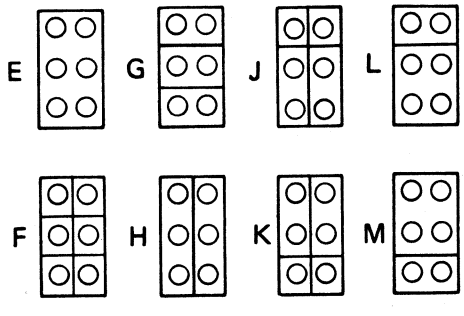
TYPICAL LIGHT CELL LAYOUTS POSSIBLE



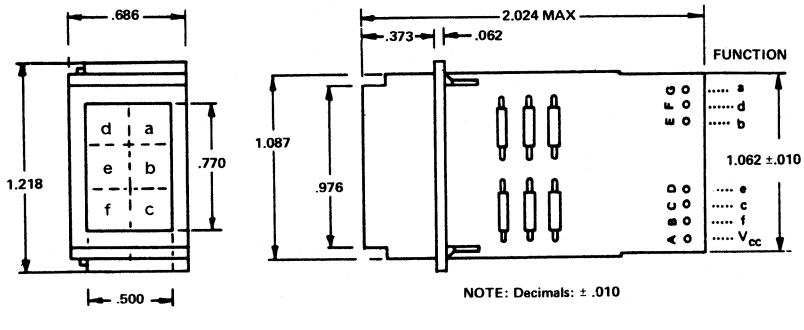
PY564



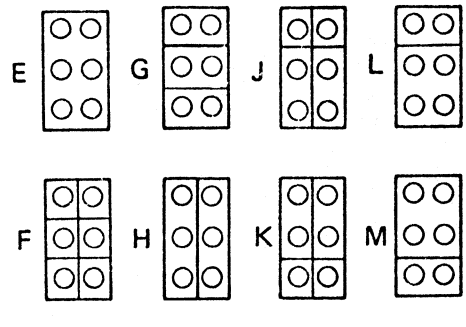
TYPICAL LIGHT CELL LAYOUTS POSSIBLE



PY565



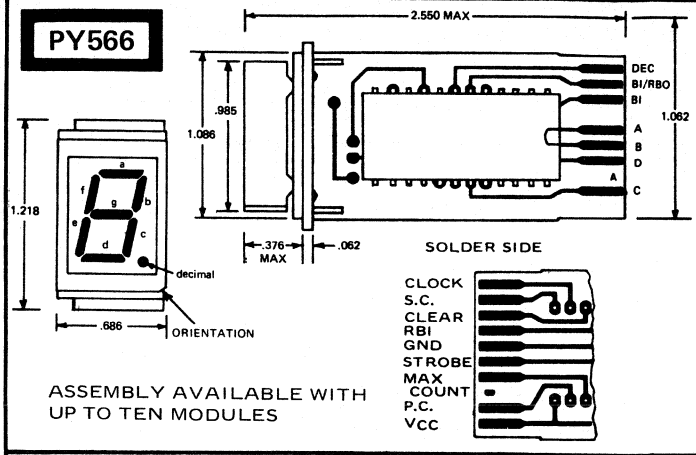
TYPICAL LIGHT CELL LAYOUTS POSSIBLE



49. OUTLINE DRAWINGS

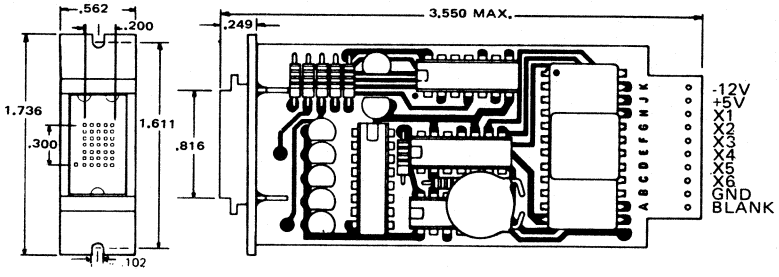
IN DRAWING NUMBER SEQUENCE

PY566

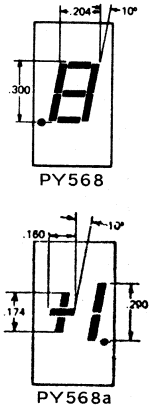


ASSEMBLY AVAILABLE WITH UP TO TEN MODULES

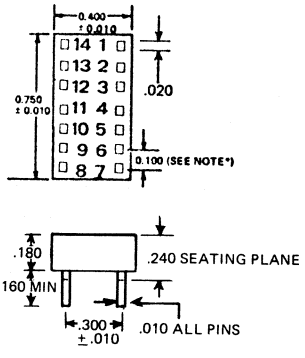
PY567



PY568



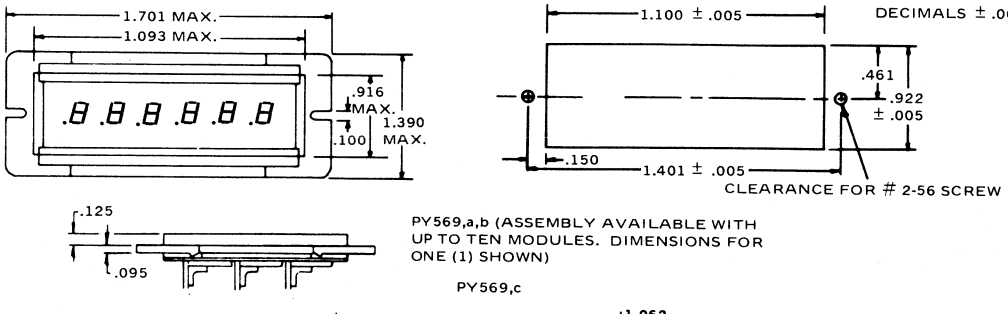
End and bottom views and terminal detail for both types



***NOTE:** The true position pin spacing is .100" between centerline. Each pin centerline is within .010" of its true longitudinal position relative to pins 4 and 11.

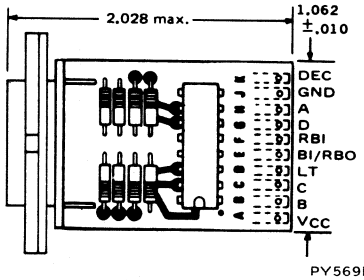
PY568: ASSEMBLY AVAILABLE WITH UP TO TEN MODULES

PY569



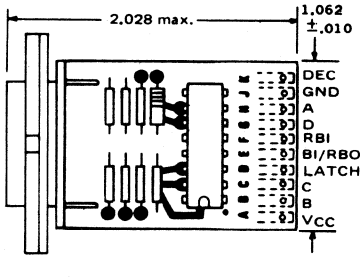
PY569,a,b (ASSEMBLY AVAILABLE WITH UP TO TEN MODULES. DIMENSIONS FOR ONE (1) SHOWN)

PY569,c

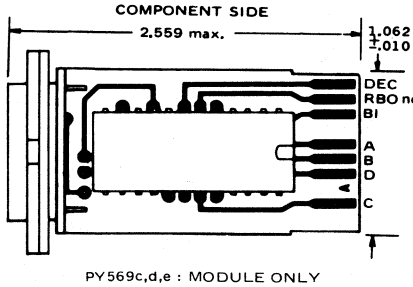


PY569b,e

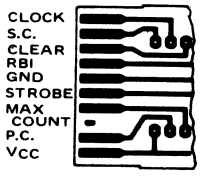
PY569a,d



COMPONENT SIDE

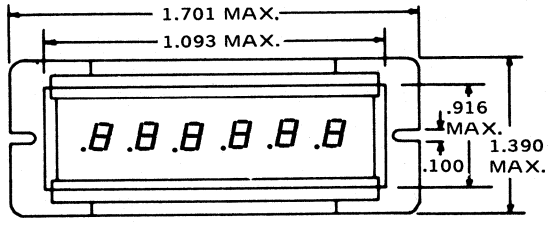


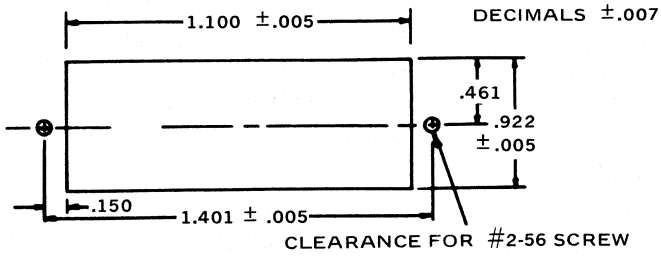
SOLDER SIDE

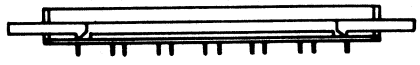


PY569c,d,e : MODULE ONLY

PY570

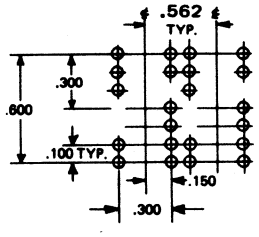


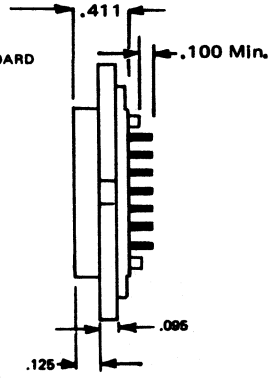




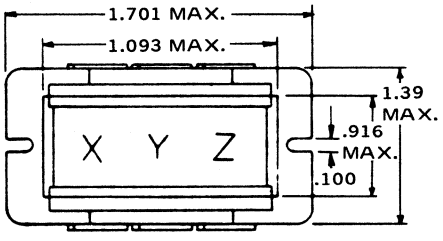
ASSEMBLY AVAILABLE WITH UP TO TEN MODULES. DIMENSIONS FOR ONE (1) SHOWN

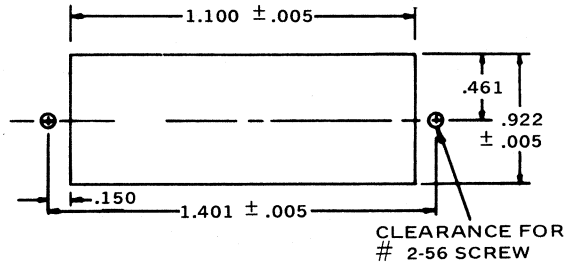
HOLE PATTERN FOR PRINTED CIRCUIT BOARD

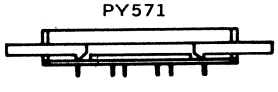


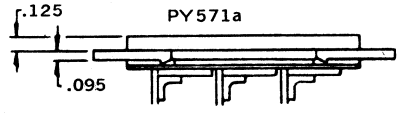


PY571

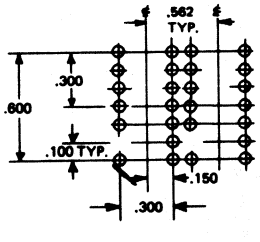


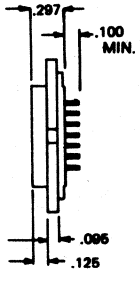


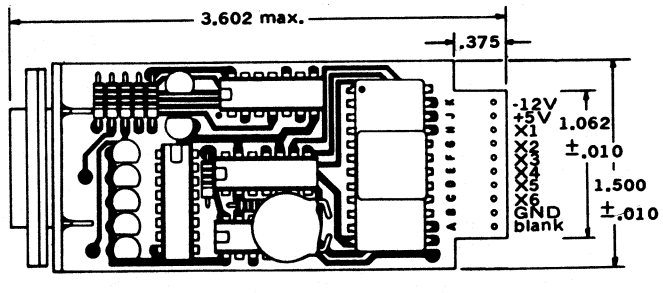




HOLE PATTERN FOR PRINTED CIRCUIT BOARD





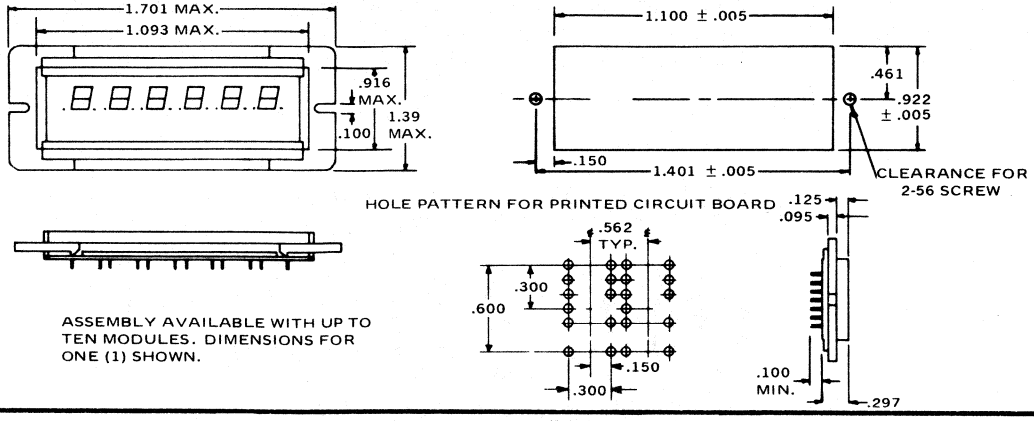


ASSEMBLY AVAILABLE WITH UP TO TEN MODULES DIMENSIONS SHOWN FOR ONE(1)

49. OUTLINE DRAWINGS

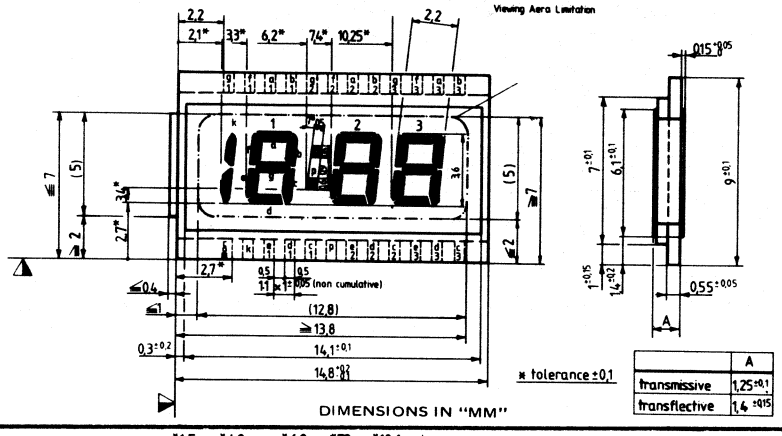
IN DRAWING NUMBER SEQUENCE

PY572



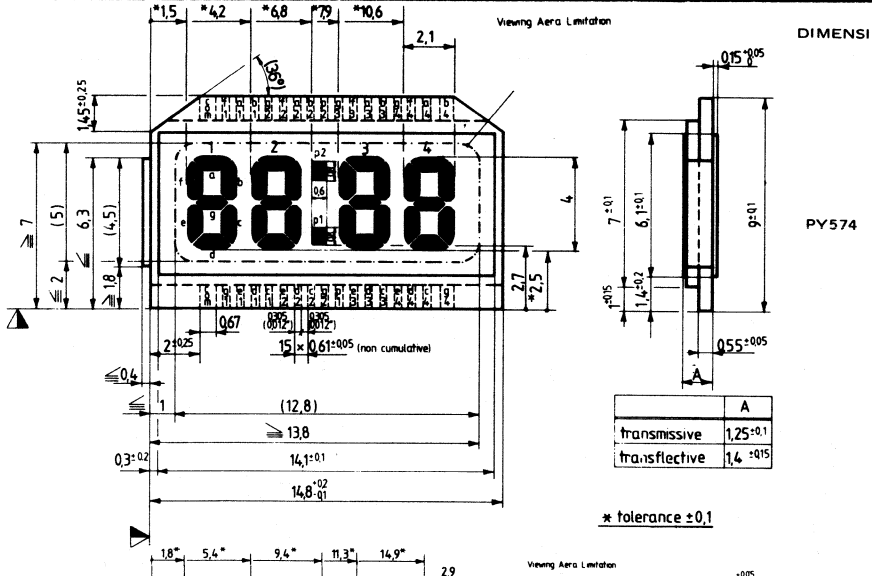
ASSEMBLY AVAILABLE WITH UP TO TEN MODULES. DIMENSIONS FOR ONE (1) SHOWN.

PY573

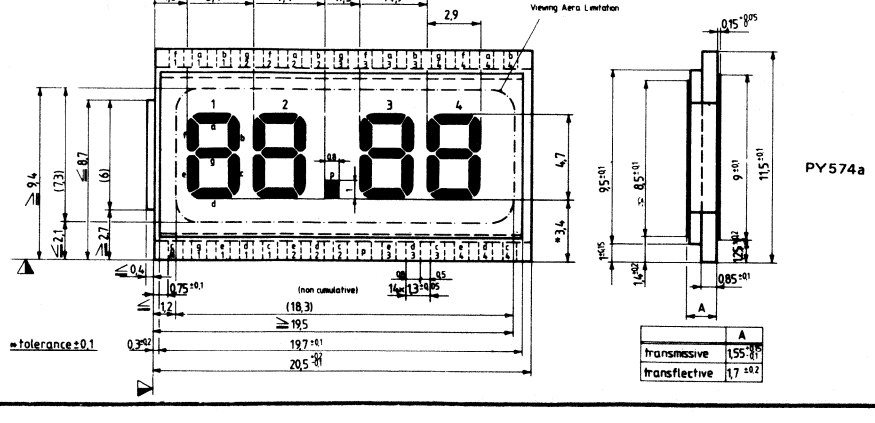


	A
transmissive	1,25±0,1
transflective	1,4 ±0,15

PY574

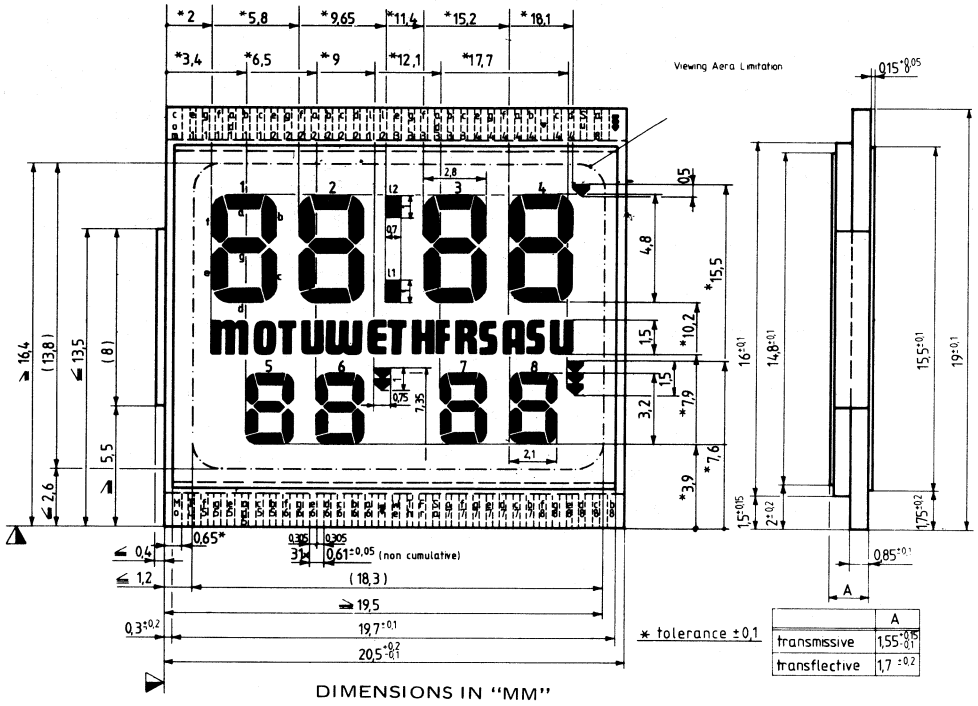


	A
transmissive	1,25±0,1
transflective	1,4 ±0,15



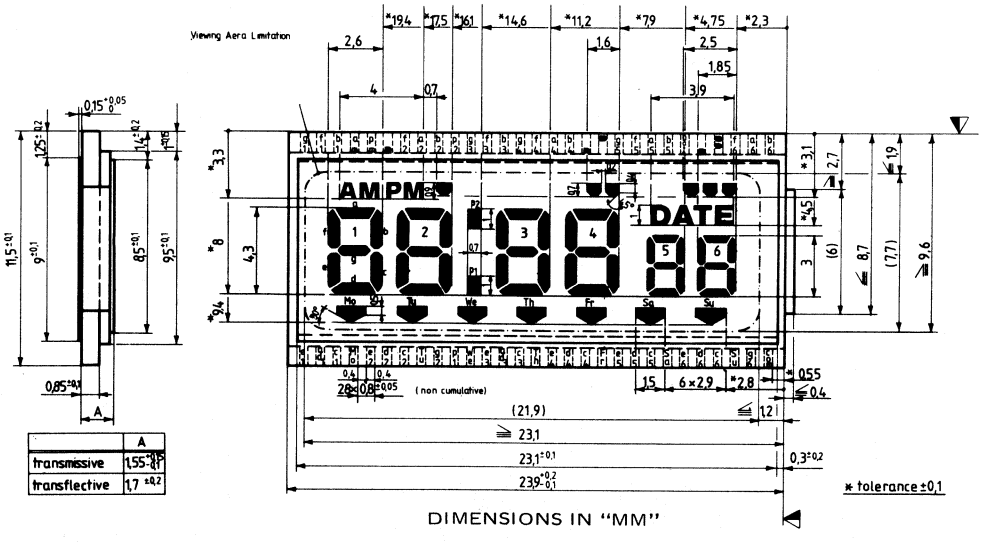
	A
transmissive	1,55
transflective	1,7 ±0,2

PY575



	A
transmissive	1,55
transflective	1,7 ±0,2

PY577

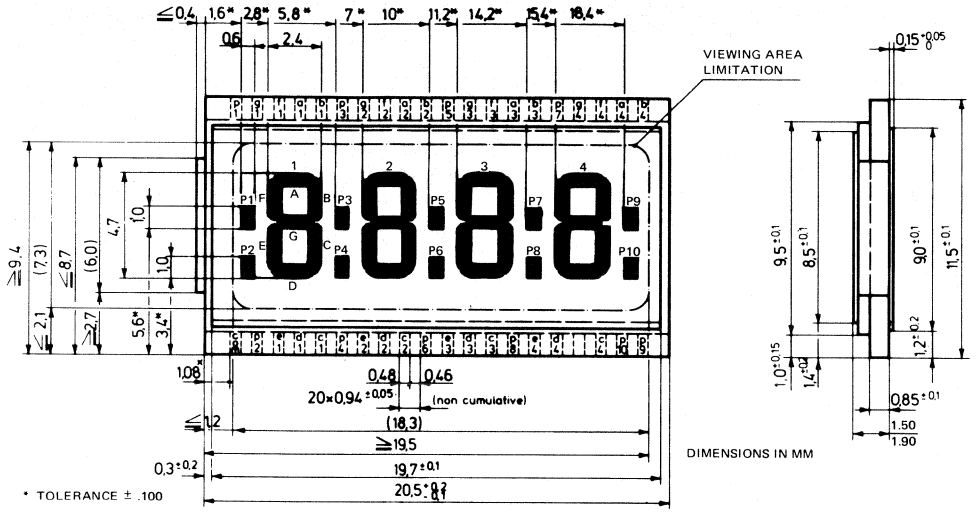


	A
transmissive	1,55
transflective	1,7 ±0,2

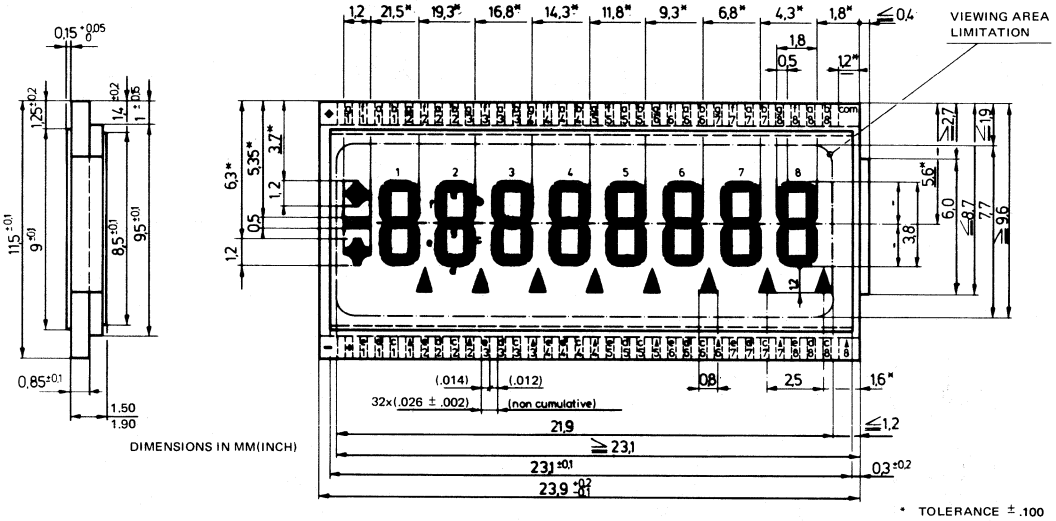
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

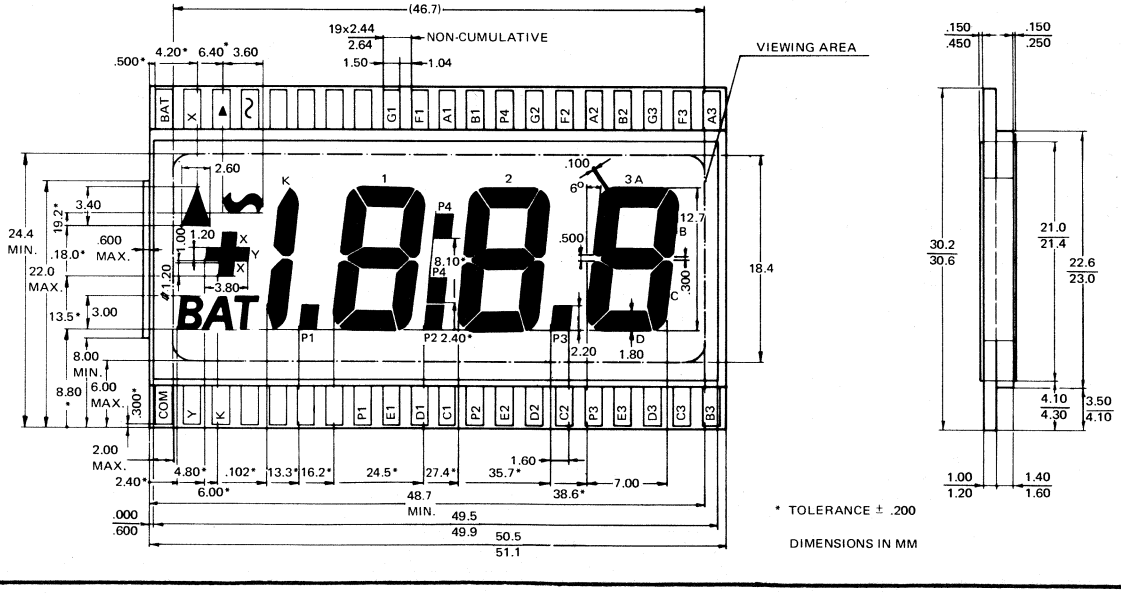
PY578



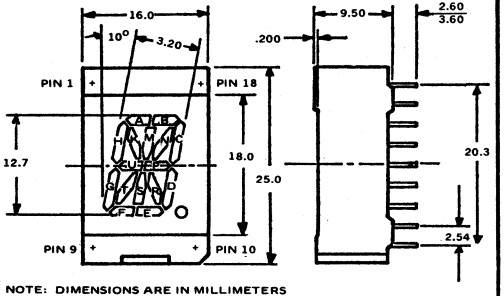
PY579



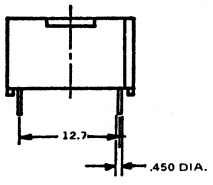
PY580



PY581



NOTE: DIMENSIONS ARE IN MILLIMETERS



PY582

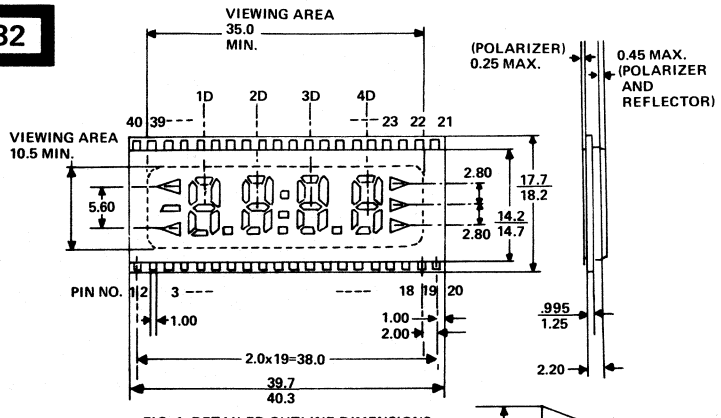
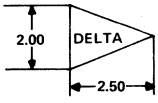


FIG. 1 DETAILED OUTLINE DIMENSIONS
MM(INCH)



PIN NO.	SEGMENT	PIN NO.	SEGMENT
1	COMMON	21	DELTA-3
2	MINUS	22	4D-b
3	DELTA-2	23	4D-a
4	1D-e	24	4D-f
5	1D-d	25	4D-g
6	1D-c	26	3D-b
7	2D-dp	27	3D-a
8	2D-c	28	3D-f
9	2D-d	29	3D-g
10	2D-c	30	COLON
11	3D-dp	31	2D-b
12	3D-e	32	2D-a
13	3D-d	33	3D-f
14	3D-c	34	2D-g
15	4D-dp	35	1D-b
16	4D-e	36	1D-a
17	4D-d	37	1D-f
18	4D-c	38	1D-g
19	DELTA-5	39	DELTA-1
20	DELTA-4	40	COMMON

FIG. 2 PIN CONNECTIONS

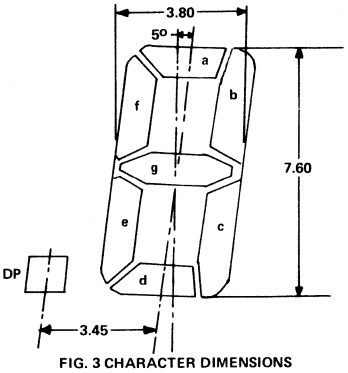
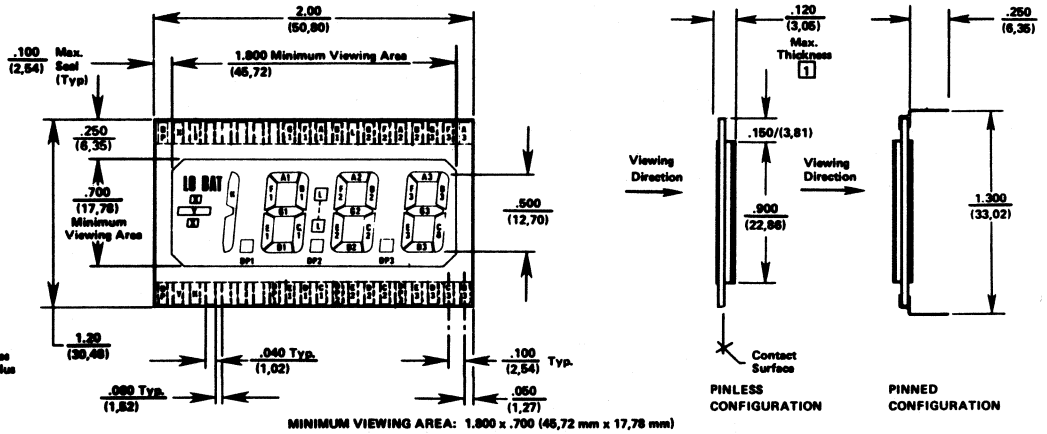


FIG. 3 CHARACTER DIMENSIONS

PY583



PINLESS CONFIGURATION

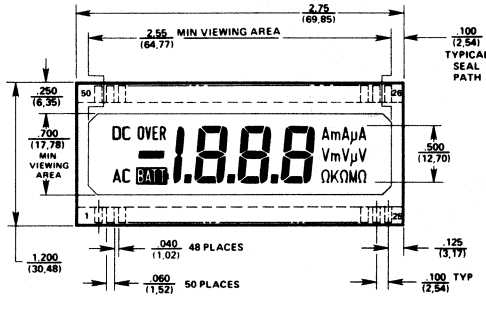
PINNED CONFIGURATION

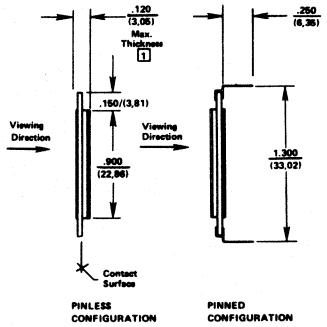
NOTES

1. Maximum thickness includes front and back polarizers plus reflector attached.
2. Dimensions: Inches (mm)

MINIMUM VIEWING AREA: 1.800 x .700 (45,72 mm x 17,78 mm)

PY584





PINLESS CONFIGURATION

PINNED CONFIGURATION

NOTES

1. Maximum thickness includes front and back polarizers plus reflector attached.
2. Dimensions: Inches (mm)

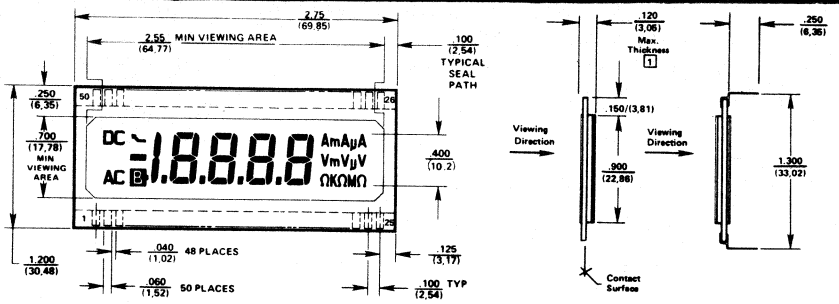
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Segment	BP	N/C	AC	–	N/C	BAT	h	dp1	E1	D1	C1	dp2	E2	D2	C2	dp3	E3	D3	C3	NC	V	mV	Ω	kΩ	MΩ

Pin No.	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Segment	μV	μA	mA	A	B3	N/C	A3	F3	G3	B2	A2	F2	G2	B1	A1	F1	G1	N/C	N/C	N/C	OV	DC	N/C	N/C	BP

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY585



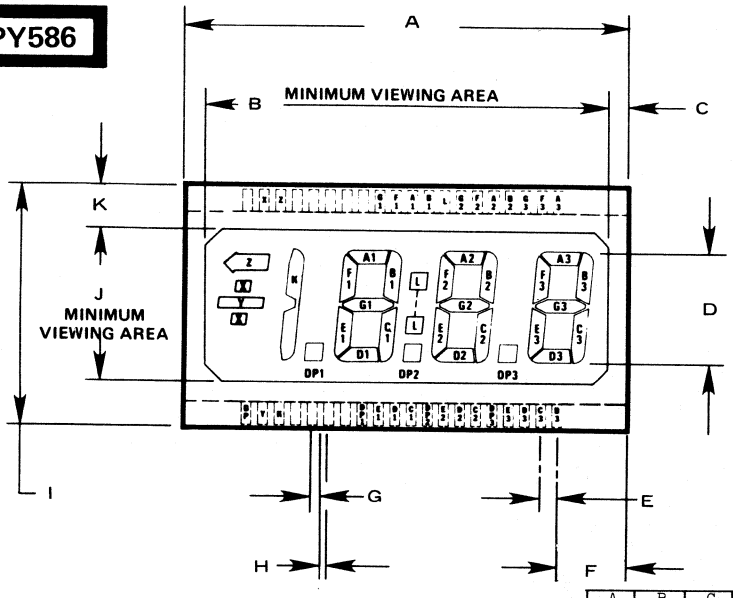
NOTES

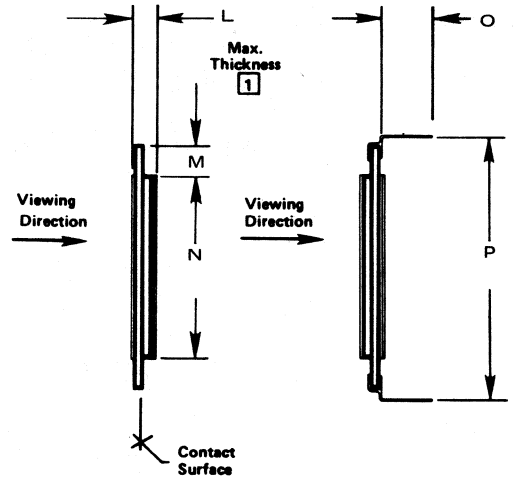
1. Maximum thickness includes front and back polarizers plus reflector attached.
2. Dimensions: Inches (mm)

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Segment	BP	N/C	AC	Minus	BAT	h	dp1	E1	D1	C1	dp2	E2	D2	C2	dp3	E3	D3	C3	dp4	E4	D4	C4	Ω	KΩ	MΩ

Pin No.	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Segment	μV	mV	μA	mA	A	V	B4	A4	F4	G4	B3	A3	F3	G3	B2	A2	F2	G2	B1	A1	F1	G1	Arrow	DC	BP

PY586





PINLESS CONFIGURATION — PINNED CONFIGURATION

NOTES

1. Maximum thickness includes front and back polarizers plus reflector attached.

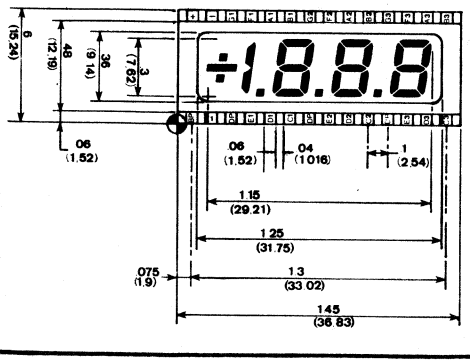
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
PY586	2.75	2.50 MIN	.125	.700	.100	.430	.060	.040	1.50	.950	.275	.120	.150	1.20	.250	1.60
PY586a	3.69	3.45 MIN	.125	1.00	.100	.900	.060	.040	1.80	1.25	.275	.120	.150	1.50	.250	1.90

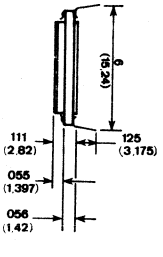
FOR PY586a ONLY

Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Segment	BP	N/C	N/C	N/C	E1	D1	C1	dp1	E2	D2	C2	dp2	E3	D3	C3	dp3	E4	D4	C4	B4

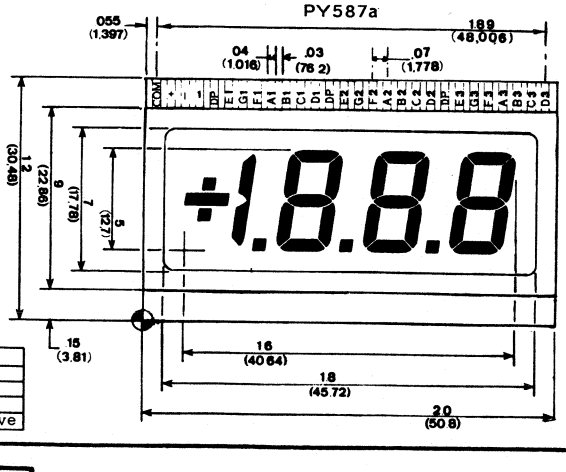
Pin No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Segment	A4	F4	G4	B3	A3	F3	G3	L	B2	A2	F2	G2	N/C	B1	A1	F1	G1	N/C	N/C	N/C

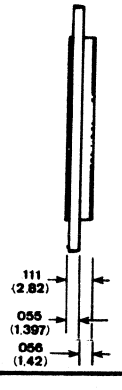
PY587





MODE		
	#1	Reflective
	#2	Transmissive
	#3	Transflective
	#4	Diffused Reflective
	#5	Diffused Transflective

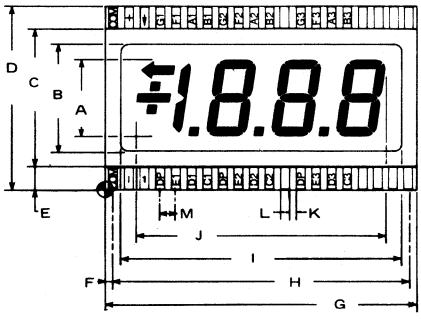


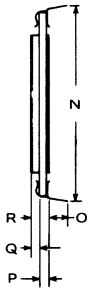


49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY588



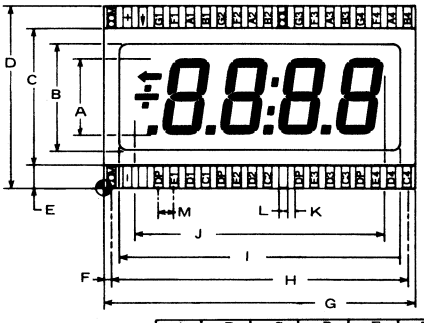


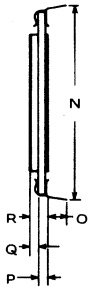
MODEL	#1	Reflective
	#2	Transmissive
	#3	Transflective
	#4	Diffused Reflective
	#5	Diffused Transflective

} EXCEPT PY588d

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
PY588	.500	.700	.900	1.20	.150	.050	2.00	1.90	1.80	1.60	.040	.060	.100	1.30	.125	.056	.055	.111
PY588a	.600	.800	1.00	1.20	.100	.174	2.25	2.05	1.90	1.85	.040	.060	.100	1.30	.125	.056	.055	.111
PY588b	.750	1.00	1.20	1.50	.150	.550	3.00	2.80	2.55	1.90	.040	.060	.100	1.30	.125	.056	.055	.111
PY588c	1.00	1.30	1.50	1.80	.150	1.05	4.00	3.80	3.50	1.90	.040	.060	.100	1.90	.125	.056	.055	.111
PY588d	.700	1.00	1.20	1.50	.150	.100	2.75	2.55	2.35	1.90	.040	.060	.100	1.60	.125	.056		.111

PY589

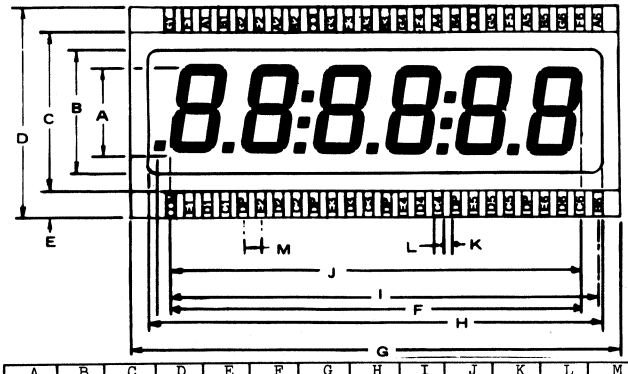


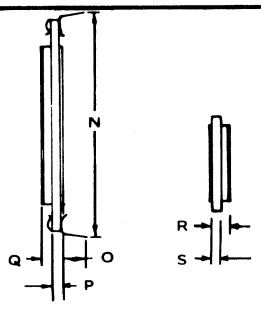


MODEL	#1	Reflective
	#2	Transmissive
	#3	Transflective
	#4	Diffused Reflective
	#5	Diffused Transflective

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
PY589	.500	.700	.900	1.20	.150	.050	2.00	1.90	1.80	1.60	.040	.060	.100	1.30	.125	.056	.055	.111
PY589a	1.00	1.30	1.50	1.80	.150	1.05	4.00	3.80	3.50	1.90	.040	.060	.100	1.90	.125	.056	.055	.111
PY589b	.600	.800	1.00	1.20	.100	.100	2.25		2.05	1.90	.040	.060	.100	1.30	.125		.055	.111
PY589c	.750	1.00	1.20	1.50	.150	.550	3.00	2.80	2.55	1.90	.040	.060	.100	1.60	.125	.056	.055	.111
PY589d	.300	.360	.480	.600	.060	.050	2.00	1.90	1.80	1.40	.040	.060	.100	.600	.125	.056	.055	.111

PY590



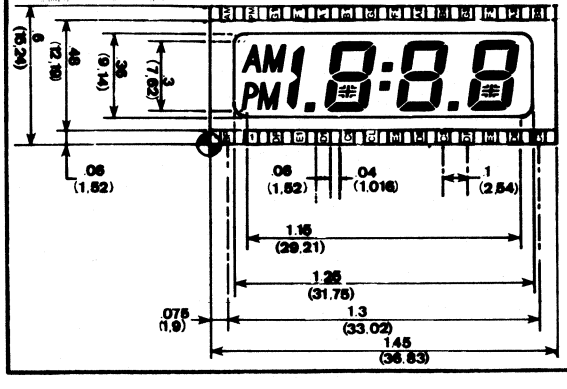


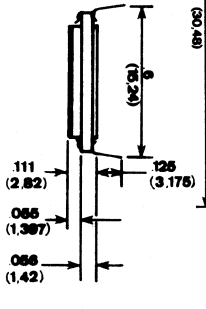
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
PY590	.500	.700	.900	1.20	.150		2.75	2.55	2.40	2.30	.040	.060	.100	1.30	.125	.056	.111		
PY590a	.700	1.00	1.20	1.50	.150		3.70	3.50	3.30	2.40	.040	.060	.100	1.60	.125	.056	.111		
PY590b	.300	.360	.480	.600	.150	1.67	2.00	1.87			.030	.045	.075					.111	.055

PY591

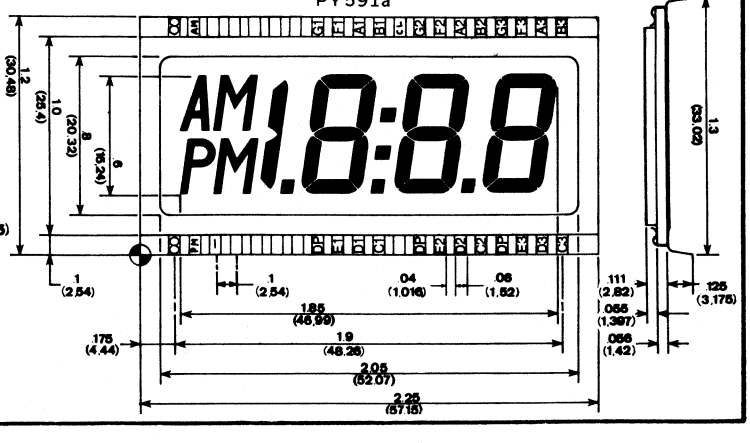
Note: Dimensions are in inches and (millimeters)

PY591





PY591a



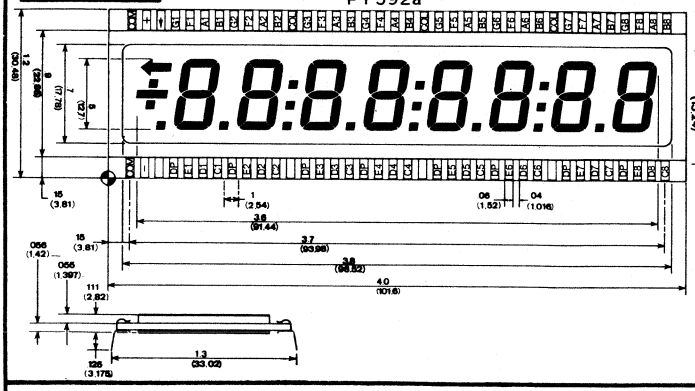
49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

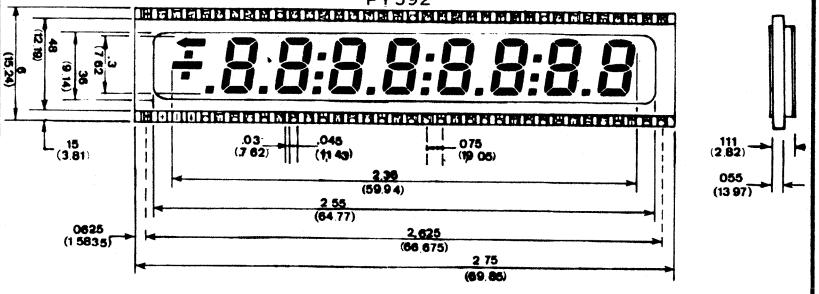
PY592

MODE		
M	#1	Reflective
O	#2	Transmissive
D	#3	Transflective
E	#4	Diffused Reflective
	#5	Diffused Transflective

PY592a



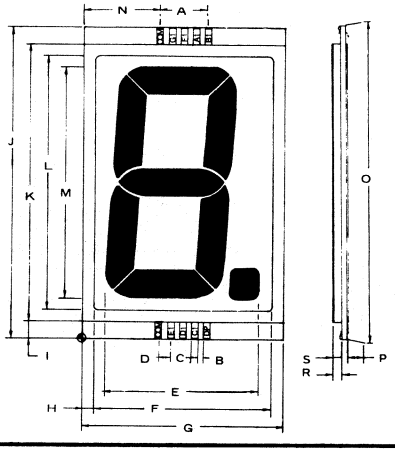
PY592



PY593

MODE		
M	#1	Reflective
O	#2	Transmissive
D	#3	Transflective
E	#4	Diffused Reflective
	#5	Diffused Transflective

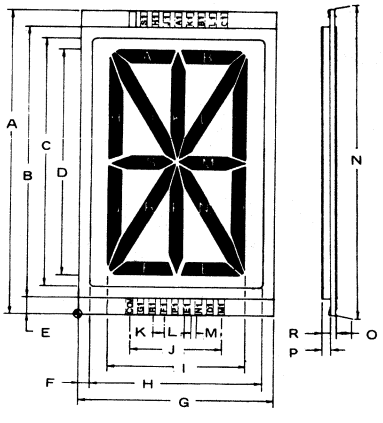
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S
PY593	.400	.040	.060	.100	1.30	1.50	1.70	.100	.150	2.70	2.40	2.20	2.00	.650	2.80	.125	.055	.111
PY593a	.400	.040	.060	.100	1.80	1.90	2.10	.100	.150	3.70	3.40	3.20	3.00	.850	3.80	.125	.055	.111



PY594

MODE		
M	#1	Reflective
O	#2	Transmissive
D	#3	Transflective
E	#4	Diffused Reflective
	#5	Diffused Transflective

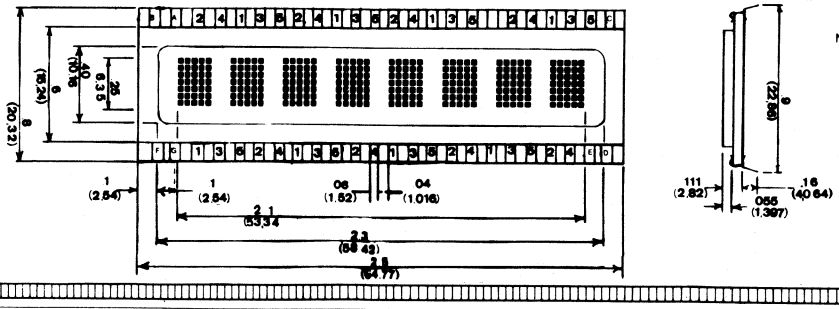
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R
PY594	2.70	2.40	2.20	2.00	.150	.100	1.70	1.50	1.20	.800	.100	.060	.040	2.80	.125	.055	.111
PY594a	3.70	3.40	3.20	3.00	.150	.100	2.10	1.90	1.80	.800	.100	.060	.040	3.80	.125	.055	.111



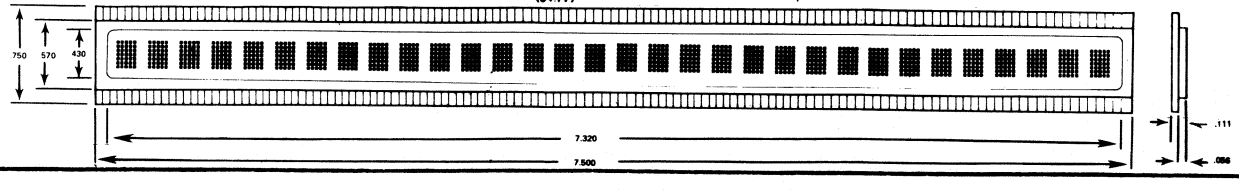
PY595

Note: Dimensions are in inches and (millimeters)

PY595



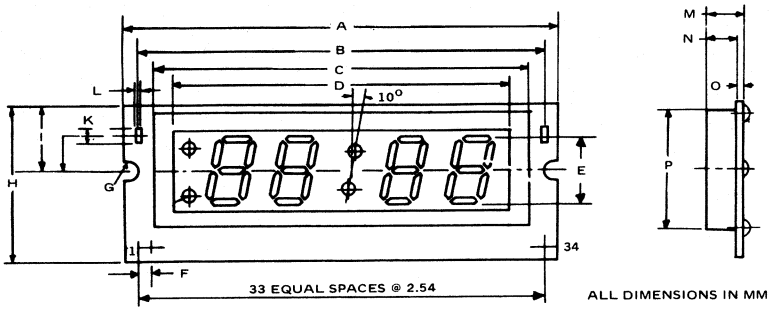
PY595a



49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY596



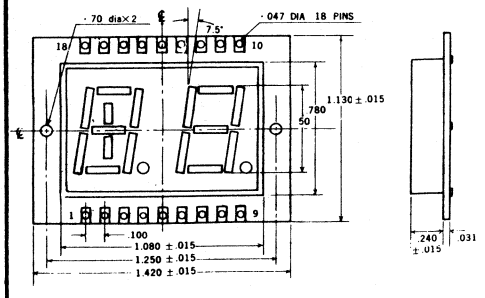
ALL DIMENSIONS IN MM

*Tolerance ±0.5

**Tolerance 0.6
-0.3

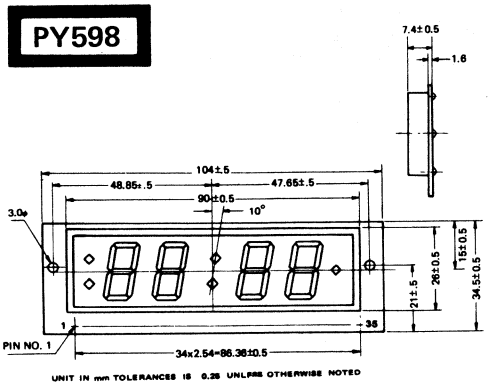
	A*	B*	C*	D	E	F	G	H*	I	J*	K*	L	M**	N	O	P*	PIN QTY
PY596	3.54	3.31	3.07	2.79	.600	.100	.072	1.30	.541	.295	.118	.047	.311	.248	.062	.944	34
PY596a	3.54	3.31	3.07	2.75	.600	.100	.072	1.30	.541	.295	.118	.047	.311	.248	.062	1.06	34
PY596b	3.62	3.38	3.32	2.75	.600	.100	.130	1.00	.409	.590	.125	.047	.303		.062	.708	35
PY596c	3.62	3.38	3.32	2.83	.600	.100	.130	1.03	.433	.590	.125	.047	.303		.062	.748	35
PY596d	3.70	3.31	3.07	2.75	.600	.100	.072	1.30	.541	.295	.118	.047	.311	.248	.062	.944	35
PY596e	3.62	3.38	3.32	2.83	.600	.100	.130	1.03	.433	.590	.125	.047	.303		.062	.748	35
PY596f	3.22		3.09	2.83	.600	.100		1.00	.433				.303		.062	.748	18
PY596g	3.62	3.38	3.32	2.83	.600	.100	.130	1.03	.433		.125	.047	.303		.062	.748	28
PY596h	3.62	3.38	3.32	2.83	.600	.100	.130	1.03	.433		.125	.047	.303		.062	.748	30
PY596m	3.54	3.38	3.32	2.83	.600	.100	.072	1.30	.541	.295	.118	.047	.311		.062	.944	18

PY597

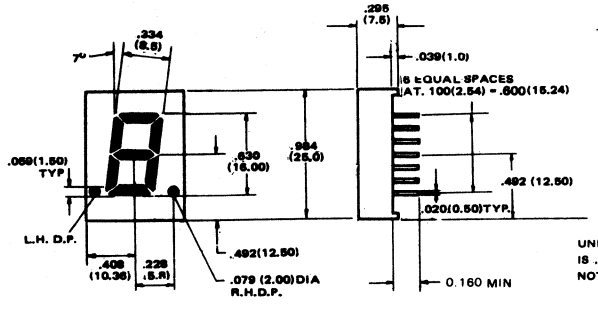


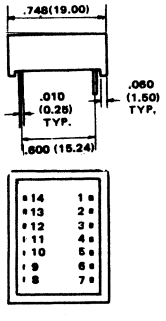
NOTE: UNIT IN INCH
TOLERANCES IS +.010 UNLESS OTHERWISE NOTED.

PY598

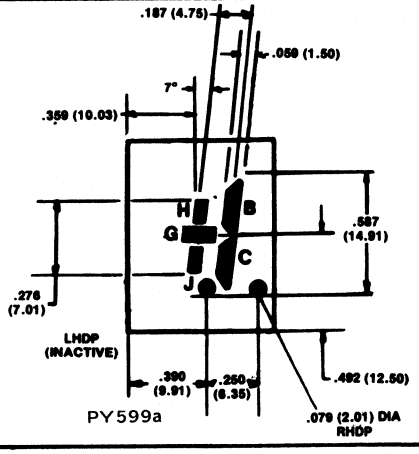


PY599



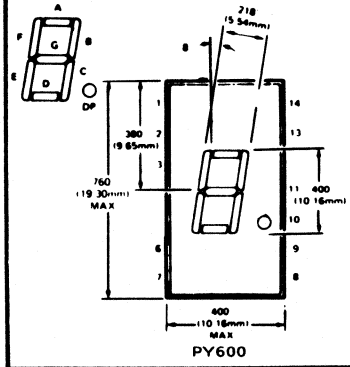


UNIT IN INCH(mm) TOLERANCES IS .010(.25) UNLESS OTHERWISE NOTED

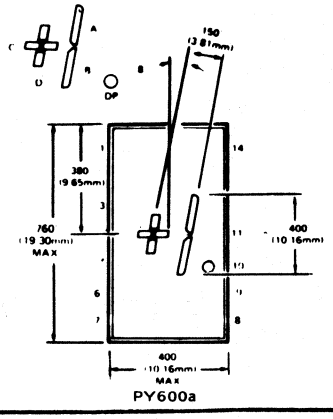


PY599a

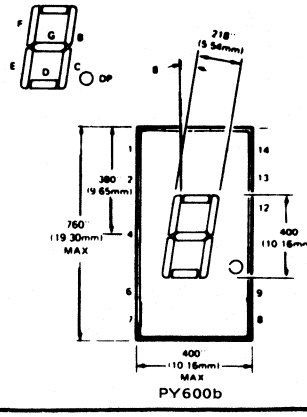
PY600



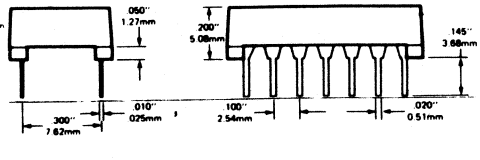
PY600



PY600a



PY600b



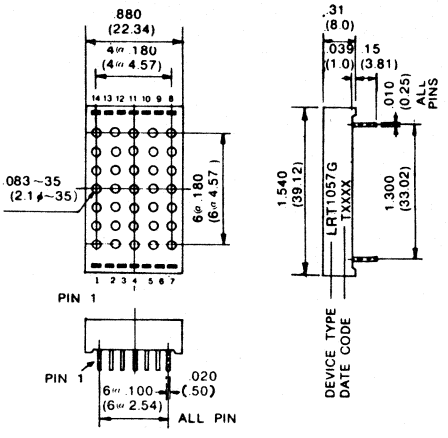
TOLERANCE: .015" (.381mm)
LEADS ARE TIN/LEAD SOLDER DIPPED

All dimensions are in inches and (millimeters). Specifications subject to change without notice.

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

PY601

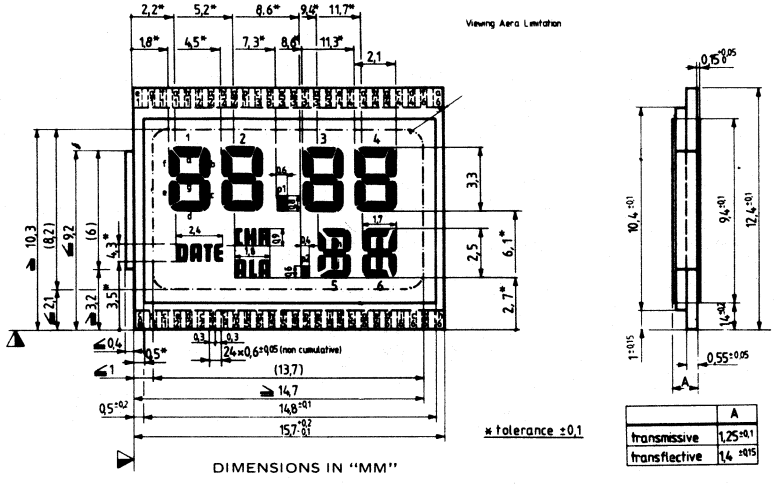


The true-position pin spacing is 0.100 (2.540 MM) between centerlines. Each pin centerline is located within ±0.010 (± .254 mm) of its true longitudinal position relative to pins 4 and 11.

Vertical and horizontal spacing between centerlines of rows and columns is nominally .180 (4.57mm).

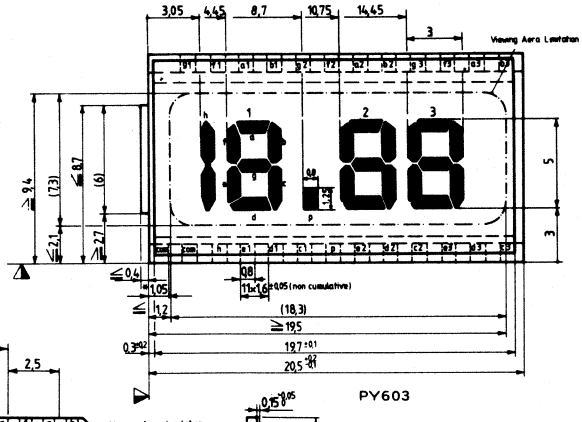
All dimensions are in inches and (millimeters). Specifications subject to change without notice.

PY602

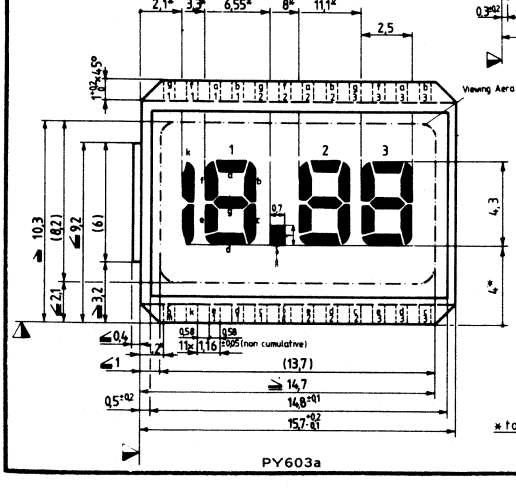


	A
transmissive	1,25 ±0.1
transflective	1,4 ±0.15

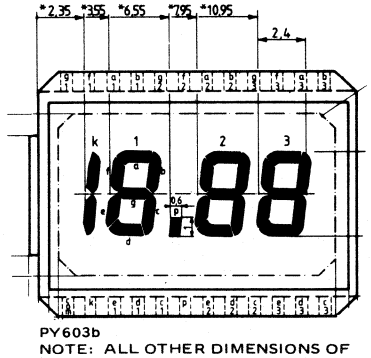
PY603



	A
transmissive	1,55 ±0.1
transflective	1,7 ±0.2



	A
transmissive	1,25 ±0.1
transflective	1,4 ±0.15

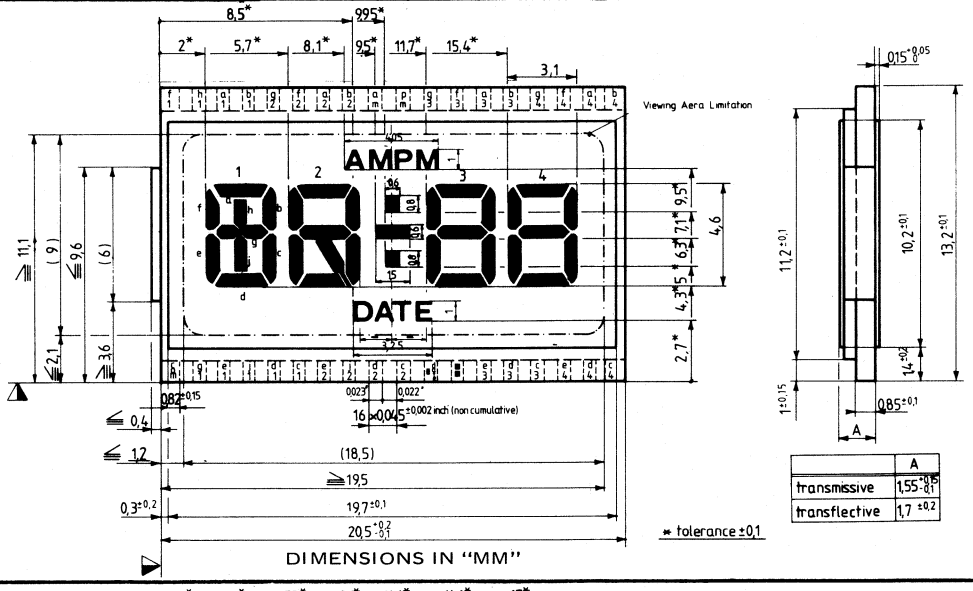


PY603b
NOTE: ALL OTHER DIMENSIONS OF PY603a APPLY ALSO TO PY603b.

49. OUTLINE DRAWINGS

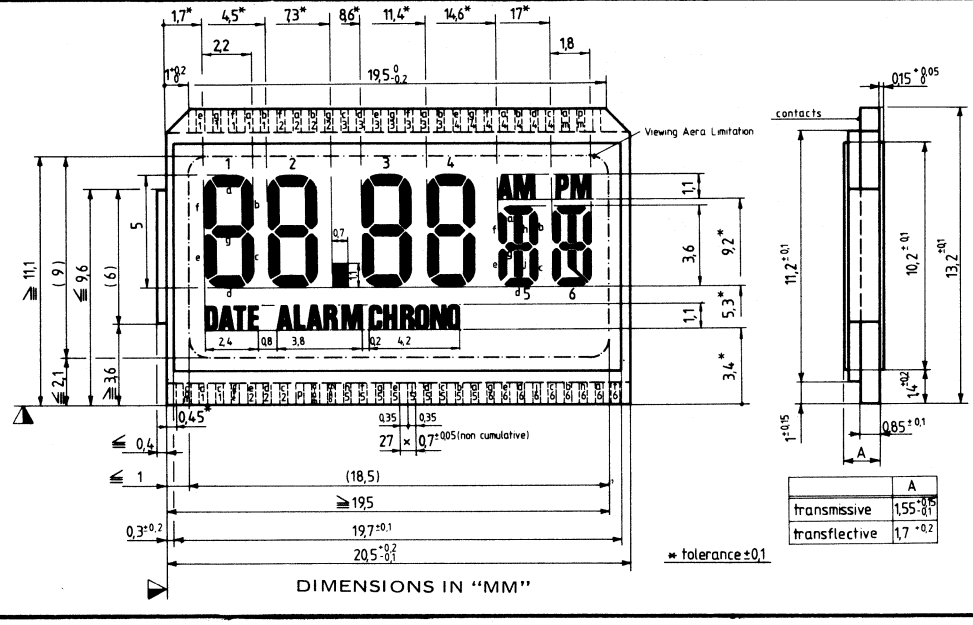
IN DRAWING NUMBER SEQUENCE

PY604



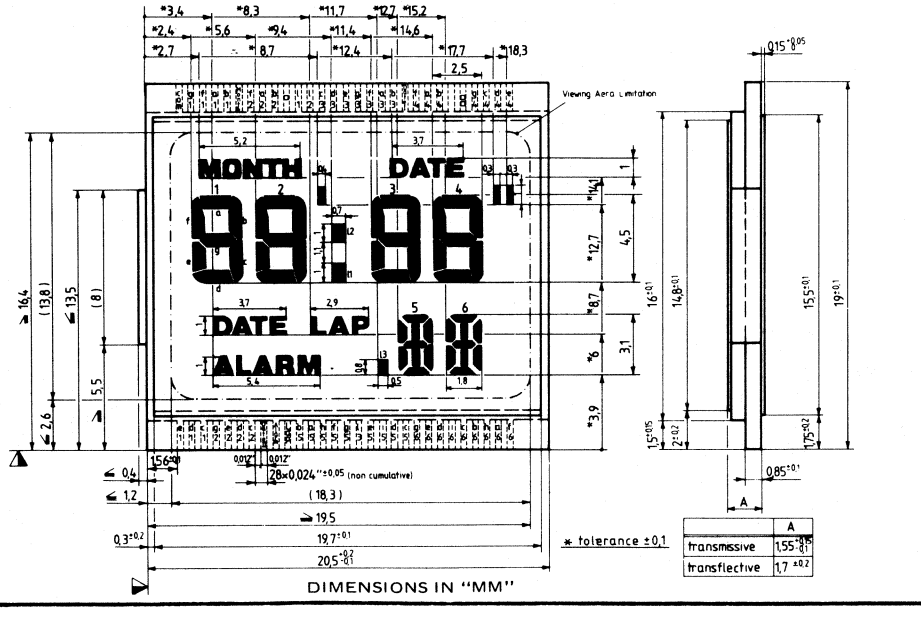
	A
transmissive	1,55
transflective	1,7 ±0,2

PY605



	A
transmissive	1,55
transflective	1,7 ±0,2

PY606

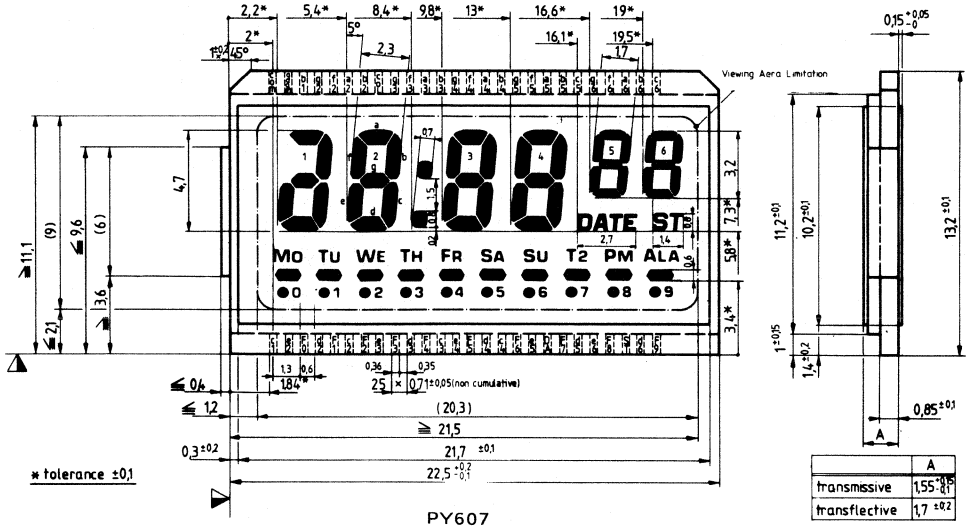


	A
transmissive	1,55
transflective	1,7 ±0,2

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

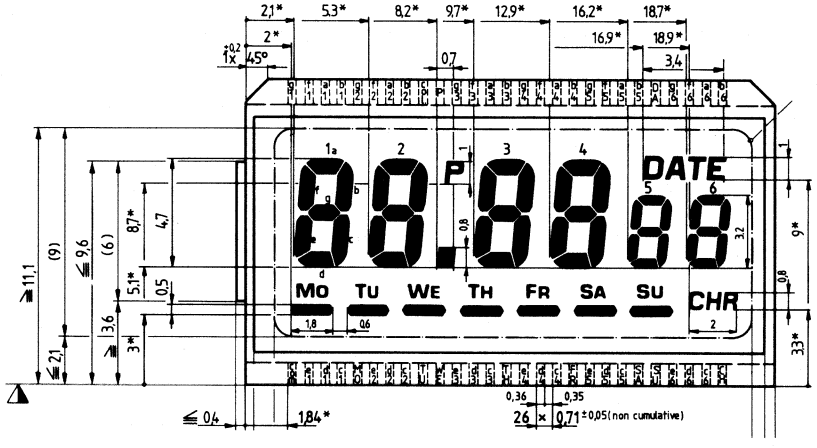
PY607



PY607

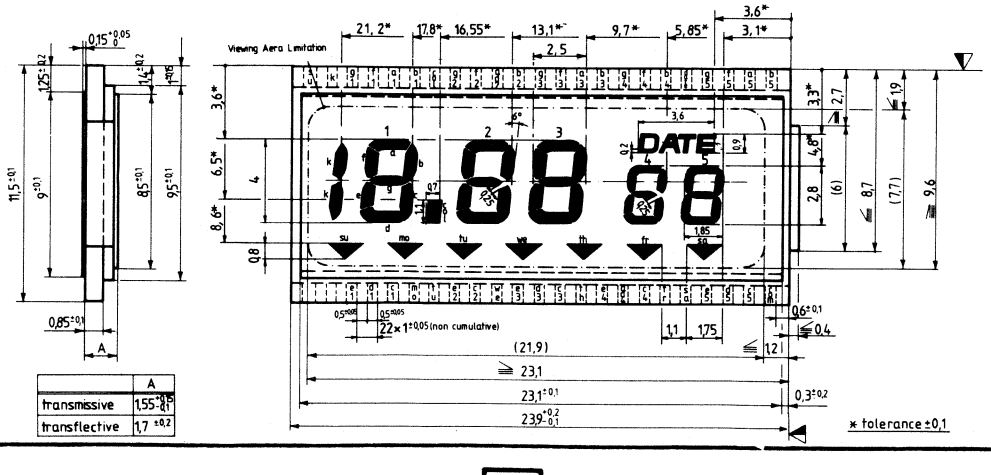
	A
transmissive	1,55
transflective	1,7 ±0,2

DIMENSIONS IN "MM"



NOTE: CORRESPONDING OVERALL LENGTH DIMENSIONS OF PY607 APPLY TO PY607a ALSO.

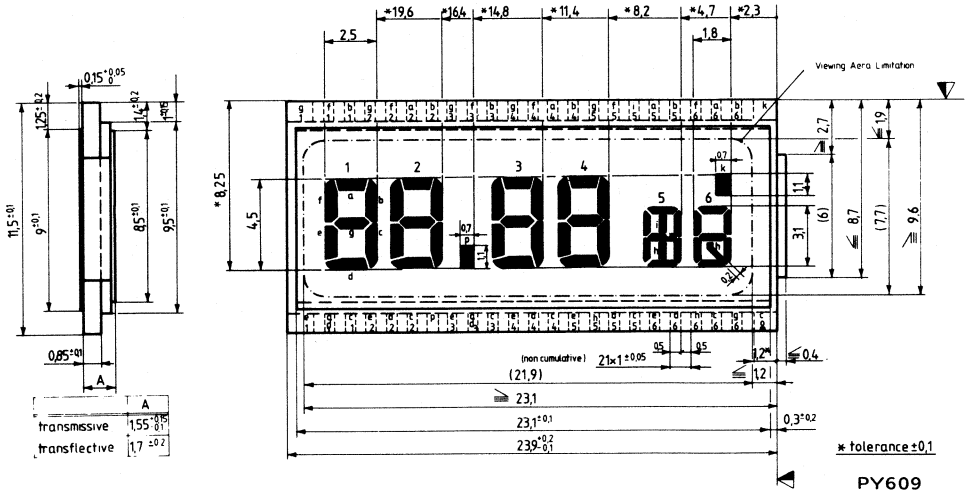
PY608



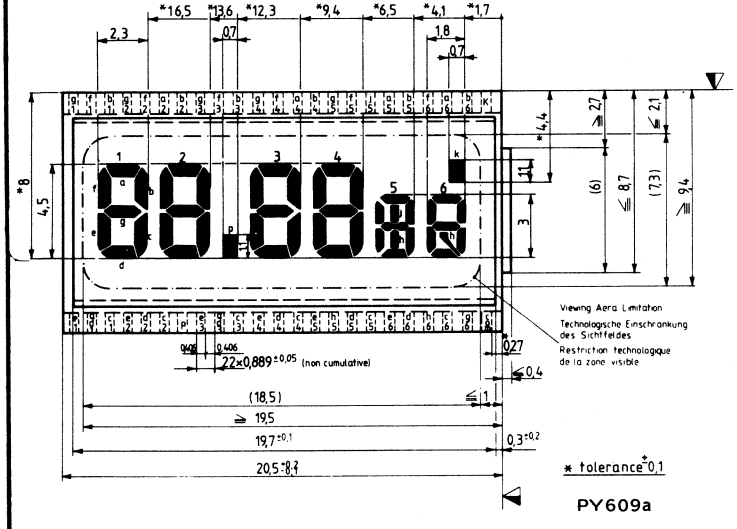
	A
transmissive	1,55
transflective	1,7 ±0,2

DIMENSIONS IN "MM"

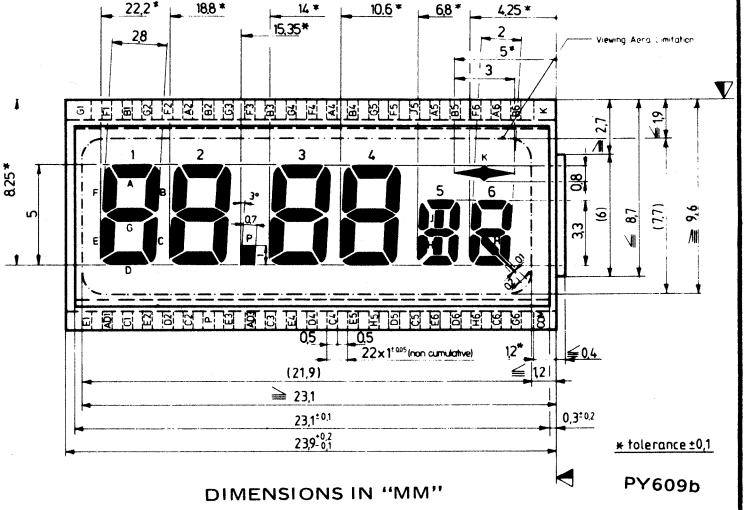
PY609



PY609



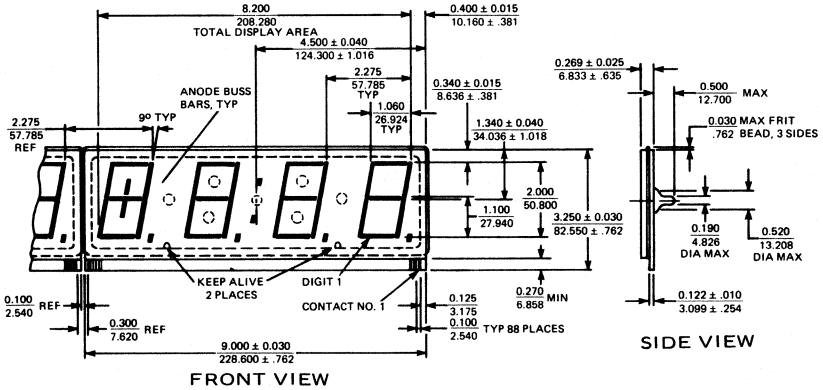
PY609a



PY609b

DIMENSIONS IN "MM"

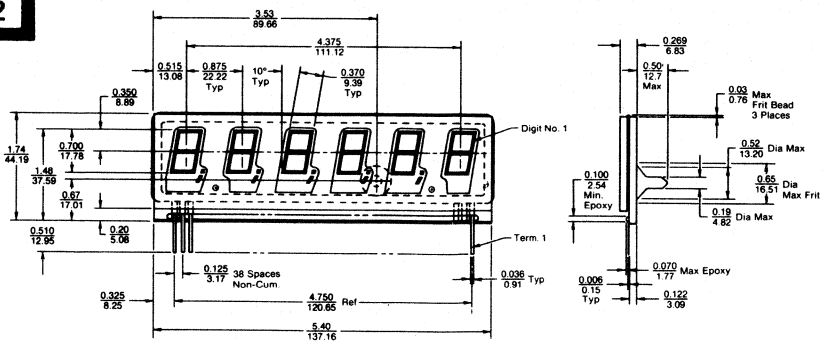
PY610



49. OUTLINE DRAWINGS

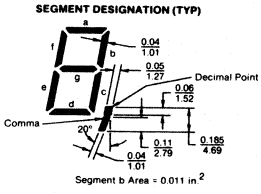
IN DRAWING NUMBER SEQUENCE

PY612



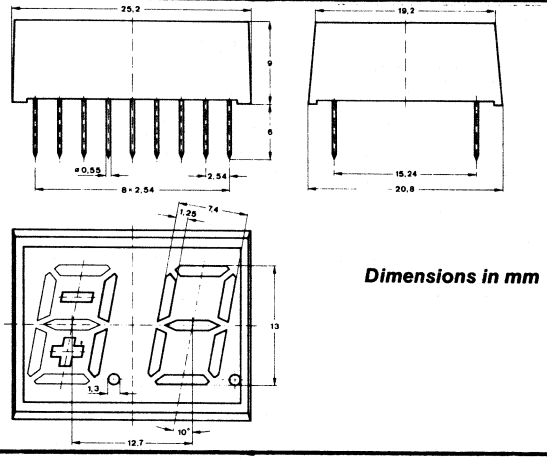
DIMENSIONS IN "MM"

SEGMENT DESIGNATION (TYP)



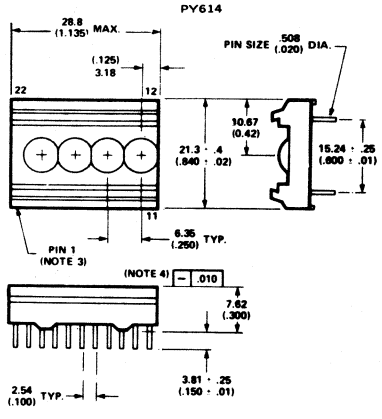
Segment b Area = 0.011 in.^{2}

PY613

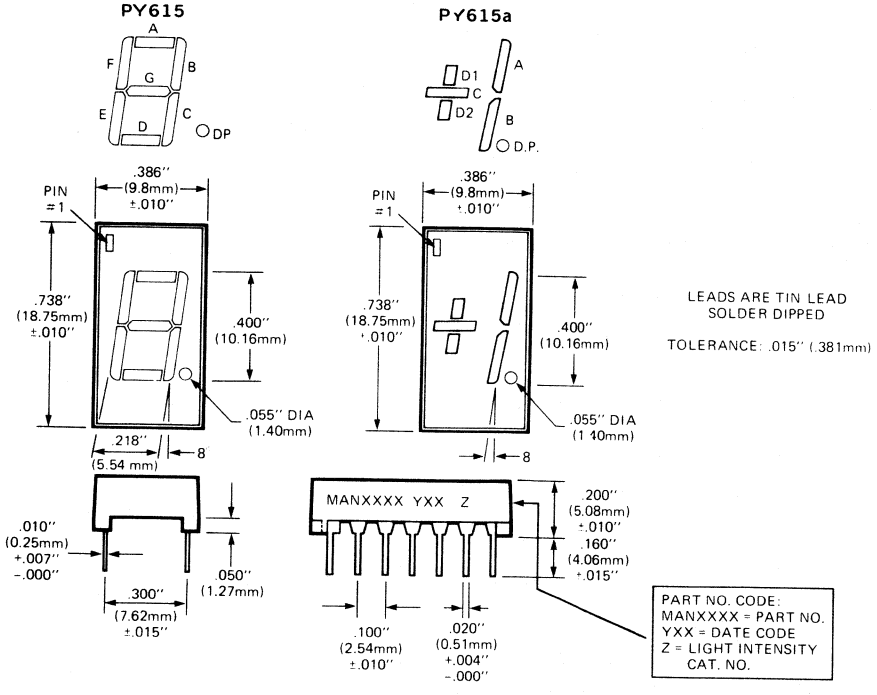


Dimensions in mm

PY614



PY615

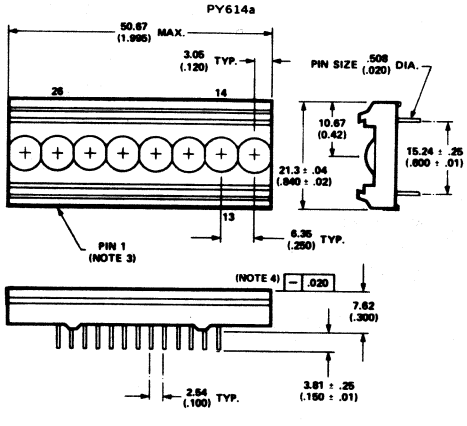


LEADS ARE TIN LEAD SOLDER DIPPED

TOLERANCE: .015" (.381mm)

PART NO. CODE:
MANXXXX = PART NO.
YXX = DATE CODE
Z = LIGHT INTENSITY CAT. NO.

PY614a



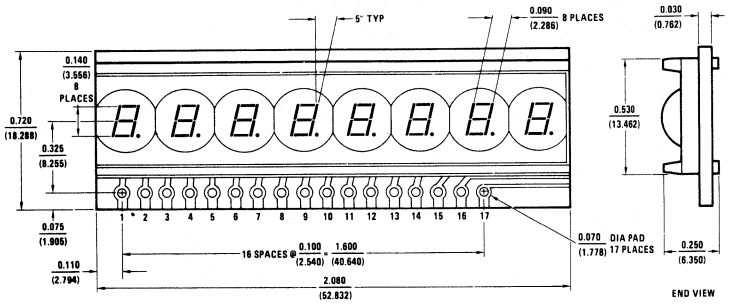
NOTES:
1. ALL DIMENSIONS IN MILLIMETRES AND (INCHES).
2. ALL UNTOLERANCED DIMENSIONS ARE FOR REFERENCE ONLY.
3. PIN 1 IDENTIFIED BY INK DOT ADJACENT TO LEAD.
4. DEVICE PACKAGE IS STRAIGHT WITHIN INDICATED LIMIT.

49. OUTLINE DRAWINGS

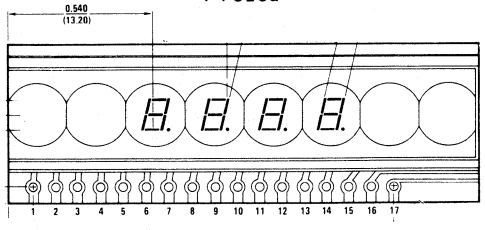
IN DRAWING NUMBER SEQUENCE

PY616

PY616



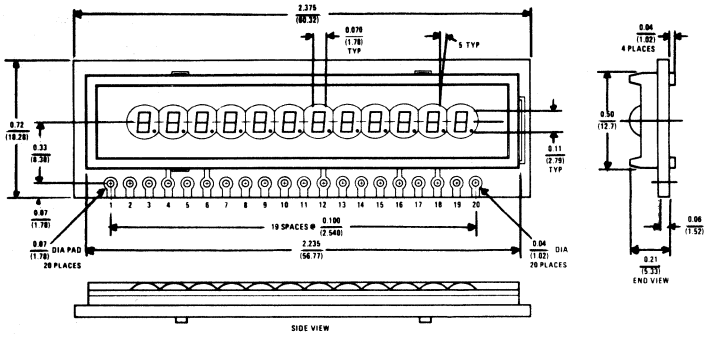
PY616a



NOTE 1: MATERIAL PC-75 CIRCUIT BOARD OR APPROVED EQUIVALENT.

NOTE 2: 8 AND 4 DIGITS ON 0.260 CENTERS.

PY617

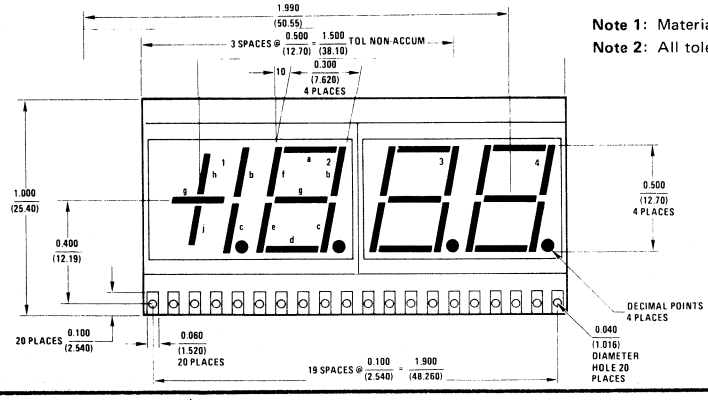


inches (millimeters)

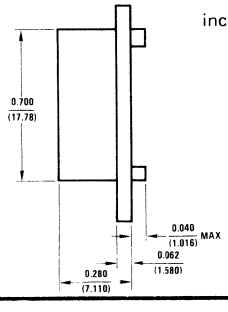
Note 1: Material: PC-75 circuit board or approved equivalent.
Note 2: 12 digits on 0.175/(4.445) centers.
Note 3: All tolerance ±0.015 (0.381).

ALL DIGITS ON 0.175 (4.45) CENTERS

PY618

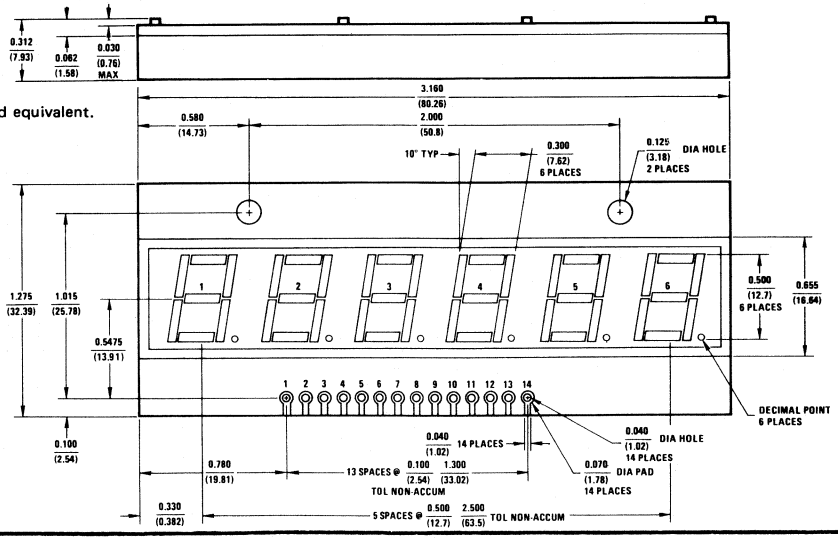


Note 1: Material: super-punch circuit board or approved equivalent 0.062 thick.
Note 2: All tolerances are 0.015 (0.38).



inches (millimeters)

PY619



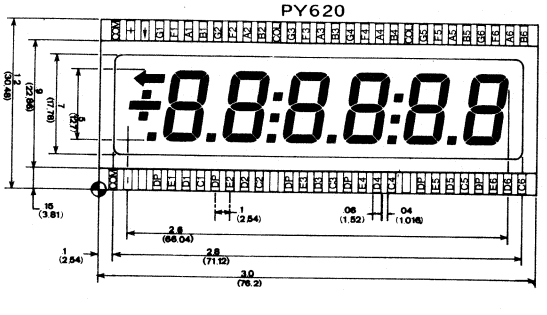
inches (millimeters)

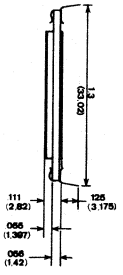
Note 1: Material: superpunch or approved equivalent.
Note 2: Tolerances: ±0.015/(0.38).

PY620

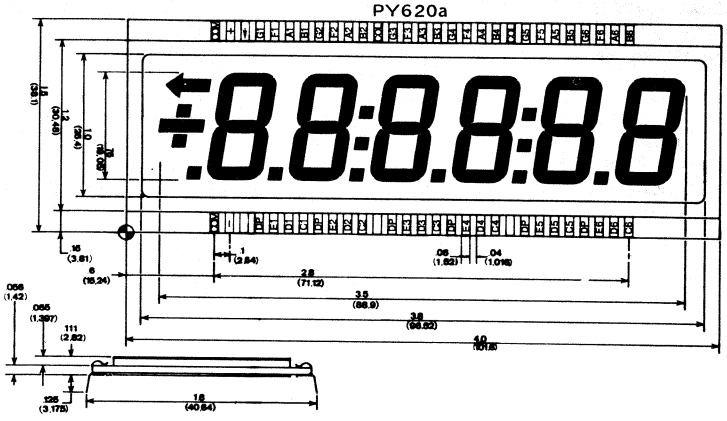
M	#1	Reflective
O	#2	Transmissive
D	#3	Transflective
E	#4	Diffused Reflective
	#5	Diffused Transflective

PY620



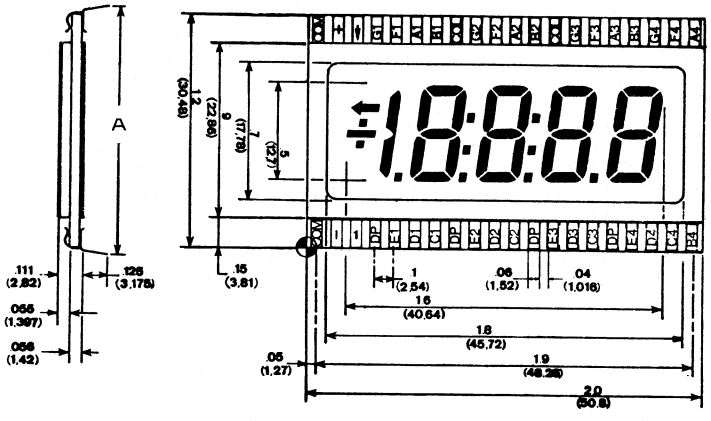


PY620a



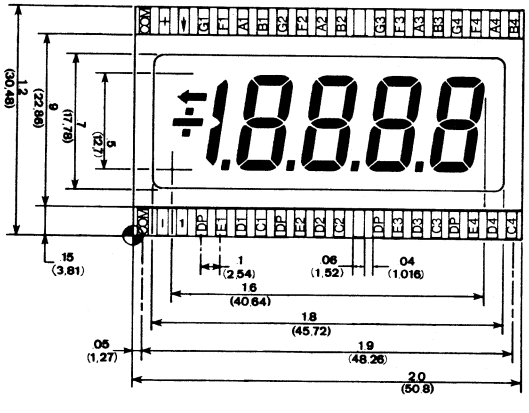
PY621

	A
PY621,a	1.30
PY621b	.600

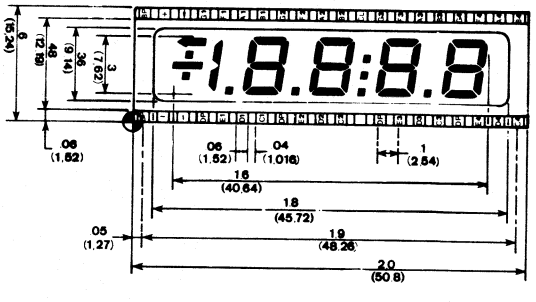


PY621

M	#1	Reflective
O	#2	Transmissive
D	#3	Transflective
E	#4	Diffused Reflective
	#5	Diffused Transflective

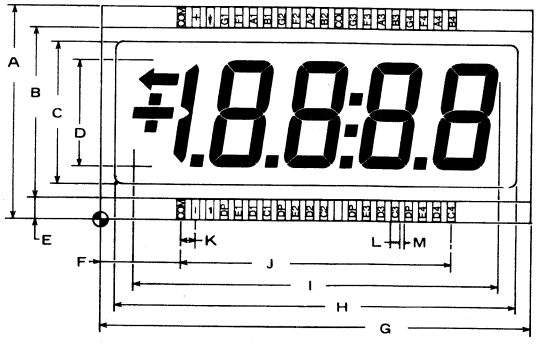


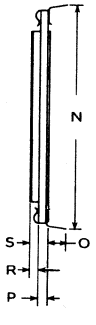
PY621a



PY621b

PY622





M	#1	Reflective
O	#2	Transmissive
D	#3	Transflective
E	#4	Diffused Reflective
	#5	Diffused Transflective

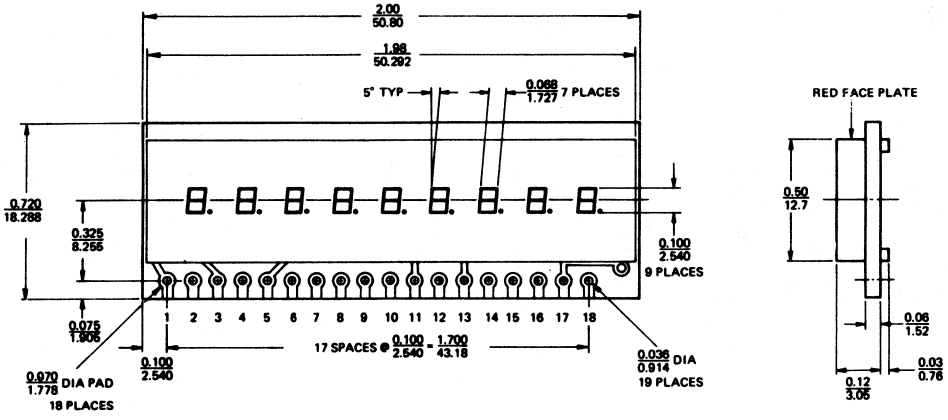
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S
PY622	1.50	1.20	1.00	.750	.150	.550	3.00	2.80	2.55	1.90	.100	.060	.040	1.60	.125	.056	.055	.111
PY622a	1.80	1.50	1.30	1.00	.150	1.05	4.00	3.80	3.50	1.90	.100	.060	.040	1.90	.125	.056	.055	.111

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

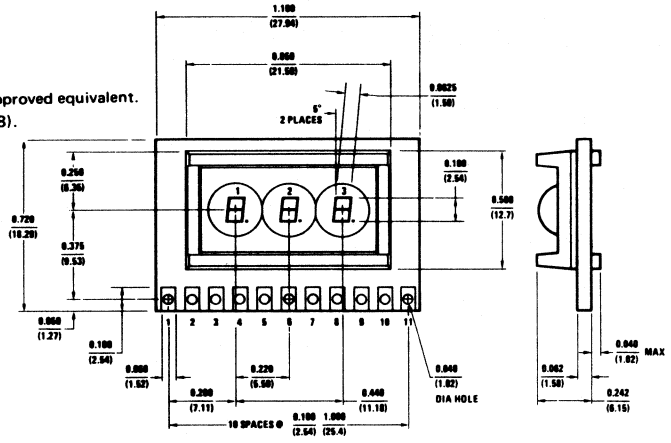
PY623

NOTES:
(1) All dimensions in inches / millimeters
(2) Material: PC-75 circuit board or approved equivalent
(3) 9 digits on 0.200 / 5.080 centers

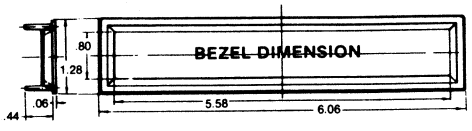


PY624

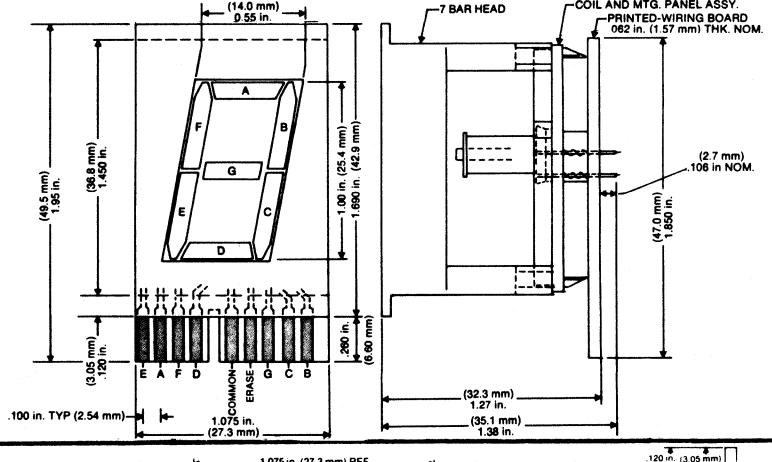
Note 1: Material: superpunch or approved equivalent.
Note 2: All tolerances ±1.015 (0.38).



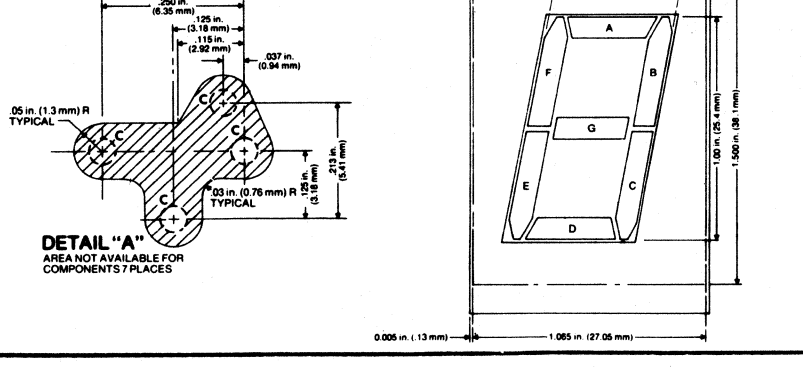
PY625



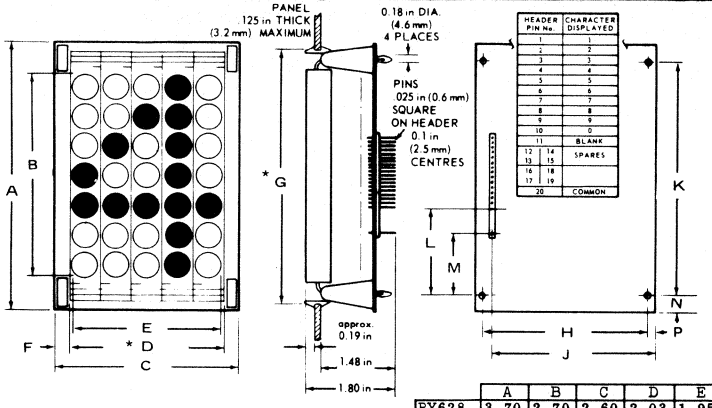
PY626



PY627



PY628

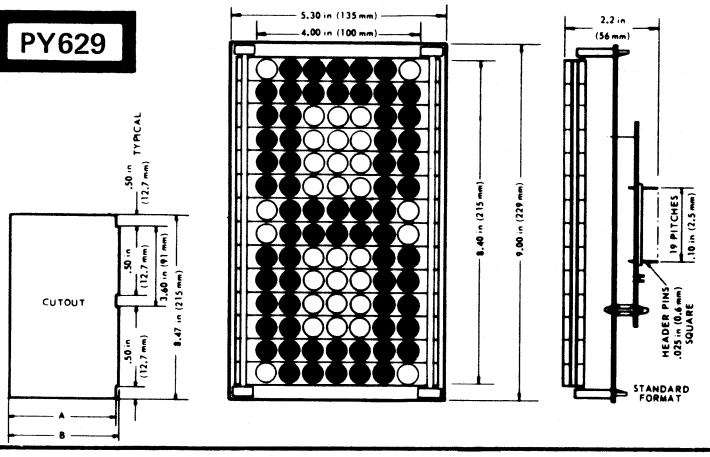


HEADER PIN No.	CHARACTER DISPLAYED
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	0
11	BLANK
12 | 14 / 13 | 15	SPARES
16 | 18 / 17 | 19	SPARES
20	COMMON

★ PANEL CUT-OUT
NOTE: for panels up to 0.062 in. (1.6 mm) thick
Cut-Out 3.03 in. (77 mm) x 4.96 in. (126 mm)

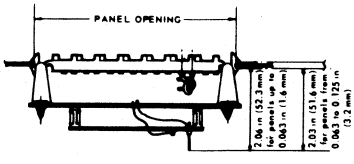
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
PY628	3.70	2.70	2.60	2.03	1.95	.280	3.35	2.28	2.28	3.05		.430	.330	.160
PY628a	5.30	4.10	3.60	3.03	2.90	.280	5.03	3.28	3.25	4.63	1.72	1.22	.340	.160

PY629

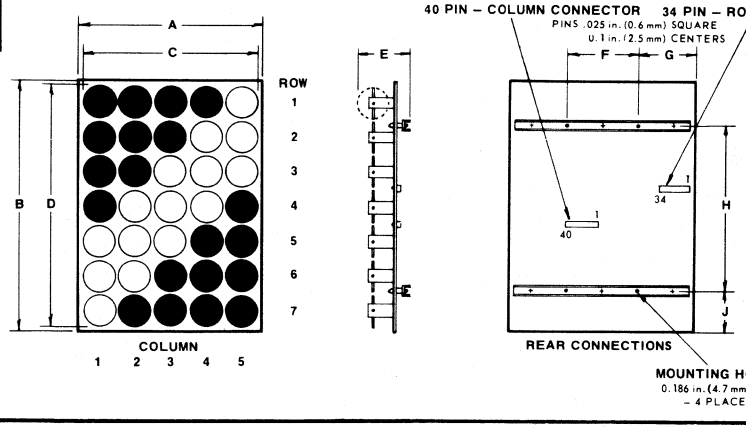


HEADER PIN No.	CHARACTER DISPLAYED
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	0
11	BLANK
12 | 14 / 13 | 15	SPARES
16 | 18 / 17 | 19	SPARES
20	COMMON

PANEL OPENING DIMENSIONS:
for 0.063 in (1.6 mm) THICKNESS
A – 4.920 in ±.005 (125 mm)
B – 4.995 in ±.010 (127 mm)
for 0.125 in (3.2 mm) THICKNESS
A – 5.020 in ±.005 (127.5 mm)
B – 5.045 in ±.010 (129.5 mm)
ALL OTHER DIMENSIONS ARE AS SHOWN

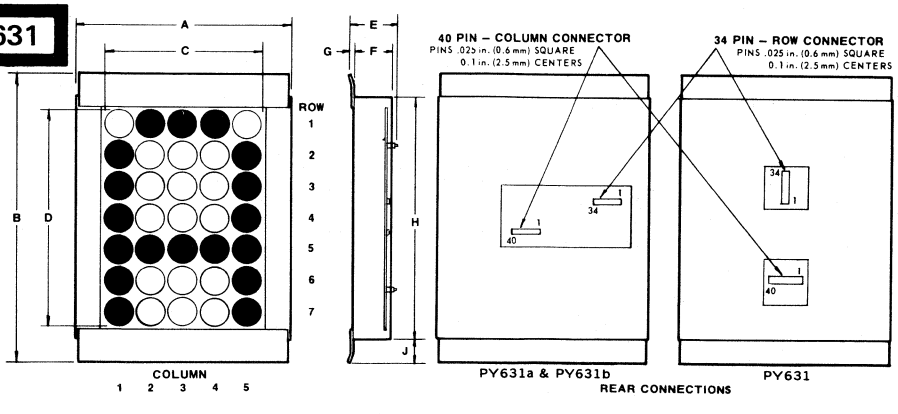


PY630



		A	B	C	D	E	F	G	H	J
PY630	inches	9.6	13.2	9.1	12.9	3.42	3.8	2.9	9.1	2.25
	mm	244	335	231	328	87	97	74	231	57
PY630a	inches	13.1	18.0	12.6	17.8	3.75	8.5	2.35	8.6	4.95
	mm	333	457	320	452	95	216	60	218	126

PY631

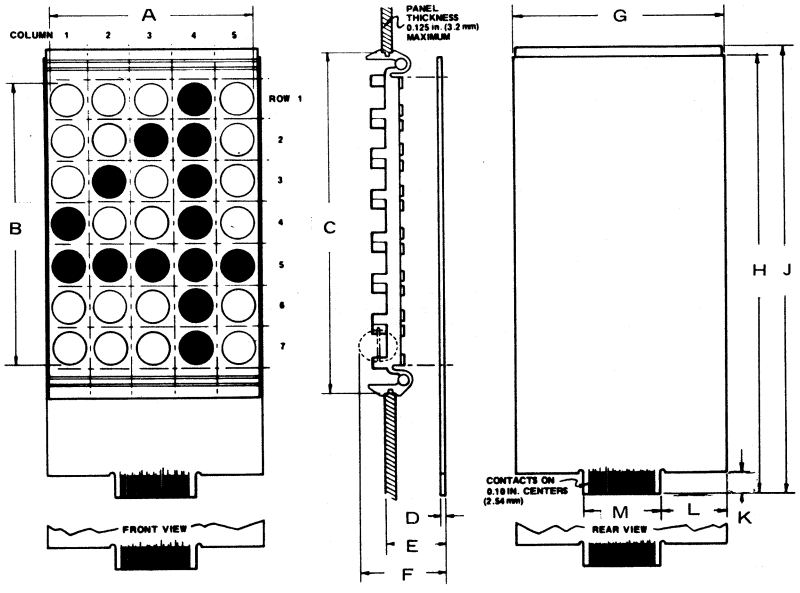


		A	B	C	D	E	F	G	H	J
PY631	inches	8.45	12.3	5.9	8.4	2.8	2.5	0.13	9.8	1.3
	mm	215	312	150	213	71	64	3.3	249	33
PY631a	inches	12.5	18.0	9.1	12.9	2.9	2.6	0.13	15.5	1.3
	mm	317	457	231	328	74	66	3.3	39	33
PY631b	inches	18.0	26.0	12.6	17.8	3.0	2.7	0.13	22.0	2.0
	mm	457	660	320	452	76	68	3.3	559	51

49. OUTLINE DRAWINGS

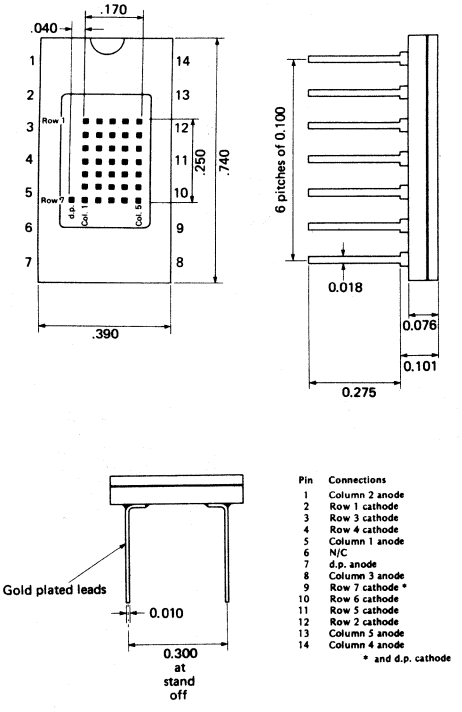
IN DRAWING NUMBER SEQUENCE

PY632



	A	B	C	D	E	F	G	H	J	K	L	M
PY632	1.95	2.70	3.35	.062	.780	1.04	2.03	4.47	4.57	.310	.470	1.08
PY632a	2.90	4.10	5.03	.062	.840	1.19	3.03	6.38	6.58	.310	.960	1.08

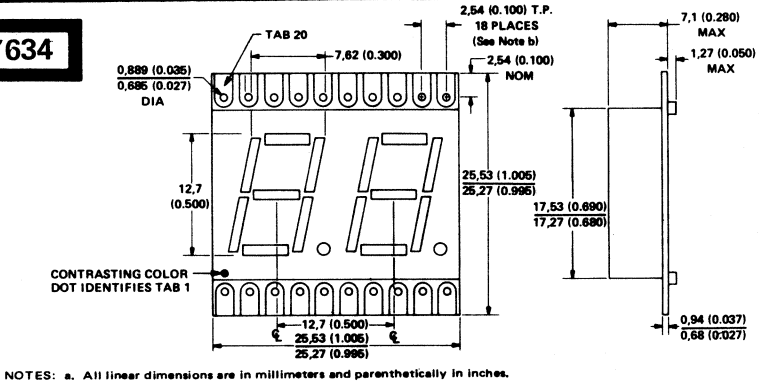
PY633



Pin	Connections
1	Column 2 anode
2	Row 1 cathode
3	Row 3 cathode
4	Row 4 cathode
5	Column 1 anode
6	N/C
7	d.p. anode
8	Column 3 anode
9	Row 7 cathode *
10	Row 6 cathode
11	Row 5 cathode
12	Row 2 cathode
13	Column 5 anode
14	Column 4 anode

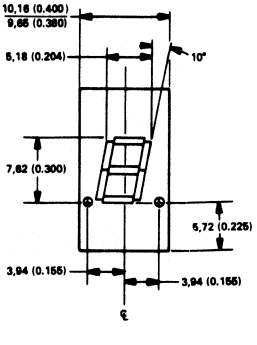
* and d.p. cathode

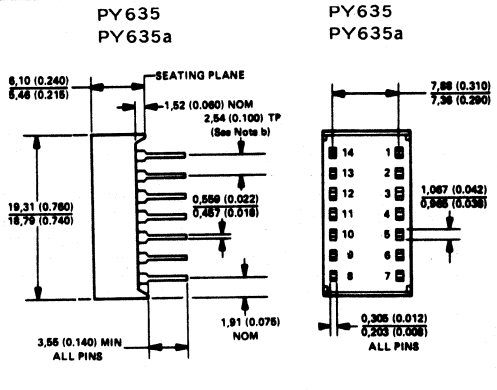
PY634

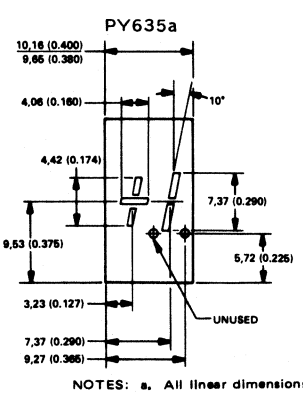


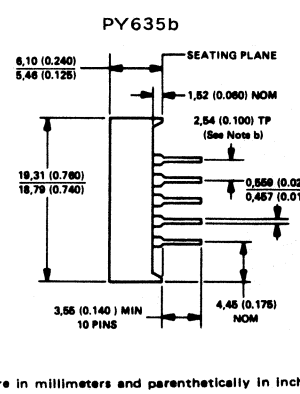
NOTES: a. All linear dimensions are in millimeters and parenthetically in inches.
b. The true position tab spacing is 2,54 (0.100). Each tab centerline is located within 0,254 (0.010) of its true position.
c. Dimensions associated with the digit segments and decimal points are nominal. The B, C, E, and F segments are at an angle of 10° with respect to the centerline of the display.

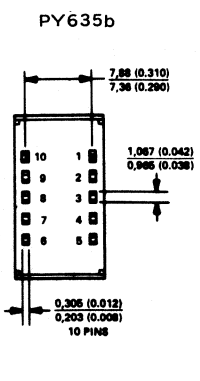
PY635









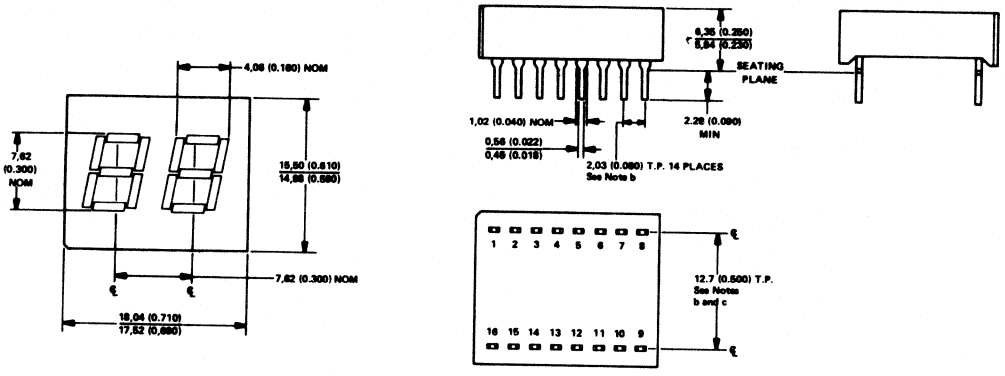


NOTES: a. All linear dimensions are in millimeters and parenthetically in inches.
b. Each pin centerline is located within 0,26 mm (0.010 inch) of its true longitudinal position.
c. All dimensions associated with segment and decimal point location are nominal.

49. OUTLINE DRAWINGS

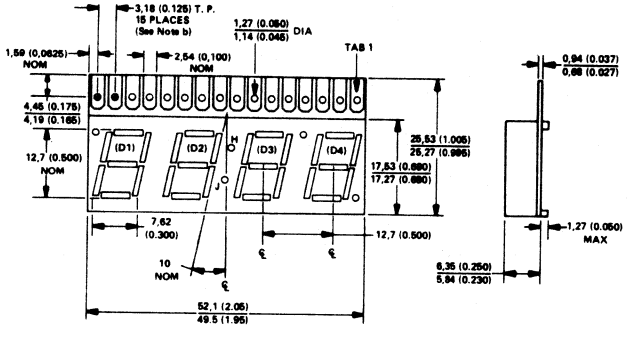
IN DRAWING NUMBER SEQUENCE

PY636

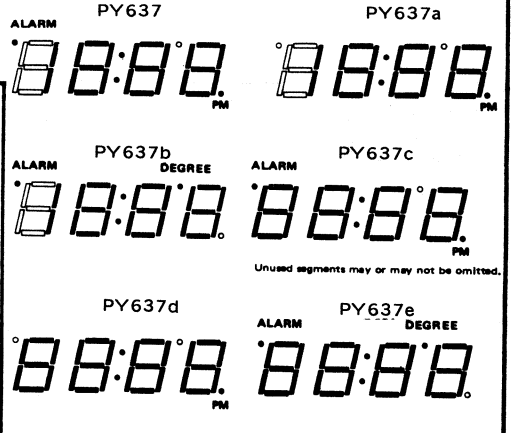


NOTES: a. All dimensions are in millimeters and parenthetically in inches.
b. Each pin centerline is located within 0.26 (0.010) of its true position (T.P.).
c. The spacing between row centerlines is measured at the seating plane.

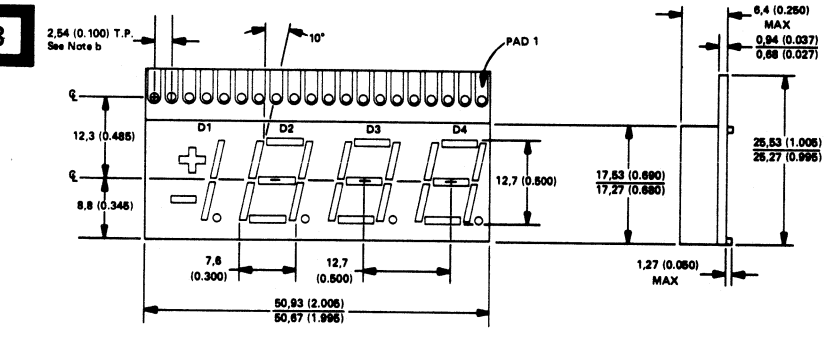
PY637



NOTES: a. All linear dimensions are in millimeters and parenthetically in inches.
b. The true position tab spacing is 3,18 mm (0.125 inch) between centerlines. Each tab centerline is located within 0,26 mm (0.010 inch) of its true position.
c. Dimensions associated with the digit segments, colon segments, alarm indicator, and PM indicator are nominal.

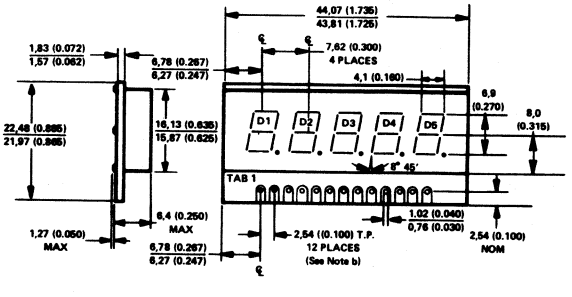


PY638



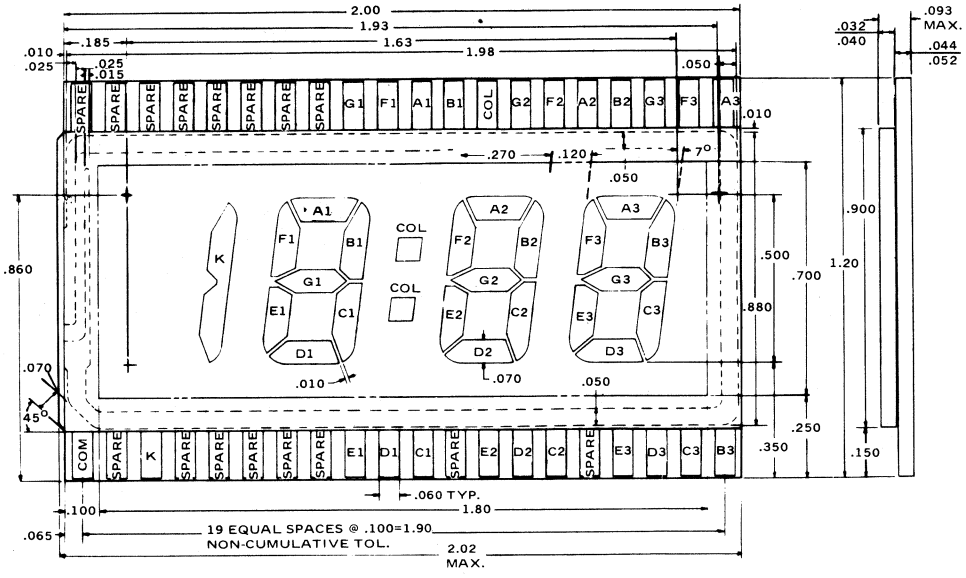
NOTES: a. All linear dimensions are in millimeters and parenthetically in inches.
b. True-position pad and wire hole spacing is 2,54 mm (0.100 inch) between centerlines. Each pad or hole centerline is located within 0,13 mm (0.005 inch) of its true position.
c. Dimensions associated with the digit segments are nominal.

PY639



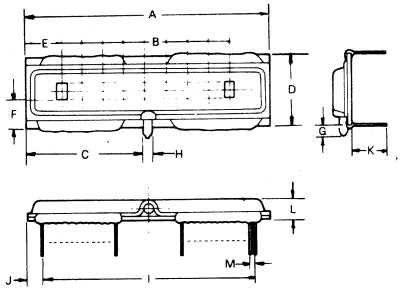
NOTES: a. All linear dimensions are in millimeters and parenthetically in inches.
b. The true-position tab spacing is 2,54 mm (0.100 inch) between centerlines. Each pad centerline is located within 0,127 (0.005) of its true position.
c. Dimensions associated with the digit segments and decimal points are nominal.
d. No decimal points for PY639a.

PY640

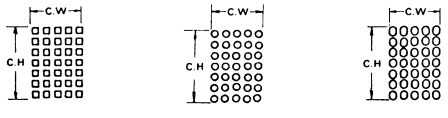


PY641

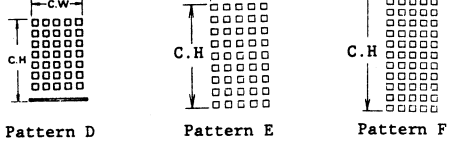
DIMENSIONS IN "MM"



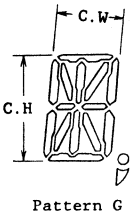
SEGMENT PATTERN



Pattern A | Pattern B | Pattern C



Pattern D | Pattern E | Pattern F

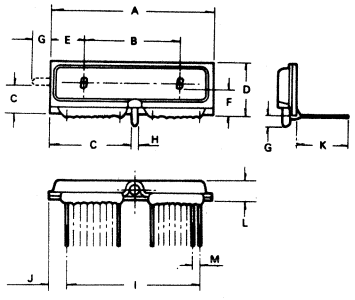


Pattern G

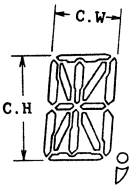
	CHARACTER DIMENSIONS		OUTER DIMENSIONS													PATTERN
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M	
PY641	5,00	3,00	65,5	7,00-5,50	31,9	25,0	12,7	9,60	5,00	2,75	50,8	6,60	14,0	7,30	2,54	G
PY641a	6,00	3,20	102,0	11,0-6,00	48,0	34,8	17,0	14,2	6,00	4,00	81,2	9,36	14,0	8,50	2,54	G
PY641b	6,00	3,20	126,0	15,0-6,00	60,0	34,8	17,0	14,2	6,00	4,00	81,2	21,3	14,0	8,50	2,54	G
PY641c	9,35	4,80	172,0	15,0-8,40	82,5	41,8	22,0	16,6	9,00	5,00	142,2	13,8	14,0	10,0	2,54	G
PY641d	5,50	3,00	140,0	19,0-5,50	66,5	34,8	16,7	14,5	9,00	5,00	81,2	28,3	14,0	10,7	2,54	G
PY641e	9,00	5,40	210,5	19,0-8,50	101,5	42,2	23,2	17,1	9,00	5,00	81,2	63,3	14,0	10,5	2,54	G
PY641f	6,00	3,50	210,0	31,0-5,50	101,5	41,8	18,7	17,8	9,00	5,00	142,2	32,8	14,0	10,2	2,54	G
PY641g	5,05	3,55	76,2	8,00-6,00	36,0	25,0	12,9	9,50	5,00	3,00	71,1	1,94	14,0	7,20	2,54	A
PY641h	14,0	9,80	172,0	9,00-14,0	82,5	42,0	20,9	15,1	9,00	5,00	152,4	8,80	14,0	10,0	2,54	B
PY641i	5,05	3,30	102,0	15,0-4,75	48,0	34,8	14,4	14,5	6,00	4,00	91,4	4,28	14,0	8,50	2,54	A
PY641j	9,00	6,30	172,0	15,0-8,30	82,5	41,8	22,7	16,2	9,00	5,00	142,2	13,8	14,0	10,5	2,54	B
PY641k	11,3	7,25	210,0	15,0-10,9	101,5	41,8	22,2	14,8	9,00	5,00	142,2	32,8	14,0	98,5	2,54	C
PY641l	5,05	3,55	140,0	19,0-5,20	66,5	35,0	25,6	14,5	9,00	5,00	111,7	13,1	14,0	10,5	2,54	A
PY641m	9,00	6,30	210,5	19,0-8,30	101,5	42,0	17,1	16,2	9,00	5,00	142,2	32,8	14,0	10,5	2,54	B
PY641n	6,05	3,55	208,0	31,0-5,50	101,5	41,0	18,7	17,4	9,00	5,00	198,1	4,94	14,0	9,85	2,54	D
PY641o	6,55	3,55	208,0	31,0-5,50	101,5	41,0	18,7	17,2	9,00	5,00	198,1	4,90	14,0	9,85	2,54	E
PY641p	5,05	3,55	222,0	39,0-4,75	107,5	35,0	17,3	14,5	9,00	5,00	198,1	10,9	14,0	10,0	2,54	A
PY641q	6,05	3,55	222,0	39,0-4,75	107,5	34,8	17,3	14,0	9,00	5,00	198,1	10,9	14,0	10,0	2,54	D
PY641r	8,80	3,55	240,0	37,0-5,20	117,5	41,0	18,6	16,1	9,00	5,00	218,4	10,7	14,0	10,0	2,54	F
PY641s	8,70	2,80	350,0	79,0-3,80	172,5	42,0	25,4	16,6	10,0	5,00	320,0	15,0	14,0	11,5	2,54	F
PY641t	5,05	3,55	222,0	39,0-4,75	107,5	50,8	17,3	16,1	9,00	5,00	198,1	10,9	14,0	12,2	2,54	A
PY641u	6,05	3,55	222,0	39,0-4,75	107,5	50,8	17,3	16,1	9,00	5,00	203,2	8,40	14,0	12,0	2,54	D
PY641v	6,00	3,50	271,0	39,0-4,75		136,0	40,5	34,5	11,0	5,00				19,0		D

PY642

DIMENSIONS IN "MM"



SEGMENT PATTERN

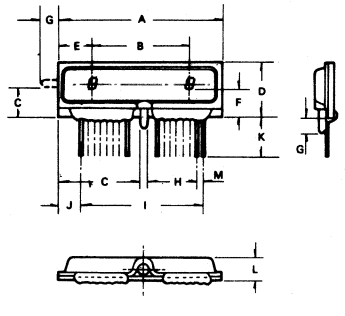


Pattern G

	CHARACTER DIMENSIONS		OUTER DIMENSIONS													PATTERN
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M	
PY642	8,00	4,80	113,5	9,00-8,70	54,0	26,2	16,8	10,2	6,00	4,00	81,2	15,3	14,0	9,35	2,54	G
PY642a	13,0	7,80	182,0	11,0-12,5	87,5	41,5	11,2	13,3	9,00	5,00	142,2	18,8	14,0	9,85	2,54	G
PY642b	4,50	2,30	59,5	7,00-4,60	27,9	21,2	12,5	10,1	5,00	2,20	48,2	4,85	14,0	6,50	2,54	
PY642c	5,00	2,00	56,1	7,00-4,60	27,4	20,2	10,6	8,90	5,00	2,75	50,8	2,10	7,00	6,70	2,54	
PY642d	5,00	2,35	66,5	8,00-5,10	32,5	23,5	11,1	10,0	5,50	3,00	50,8	7,10	14,0	7,20	2,54	
PY642e	8,00	3,60	94,5	10,0-6,50	44,0	27,0	10,5	10,3	6,00	4,00	81,2	6,10	14,0	9,50	2,54	
PY642f	9,50	4,00	140,0	10,0-9,50	66,5	40,0	21,5	16,4	9,00	5,00	111,7	13,1	14,0	10,5	2,54	
PY642g	5,30	2,40	87,5	12,0-5,00	41,6	21,2	13,0	8,50	5,00	2,75	76,2	4,90	14,0	7,30	2,54	
PY642h	6,50	2,90	94,5	12,0-5,50	44,5	26,5	11,8	11,0	6,00	4,00	81,2	5,90	14,0	9,50	2,54	
PY642i	8,00	3,30	113,5	12,0-6,30	54,1	26,2	18,2	10,2	6,00	4,00	81,2	15,3	14,0	9,50	2,54	
PY642j	9,50	4,00	140,0	12,0-8,00	66,5	40,0	21,0	16,2	9,00	5,00	111,7	13,1	14,0	10,5	2,54	
PY642k	9,50	4,00	140,0	12,0-8,00	66,5	39,5	21,0	16,2	9,00	5,00	116,8	10,5	14,0	10,5	2,54	
PY642l	6,50	2,90	114,0	14,0-5,80	54,1	26,5	15,4	11,0	6,00	4,00	91,4	10,2	14,0	9,50	2,54	
PY642m	10,0	6,50	58,0	3,00-8,50	27,0	27,0	14,8	10,2	6,00	4,00	50,8	3,60	14,0	8,50	2,54	
PY642n	10,0	5,00	82,0	4,00-10,5	38,0	30,5	19,0	11,0	6,00	4,00	73,6	3,17	14,0	8,50	2,54	
PY642o	12,0	6,00	102,0	4,00-12,5	47,5	41,0	24,8	14,5	9,00	5,00	81,2	9,40	14,0	10,5	2,54	
PY642p	12,5	7,00	94,0	4,00-12,0	44,0	35,5	16,0	12,2	6,00	4,00	81,2	5,36	14,0	8,50	2,54	
PY642q	14,0	7,95	140,0	4,00-20,0	66,5	40,0	29,0	13,5	9,00	5,00	81,2	28,4	14,0	10,5	2,54	
PY642r	15,0	8,00	102,0	4,00-14,5	48,0	38,5	21,0	13,2	6,00	4,00	81,2	9,36	14,0	8,70	2,54	
PY642s	9,50	4,50	82,0	5,00-8,60	38,0	30,5	18,5	11,2	6,00	4,00	73,6	3,17	14,0	8,50	2,54	
PY642t	11,5	5,80	102,0	5,00-11,0	47,5	41,0	22,5	14,9	9,00	5,00	81,2	9,40	14,0	12,5	2,54	
PY642u	14,0	7,95	140,0	5,00-17,5	66,5	40,0	25,2	14,2	9,00	5,00	81,2	28,4	14,0	10,5	2,54	
PY642v	12,6	8,00	160,0	6,00-13,0	77,0	33,5	15,0	10,2	7,00	4,00	142,2	7,88	14,0	8,50	2,54	
PY642w	14,5	7,20	172,0	8,00-13,5 1,00-22,0	82,5	40,0	18,9	13,5	9,00	5,00	111,7	29,1	14,0	10,5	2,54	
PY642x	9,50	4,00	102,0	8,00-8,00	47,5	39,5	18,0	16,4	9,00	5,00	81,2	9,36	14,0	10,5	2,54	
PY642y	9,50	4,00	102,0	8,00-8,00	47,5	39,5	18,0	16,4	9,00	5,00	81,2	9,36	14,0	10,5	2,54	
PY642z	12,0	6,00	140,0	7,00-12,0 1,00-13,0	66,5	40,0	19,0	15,5	9,00	5,00	116,8	10,5	14,0	10,5	2,54	
PY642aa	12,6	7,50	160,0	8,00-12,0	77,0	33,5	15,0	10,2	7,00	4,00	142,2	7,88	14,0	8,50	2,54	
PY642ab	14,5	7,20	172,0	8,00-15,0	82,5	40,0	25,0	13,5	9,00	5,00	111,7	29,1	14,0	10,5	2,54	
PY642ac	13,0	6,50	162,0	9,00-13,0	77,5	41,5	21,5	17,0	10,0	5,00	142,2	9,00	14,0	10,0	2,54	
PY642ad	7,60	4,20	56,5	2,00-7,62 2,00-5,08	12,1	25,2	14,8	9,70	5,20	2,75	38,1	7,18	14,0 7,62	7,20	2,54	
PY642ae	12,0	6,60	94,0	2,00-12,0 2,00-9,00	44,0	35,5	20,5	12,5	6,00	4,00	81,2	5,36	14,0	8,50	2,54	
PY642af	12,5	7,00	94,0	2,00-13,5 2,00-9,75	44,0	35,5	22,7	12,5	6,00	3,82	83,8	4,00	14,0	8,50	2,54	
PY642ag	25,0	12,0	142,0	2,00-19,5 2,00-13,5	67,5	61,0	20,5	18,5	9,00	5,00	81,2	29,0	14,0	12,0	2,54	
PY642ah	11,5	6,40	95,0	2,00-11,5 2,00-9,00	44,5	46,5	17,7	16,5	6,00	4,00	81,2	5,86	14,0	8,50	2,54	
PY642ai	16,3	67,0	102,0		48,0	38,5	16,0	11,8	6,00	4,00	81,2	9,40	14,0	8,50	2,54	
PY642aj	8,00	99,4	127,0	99,0-1,00	13,0	28,5	15,3	11,0	7,00	4,00	109,2	11,7	14,0	8,50	2,54	
PY642ak	8,00	84,4	127,0	99,0-,850	13,0	28,5	15,3	11,0	7,00	4,00	109,2	11,7	14,0	8,50	2,54	
PY642al	8,00	101,5	140,0	119,0-,850	66,0	40,0	13,8	16,5	9,00	5,00	116,8	10,5	14,0	10,5	2,54	

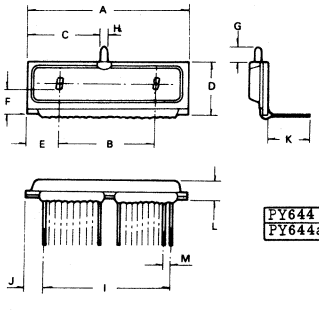
PY643

DIMENSIONS IN "MM"



	CHARACTER DIMNSIONS		OUTER DIMENSIONS												
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M
PY643	5,00	2,40	66,5	8,00-5,00	32,5	23,5	12,5	10,0	5,50	3,00	50,8	7,10	14,0	7,20	2,54
PY643a	7,00	3,40	94,5	8,00-7,80	44,5	26,2	14,3	9,95	6,00	4,00	81,2	5,86	14,0	9,50	2,54
PY643b	5,25	2,45	76,5	10,0-5,00	36,0	22,2	12,5	9,70	5,00	3,00	71,1	1,90	34,0	7,20	2,54
PY643c	5,75	2,45	76,5	10,0-5,00	36,0	22,0	12,5	9,20	5,00	3,00	71,1	1,94	14,0	7,20	2,54
PY643d	5,75	2,45	76,5	10,0-5,00	36,0	22,2	12,5	9,12	5,00	3,00	71,1	1,94	15,0	7,40	2,54
PY643e	6,50	3,00	94,5	10,0-6,60	44,5	26,5	12,0	10,9	6,00	4,00	81,2	5,86	34,0	9,50	2,54
PY643f	6,50	2,90	95,0	12,0-5,50	44,5	26,5	11,8	11,0	6,00	4,00	81,2	5,86	14,0	9,50	2,54
PY643g	8,00	3,30	113,5	12,0-6,60	54,1	26,2	16,4	10,2	6,00	3,80	81,2	15,3	34,0	9,50	2,54
PY643h	9,50	4,00	140,0	12,0-8,00	66,5	39,5	21,0	16,2	9,00	5,00	116,8	10,5	34,0	10,5	2,54
PY643i	6,50	2,90	113,5	14,0-6,00	54,0	26,2	14,0	10,7	6,00	4,00	91,4	10,2	34,0	9,50	2,54
PY643j	14,5	8,70	81,0	3,00-14,0	37,5	34,5	19,3	12,5	6,00	4,00	73,6	2,70	14,0	8,50	2,54
PY643k	11,0	6,90	81,0	4,00-10,8	37,5	34,5	18,3	12,5	6,00	4,00	73,6	2,70	14,0	8,50	2,54
PY643l	15,0	7,40	210,0	11,0-14,9	101,5	41,0	22,0	13,0	7,00	5,00	152,4	27,8	14,0	9,85	2,54
PY643m	8,00	4,20	56,5	2,00-7,00 2,00-5,00	12,1	25,5	13,0	9,50	7,00	2,75	50,8	2,10	14,0	7,00	2,54
PY643n	7,60	4,20	56,4	2,00-7,62 2,00-5,08	12,1	25,2	15,0	8,45	5,00	2,75	38,1	7,38	14,0	7,00	2,54
PY643o	15,0	7,00	102,0	2,00-13,0 2,00-10,0	48,0	38,5	16,1	12,5	9,00	4,00	93,9	3,01	34,0	8,50	2,54

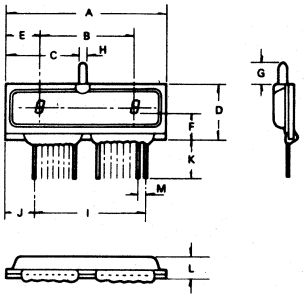
PY644



DIMENSIONS IN "MM"

	CHARACTER DIMENSIONS		OUTER DIMENSIONS												
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M
PY644	4,50	1,75	72,5	12,0-4,00	52,5	20,8	11,5	8,85	5,50	3,00	58,4	6,29	14,0	6,80	2,54
PY644a	14,0	7,00	140,0	8,00-11,9	66,5	39,5	21,4	13,5	9,50	5,00	111,7	13,1	14,0	10,0	2,54

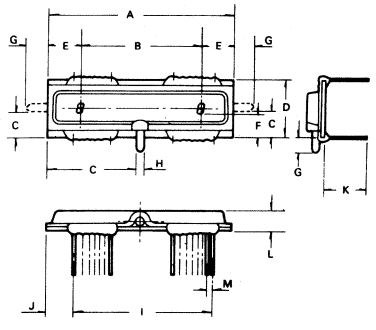
PY645



DIMENSIONS IN "MM"

	CHARACTER DIMENSIONS		OUTER DIMENSIONS												
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M
PY645	5.50	3.30	46.5	2.00-5.60 2.00-3.80	21.1	20.7	13.1	8.00	5.50	2.75	38.1	3.45	7.00	7.20	2.54

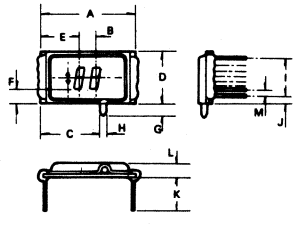
PY646



DIMENSIONS IN "MM"

	CHARACTER DIMENSIONS		OUTER DIMENSIONS												
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M
PY646	9,50	4,00	102,0	8,00-8,00	47,5	41,0	18,0	15,9	9,00	5,00	81,2	9,40	14,0	10,5	2,54
PY646a	3,70	1,50	66,5	11,0-3,80	32,3	25,0	10,9	10,2	5,00	3,00	50,8	7,10	21,0	7,50	2,54
PY646b	5,00	2,40	76,2	11,0-4,50	36,0	25,0	13,3	9,50	5,00	3,00	50,8	11,9	14,0	7,20	2,54
PY646c	9,50	4,00	140,0	12,0-8,00	66,5	41,0	21,0	15,7	9,00	5,00	81,3	28,4	14,0	10,5	2,54
PY646d	3,70	1,70	76,5	13,0-4,00	36,0	25,0	10,5	10,1	5,00	3,00	50,8	12,1	21,0	7,20	2,54
PY646e	9,50	3,70	140,0	14,0-6,90	66,5	41,0	20,7	15,9	9,00	5,00	81,3	28,4	14,0	10,5	2,54
PY646f	9,50	4,90	172,0	16,0-8,00	82,5	41,0	21,0	16,1	9,00	5,00	81,2	44,4	14,0	10,5	2,54
PY646g	10,0	4,60	60,0	3,00-8,50	27,0	29,5	14,7	9,50	6,00	4,00	50,8	3,60	14,0	8,50	2,54
PY646h	7,60	4,20	56,5	2,00-7,62 2,00-5,08	12,6	28,7	14,8	10,2	7,00	2,75	43,1	5,90	14,0	7,00	2,54
PY6461	7,60	4,00	50,0	2,00-7,78 2,00-4,08	22,8	27,5	14,4	9,70	5,00	2,75	40,6	3,73	8,50	6,50	2,54
PY646j	8,00	100,4	127,0	100,0-1,00	13,0	30,5	15,3	11,0	7,00	4,00	109,2	11,7	14,0	8,50	2,54

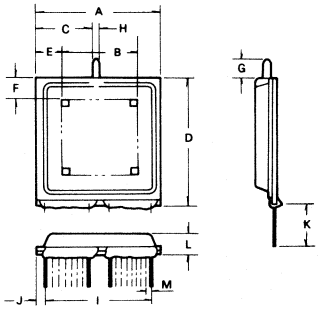
PY647

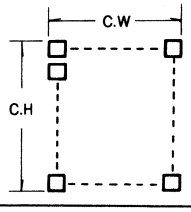


DIMENSIONS IN "MM"

	CHARACTER DIMENSIONS		OUTER DIMENSIONS												
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M
PY647	10.0	4.50	42.5	1.00-6.60	26.1	24.0	16.5	6.00	5.00	2.75	18.0	2.00	14.0	7.20	2.00
PY647a	12.6	5.50	45.5	1.00-8.00	30.1	27.0	19.0	6.20	5.00	2.75	18.0	3.50	14.0	7.20	2.00

PY648





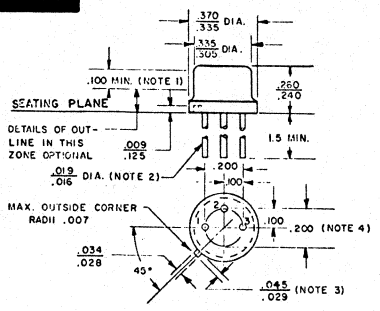
DIMENSIONS IN "MM"

	CHARACTER DIMENSIONS		OUTER DIMENSIONS												
	CH	CW	A	B (SPACE PITCH)	C	D	E	F	G	H	I	J	K	L	M
PY648	77.5	77.5	133.0	19.0-4.00	62.0	116.0	27.0	21.0	11.0	5.00	16.8	6.58	14.0	17.0	2.54
PY648a	80.0	80.0	138.0	79.0-1.00	66.5	118.0	29.0	19.0	9.00	5.00	127.0	5.50	14.0	17.0	2.54
PY648b	16.6	167.4	226.0	257.0-.650	110.5	60.0	29.2	21.6	9.00	5.00	203.2	11.4	14.0	12.0	2.54

49. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

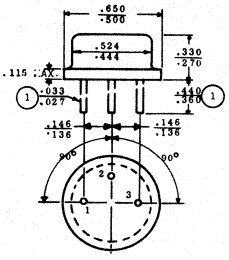
TO5



TO 5 NOTES:

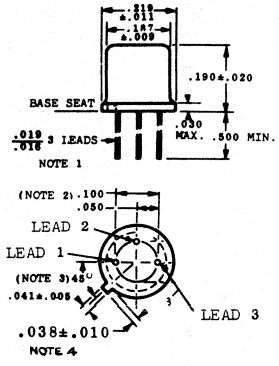
1. This zone is controlled for automatic handling. The variation in actual diameter within the zone shall not exceed .010 .
2. The specified lead diameter applies in the zone between .050 and .250 from the seating plane. Between .250 and 1.5 a maximum of .021 diameter is held. Outside of these zones the lead diameter is not controlled.
3. Measured from max. diameter of the actual device.
4. Leads having maximum diameter (.019) measured in gaging plane .054 - .001-.000 below the seating plane of the device shall be within .007 of their true locations relative to a maximum-width tab.
5. The device may be measured by direct methods or by the gage and gaging procedure described on the base gage drawing.

TO8



TO8 Note: 1. Three Leads

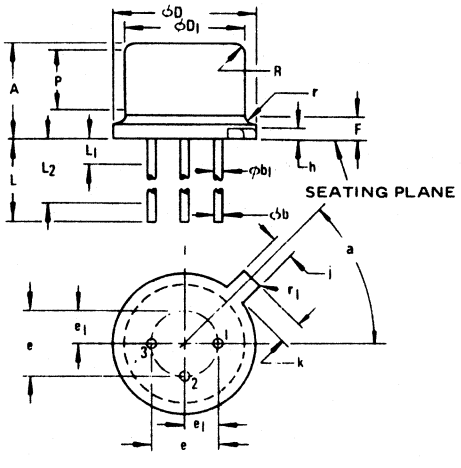
TO18



NOTES FOR TO18:

1. The specified lead dia. applies to the zone between .050 and .250 from the base seat. Between .250 and end of lead a max. of .021 is held. Outside of these zones the lead dia. is not controlled.
2. Leads having max. dia. of .019 measured in gaging plane .054 -.001,-.000 below the seating plane of the device shall be within .007 of their true positions relative to the max. tab width.
3. Index tab for visual orientation only.
4. Measured from max. dia. of the actual device.

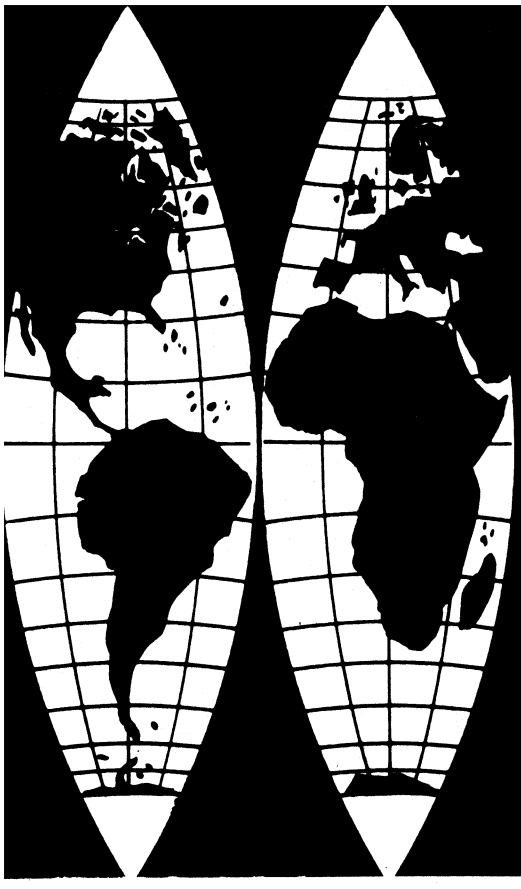
TO206



NOTES:

1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1973.
3. $Øb_1$ APPLIES BETWEEN L_1 AND L_2. Øb APPLIES BETWEEN L_2 AND L. DIAMETER IS UNCONTROLLED IN L_1 AND BEYOND L MINIMUM.
4. LEADS HAVING A MAXIMUM DIAMETER OF .482 MEASURE IN GAUGING PLANE 1.732-1.397 BELOW THE REFERENCE PLANE OF THE DEVICE SHALL BE LOCATED AT POSITION TOLERANCE WITHIN .356 DIAMETER RELATIVE TO MAXIMUM WITH TAB. DEVICE MAY BE MEASURED BY DIRECT METHODS OR BY GAUGE AND GAUGING PROCEDURES DESCRIBED ON GAUGE DRAWING GS-2.
5. MEASURED FROM MMC OF DEVICE.
6. $ØD_1$ SHALL NOT VARY MORE THAN .254 IN ZONE P. ZONE P CONTROLLED FOR AUTOMATIC HANDLING.
7. VARIATION AF HAS FOUR LEADS.
8. VARIATION AG HAS NO INDEX TAB.
9. CONTROLLING DIMENSIONS: INCH.

	A	Øb	Øb1	ØD	ØD1	e	e1	F	h	j	k	L	L1	L2	P	R	r	r1	a	NOTES
TO206AA	.170	.016	.016	.209	.178	.100	.050	.030		.036	.028	.500	.050	.250					45°	1,2,9
	.210	.021	.019	.230	.195	BSC	BSC	MAX		.046	.048	MIN	MAX	MIN					BSC	
NOTES		3	3			4	4				5	3	3	3						
TO206AB	.065	.016	.016	.209	.178	.100	.050	.040		.036	.028	.500	.050	.250					45°	1,2,9
	.085	.021	.019	.230	.195	BSC	BSC	MAX		.046	.048	MIN	MAX	MIN					BSC	
NOTES		3	3			4	4				5	3	3	3						
TO206AC	.115	.021	.016	.209	.178	.100	.050	.030		.036	.028	.500	.050	.250					45°	1,2,9
	.150	MAX	.019	.230	.195	BSC	BSC	MAX		.046	.048	MIN	MAX	MIN					BSC	
NOTES		3	3			4	4				5	3	3	3						
TO206AD	.050	.016	.016	.209	.178	.100	.050	.040		.036	.028	.500	.050	.250					45°	1,2,9
	.060	.021	.019	.230	.185	BSC	BSC	MAX		.046	.048	MIN	MAX	MIN					BSC	
NOTES		3	3			4	4				5	3	3	3						
TO206AE	.170	.021	.016	.209	.182	.100	.050	.023	.005	.036	.030	.500	.020	.250	.125	.010	.010	.007	45°	1,2,9
	.210	MAX	.019	.230	.192	BSC	BSC	MAX	.015	.046	.046	.625	MAX	MIN	MIN	MIN	MAX	MAX	BSC	
NOTES		3	3			4	4				5	3	3	3	6					
TO206AF	.170	.016	.016	.209	.178	.100	.050	.030		.036	.028	.500	.050	.250					45°	1,2,7,9
	.210	.021	.019	.230	.195	BSC	BSC	MAX		.046	.048	MIN	MAX	MIN					BSC	
NOTES		3	3			4	4				5	3	3	3						
TO206AG	.320	.021	.016	.255	.225	.100	.050	.010				1.500	.050	.250						1,2,8,9
	.350	MAX	.019	.275	.240	BSC	BSC	.030				MIN	MIN	MAX						
NOTES		3	3			4	4					3	3	3						



SECTION 50

OPTOELECTRONICS

Manufacturers' Sales Offices

These manufacturers have listed their sales offices in this section for your convenience. Please contact the sales office nearest you for any additional information you may need.

(MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS)

ALGG — AEG-TELEFUNKEN

	Zip Code	Telephone No.	TWX/Telex
Postfach 1109, Heilbronn, West Germany	D 7100	07131-8821	728746

AND — AND, INC.

	Zip Code	Telephone No.
DIVISION WILLIAM J. PURDY COMPANY 770 Airport Boulevard, Burlingame, California	94010	415-347-9916

APX — AMPEREX ELECTRONIC CORPORATION

	Zip Code	Telephone No.	TWX/Telex
Providence Pike, Slatersville, Rhode Island	02876	401-762-9000	710-387-1591

BBC
BROWN BOVERI

BBCS — BBC BROWN, BOVERI & COMPANY, LTD.

SALES DEPARTMENT			Zip Code	Telephone No.	TWX/Telex
Baden, Switzerland			CH-5401	(064) 50 11 81	52921 bbcch 53203 bbcch
ENGLAND	Brentford (Middlesex)	British Brown Boveri Ltd. Albany House 41 High Street	TW8 0BH	(01) 568-8778	934734
FRANCE	Paris (Cedex 08)	Cie. Electro-Mécanique Division Electronique et Equipements Courcellor I 2, rue Curnonsky	F-75017	7581272	620886F CEM FEVR
GERMANY	Lampertheim	Brown Boveri & Cie Aktiengesellschaft GB Halbleiter u. Stromrichter Boveristrasse 1 (Postfach 80)	D-6840	(06206) 503-1	465727 a bbcld
HONG KONG	Kowloon	BBC Brown Boveri Hong Kong Ltd. 6/F Jan Sin Mee Industrial Building 2 Ng Fong Street San Po Kong		00852-3- 283121	64665 bbclc hx
UNITED STATES	North Brunswick (New Jersey)	Brown Boveri Corporation 1460 Livingston Avenue	08902	201-932-6000	844464 844465

CENTRONIC

CENB — CENTRONIC (T.C. CENTRONIC LTD.)

	Zip Code	Telephone No.	TWX/Telex
1101 Bristol Road, Mountainside, New Jersey	07092	201-233-7200	138275

CHERRY

CHE – CHERRY SEMICONDUCTOR CORPORATION

(formerly MICRO COMPONENTS CORPORATION)	Zip Code	Telephone No.	TWX/Telex
99 Bald Hill Road, Cranston, Rhode Island	02920	401-463-6000	710-381-1757

CLAIREX ELECTRONICS.

CLA – CLAIREX ELECTRONICS

			Zip Code	Telephone No.	TWX/Telex
DIVISION OF CLAIREX CORPORATION					
560 South Third Avenue, Mt. Vernon, New York			10550	914-664-6602	137 308
CALIFORNIA	El Toro	Clairex Electronics 25201 Wandering Lane	92630	714-768-4561	
ILLINOIS	Naperville	Clairex Electronics 339 Redbud Drive	60540	312-357-2304	
MASSACHUSETTS	Hingham	Clairex Electronics 2 Beach Lane	02043	617-749-5203	

SEE OUR AD OUTSIDE BACK COVER

DECO

DECO – DIGITAL ELECTRONICS CORPORATION

	Zip Code	Telephone No.
197 Airport Boulevard, Burlingame, California	94010	415-532-2920

FERRANTI
Electronic Systems

FERB – FERRANTI ELECTRONICS LIMITED

			Zip Code	Telephone No.	TWX/Telex
Fields New Road, Chadderton Oldham, England			OL9 8NP	061-624-0515	668038
GERMANY	Munich 22	Ferranti GmbH Widenmayerstrasse 5	D8000	089-293 871	523980
U. S. A.	Plainview (New York)	Ferranti Electric, Inc. East Bethpage Road	11803	516-293-8383	510-224-6483

FPLC – FERRANTI-PACKARD LTD.

			Zip Code	Telephone No.	TWX/Telex
ELECTRONICS DIVISION 6030 Ambler Drive, Mississauga, Ontario, Canada			L4W 2P1	(416) 3020	06-961437
ARGENTINA	Buenos Aires	Autotrol Argentina S.A. Jujuy 1664 (1247) Capital Fed.		941-3477 (41-5315	33-22284
AUSTRALIA	Moorabbin (Victoria)	STC-Cannon Components Pty. Ltd. 248 Wickham Road	3189	95-1566	AA 30877
BRAZIL	Sao Paulo	Autotrol S/A Rua Jaguaribe n.o. 126/128	CEP-01224	222-1114	
CANADA	Willowdale	Avotronics Ltd. 200 Consumers Road Suite 200	M2J 1P8	(416) 493-9711	06-966-857
COLUMBIA	Bogota	Coasin Ltda Carrera 13 No. 37-37 Oficina 406 Y 407		32 46 06 85 02 30	
ECUADOR	Quito	Proteco-Coasin Cia. Ltda Ave. 6 de Diciembre 865 Y Roca		526-759 529-684	2865
ENGLAND	Newmarket (Suffolk)	Pye Electro-Devices Ltd. Exning Road	CB8 0AX	(0638) 5161	81245 (PYECON)

Continued on next page

FPLC — FERRANTI-PACKARD LTD. (Cont'd)

			Zip Code	Telephone No.	TWX/Telex
ELECTRONICS DIVISION 6030 Ambler Drive, Mississauga, Ontario, Canada			L4W 2P1	(416) 3020	06-961437
FRANCE	Sevres	Takelec Airtronic S.A. Cite des Bruyeres Rue Carle Vernet	92310	027-75-35	250 997/204552
GERMANY	Muenchen 2	Contiflex A.G. Augustenstr. 79	8000	089/524014	529075
INDIA	Fort Bombay	Motwane Private Ltd 127 Mahatma Gandhi Road	400023	273845	112456 MPLIN
ITALY	Milano	Metroelettronica Viale Cirene, 18	20135	546.26.41	312168 Metronic
JAPAN	Tokyo	Sumitomo Corporation 2-2 Hitotsubashi 1 Chome Chiyoda-ku	100	217-6034	J22202
NETHERLANDS	The Hague	Koning en Hartman Elektrotechniek B.V. 30 Koperwerf	2504	678380	31528 (KOHA NL)
SOUTH AFRICA	Johannesburg	Tecnetics (Pty.) Ltd. Post Office Box 56412 Pinegowrie 2123		48 6429	95-82689
SPAIN	Madrid 16	Planigrama Exclusivas Publicitarias S.A. Division Electronica Alberto Alcocer 40		457-15 03	27321
SWEDEN	Vallingby	Walmore Electronics AB Sorterargatan S-162	26	08/38 01 30	17880 (Walmore S)
SWITZERLAND	Kuesnacht-Zurich	Contiflex A.G. Fahnlibrunnenstrasse 3	CH-8700	01/9108181-38	54575 (CFLX CH)

Continued on next page

FPLC — FERRANTI-PACKARD LTD. (Cont'd)

			Zip Code	Telephone No.	TWX/Telex
ELECTRONICS DIVISION 6030 Ambler Drive, Mississauga, Ontario, Canada			L4W 2P1	(416) 3020	06-961437
UNITED STATES	Los Gatos (California)	Luscombe Engineering Co. of San Francisco 248 West Main Street	95030	408-354-6496	910-597-5398
	Pasadena (California)	Luscombe Engineering Company 99 South Chester Avenue	91106	213-684-2000	910-588-3285
	Atlanta (Georgia)	Beacon Electronic Associates 6135 Barfield Road Suite 112	30328	404-393-9880	810-751-3165
	Nashua (New Hampshire	Bell Controls Inc. 111 Lock Street	03060	603-882-6984	710-228-6753
	Mount Vernon (New York)	Sonkin Associates Inc. 10 Fiske Place	10550	914-668-9809	
	Dayton (Ohio)	Berberich Associates 94 Compark Drive Suite 100	45459	513-433-0342	810-450-2643
	Paoli (Pennsylvania)	Tyler Griffin Company 46 Darby Road	19301	215-647-1550	84-52-99
	Richardson (Texas)	Campion Sales Company 506A North Central Expressway	75080	214-238-8145	
	Seattle (Washington)	Delcom Sales Company Inc. 144 SW 153rd Street Post Office Box 66057	98166	206-248-0090	
VENEZUELA	Caracas	Coasin C.A. Apartado 50939 Sabana Grando No. 1	105	782-8741/9101/ 2302/3745	21228

FAIRCHILD

FSC — FAIRCHILD CAMERA & INSTRUMENT CORPORATION

	Zip Code	Telephone No.	TWX/Telex
SEMICONDUCTOR PRODUCTS GROUP 464 Ellis Street, Mountain View, California	94042	415-962-5011	910-379-6435 Cable FAIRSEMCO

GESY — GENERAL ELECTRIC COMPANY

			Zip Code	Telephone No.	TWX/Telex
SEMICONDUCTOR PRODUCTS DEPARTMENT Building 7, MD 49, Electronics Park, Syracuse, New York			13201	315-456-2715	710-541-0498
EUROPE					
IRELAND	Dundalk	International General Electric Company General Electric Marketing		Dundalk 2371 thru 2380	33816

HAFO — ASEA-HAFO AB

	Zip Code	Telephone No.	TWX/Telex
Fack, Vällingby, Sweden	162 10	(08) 89 01 45 (Stockholm)	172 62 hafo S

IPI — INTEGRATED PHOTOMATRIX INC.

	Zip Code	Telephone No.
1101 Bristol Road, Mountainside, New Jersey	07092	201-233-7200

LEE – LEECRAFT MANUFACTURING CO., INC.

			Zip Code	Telephone No.	TWX/Telex
21-46 44th Road, Long Island City, New York			11101	212-392-8800	710-582-2897

MEHK – MICRO ELECTRONICS, LTD.

				Zip Code	Telephone No.	TWX/Telex
38 Hung To Road, Kwun Tong, Kowloon, Post Office Box 9477					K-430181	HX 73510
AUSTRALIA	Sidney (NSW)	M. E. Micro Electronics PTY Ltd.	160 Clarence Street Suite 32	2000	02 290-1924	23361
ENGLAND	Middlesex	York House	Empire Way Wembley		01-903-2721	934263
GERMANY	Munich 40	M. E. Micro Electronics GmbH	Nordenstrasse 1A	8000	188 182 184 640	5216194
U. S. A.	Costa Mesa (Calif.)	Micro Electronics Corporation	3001 Redhill Avenue	92626	714-549-0375	910-595-1759

MOL – MOLECTRON CORPORATION

				Zip Code	Telephone No.	TWX/Telex
DIRECT SALES/SERVICE OFFICE						
177 North Wolfe Road, Sunnyvale, California				94086	408-738-2661	357436
EASTERN REGIONAL OFFICE						
NEW YORK	North Bellmore	Molectron Corporation	1666 Newbridge Road	11710	516-826-8282	
INTERNATIONAL DIRECT SALES/SERVICE OFFICE						
WEST GERMANY/ AUSTRIA	Düsseldorf 30	Molectron GmbH	Westfalenstrasse 23-25	4000	0211-651008/9	841-8586709

Monsanto

MTO – MONSANTO COMPANY

			Zip Code	Telephone No.	TWX/Telex
ELECTRONICS DIVISION WESTERN SALES OFFICE HEADQUARTERS 3400 Hillview Avenue, Palo Alto, California			94304	415-493-3300	
EASTERN REGIONAL SALES OFFICE					
MASSACHUSETTS	Dedham	Monsanto Commercial Products Company 990 Washington Street Suite 302	02026	617-329-1150	
CENTRAL REGIONAL SALES OFFICE					
ILLINOIS	Des Plaines	Monsanto Commercial Products Company 3158 River Road	60018	312-296-6688	
SOUTH EASTERN REGIONAL SALES OFFICE					
FLORIDA	Fort Lauderdale	Monsanto Commercial Products Company 2020 West McNab Road Suite 121	33309	305-973-4640	
EUROPEAN SALES OFFICE					
BELGIUM	Brussels	Monsanto Europe Avenue de Tervuren 270-272	B-1150	762-11-12	

varian

NAT – NATIONAL ELECTRONICS, INC.

	Zip Code	Telephone No.	TWX/Telex
Post Office Box 269, Geneva, Illinois	60134	312-232-4300	910-237-1685

OCLI

OCLI – OCLI PHOTOELECTRONICS DIVISION

	Zip Code	Telephone No.	TWX
15251 East Don Julian Road, City of Industry, California	91746	213-968-6581	910-584-4890

INTERNATIONAL

					Telex
ENGLAND	High Wycombe (Buckinghamshire)	OCLI Europe 621 London Road	HP11 1ET	(0494)36286 High Wycombe	851-83239

PHIN – PHILIPS GLOEILAMPENFABRIEKEN

			Zip Code	Telephone No.	TWX/Telex
ELCOMA MARKETING COMMUNICATIONS Building BA, Eindhoven, Netherlands				(040) 79 11 11	51121
ARGENTINA	Buenos Aires	Fapesa I.y.C Av. Crovara 2550		652-7438/7478	121243
AUSTRALIA	Lane Cove	Philips Industries Holdings, Ltd. Elcoma Division 67 Mars Road	2066 N.S.W.	427 0888	2121503
AUSTRIA	Wien	Ostereichische Philips Bauelemente Industrie G.m.b.H. Triesterstrasse 64	A-1101	62 91 11	11802
BELGIUM	Bruxelles	M.B.L.E. 80 Rue des Deux Gares	B-1070	523 00 00	21420
BRAZIL	Sao Paulo, SP	Ibrape Av. Paulista 2073-S/Loja	284-4511		112 4354
CANADA	Scarborough (Ontario)	Philips Electronics Ltd. Electron Devices Division 601 Milner Avenue	M1B 1M8	292-5161	06-22221
DENMARK	København NV	Miniwatt A/S Emdrupvej 115A	DK-2400	(01) 69 16 22	15310
FINLAND	Helsinki 10	Oy Philips Ab Elcoma Division Kaivokatu 8	SF-00100	1 72 71	12811
FRANCE	Paris 11	R.T.C. (RTCF)* La Radiotechnique Compelec 130 Avenue Ledru Rollin	F-75540	355-44-99	680495
GERMANY	Hamburg 1	VALVO (VALG)* UB Bauelemente der Philips GmbH Valvo Haus Burchardstrasse 19	D-1	(040)3296-1	2161891

* Manufacturer code inside ( ) can be found in Section 52, Manufacturers' Codes, Names & Addresses

Continued on next page

PHIN – PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

			Zip Code	Telephone No.	TWX/Telex
ELCOMA MARKETING COMMUNICATIONS Building BA, Eindhoven, Netherlands				(040) 79 11 11	51121
HONG KONG	**Kwai Chung, N.T. (K.C.T.L.)**	Philips Hong Kong Ltd. Components Dept. Philips Industrial Bldg. Kung Yip Street	289	12-24 51 21	3660
ITALY	**Milano**	Philips S.p.A. Sezione Elcoma Piazza IV Novembre 3	I-20124	2-6994	36262
JAPAN	**Tokyo**	Nihon Philips Corporation Shuwa Shinagawa Bldg. 26-33 Takanawa, 3-chome Minato-ku	108	(448) 5611	7226388
KOREA	**Seoul**	Philips Electronics (Korea) Ltd. Philips House-Elcoma Division 260-199 Itaewon-dong Yongsan-ku		794-4202	
MEXICO	**Mexico 6, D.F.**	Electronica S.A. de C.V. Varsovia No. 36		533-11-80	221771227
NETHERLANDS	**Eindhoven**	Philips Nederland B.V. Afd. Elonco Boschdijk 525	5600 PD	(040) 79 33 33	51238
NEW ZEALAND	**Auckland**	Philips Electrical Industries Ltd. Elcoma Division 2 Wagener Place - St. Lukes		867119	2312
NORWAY	**Oslo 3**	Norsk A/S Philips Electronica Dept. Sørkedalsveien 6		46 3890	16565
SOUTH AFRICA	**Johannesburg**	EDAC (Pty.) Ltd. South Park Lane New Doornfontein	2001	24/6701	95437786
SPAIN	**Barcelona 7**	Copresa S.A. Balmes 22		301 63 12	54666

Continued on next page

PHIN – PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

			Zip Code	Telephone No.	TWX/Telex
ELCOMA MARKETING COMMUNICATIONS Building BA, Eindhoven, Netherlands				(040) 79 11 11	51121
SWEDEN	Stockholm 27	A. B. Elcoma Lidingovagen 50	S-11584	08/679780	10776
SWITZERLAND	Zurich	Philips A. G. Elcoma Dept. Allmendstrasse 140-142	CH-8027	01/43 22 11	59280
TAIWAN	Taipei	Philips Taiwan Ltd. Elcoma Division San Min Bldg., 3rd Floor 57-1 Chung Shan N. Road Section 2		55 13101-5	734
UNITED KINGDOM	London	Mullard Ltd. Mullard House Torrington Place	WC1E 7HD	01-580-6633	264341
UNITED STATES	Rhode Island	Amperex Electronic Corporation (APX)*... Sem. & Microcircuits Division Providence Pike, Slatersville	02876	401-762-9000	92-7584

* Manufacturer code inside ( ) can be found in Section 52, Manufacturers' Codes, Names & Addresses

PLOB – PLESSEY OPTOELECTRONICS AND MICROWAVE

			Zip Code	Telephone No.	TWX/Telex
Wood Burcote Way, Towcester, Northants, England			NN12 7JN	0327-51871	311442
UNITED STATES					
CALIFORNIA	Irvine	Plessey Optoelectronics 1641 Kaiser	92714	714-540-9934	910-595-1930

REA – READOUTS, INC.

	Zip Code	Telephone No.
Post Office Box 149, Del Mar, California	92014	714-755-2641

RTCF – R.T.C. LA RADIOTECHNIQUE–COMPELEC

	Zip Code	Telephone No.	TWX/Telex
130, Avenue Ledru-Rollin, Paris Cedex 11, France	75.540	355-44-99	PHILAMP PARIS 280 746

SAI – SANDERS ASSOCIATES, INC.

	Zip Code	Telephone No.	TWX/Telex
DEFENSIVE SYSTEMS DIVISION 95 Canal Street, Nashua, New Hampshire	03061	603-885-3010	710-228-1894 094-3430

SPT – SPECTRONICS, INC.

	Zip Code	Telephone No.
830 East Arapaho Road, Richardson, Texas	75081	214-234-4271

TWLT – TAIWAN LITON ELECTRONIC CO., LTD.

	Zip Code	Telephone No.	TWX/Telex
10th Floor, 74, Sec. 2, Hsin Yi Road, Taipei, Taiwan, R.O.C.	106	3417291-4	24514 TWLITON

HONG KONG	Kowloon	Jers Electronic Company, Ltd. Room 2309-2311, Park-In Comm. Centre 56, Dundas Street		3-315257/0	85450 JERSE HX
JAPAN	Tokyo	Sherman Trade & Enterprises, Inc. Room 1207 Nita Shasta Mansion Building No. 1-35, 4-chome Mita Minato-Ku		(454) 4191	SHERMAN J24615
SINGAPORE	Singapore	Dynamar International Ltd Room 526, Cuppage Centre Cuppage Road	9	2351139 2351623	DYNAMA RS26283
UNITED STATES	Van Nuys (California)	Industrial Electronic Engineers, Inc. 7740 Lemona Avenue	91405	213-787-0311	910-495-1753

51. MANUFACTURERS' LOGOS

IN MFR. CODE ORDER

ABI — Ashley-Butler

TFK

(Product Identifier)

ALGG — AEG-Telefunken

AMEN — Aksjeselskapet Mikro-Elektronikk

AND — And Inc.

APX — Amperex Electronics Corp.

BAR — Barnes Engineering Co.

BBCS — BBC Brown, Boveri & Co., Ltd.

BEC

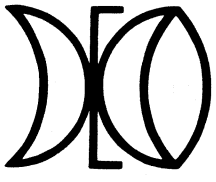
BECK — Beckman Instruments Inc.

BUR — Burroughs Corp.

CENB — Centronic (T.C. Centronic Ltd.)

51. MANUFACTURERS' LOGOS

IN MFR. CODE ORDER

CHERRY®	CLAIREX ELECTRONICS.	CRYSTALOID ELECTRONICS
CHE — Cherry Semiconductor Corp.	CLA — Clairex Electronics	CRS — Crystaloid Electronics Co.
D C C		DIALIGHT
DCO — Digital Components Corp.	DECO — Digital Electronics Corp.	DIA — Dialight Corp.
EG&G	ELTEC	ELCOMA
EGG — EG & G, Electro Optics Div.	EII — Eltec Instruments Inc.	ELMA — Elcoma
	Aeronutronic Ford	
	FACC — Ford Aerospace & Communications Corp.	

FERRANTI
Electronic Systems

FERB — Ferranti Electronics Ltd.

FERRANTI
FP
PACKARD

FPLC — Ferranti-Packard Ltd.

FAIRCHILD

FSC — Fairchild Camera & Instrument Corp.

GESY — General Electric Co.

HAMLIN

HAM — Hamlin Inc.

HEWLETT hp PACKARD
COMPONENTS

HPA — Hewlett Packard

IAV

IAV — International Audio Visual Inc.

IEE

IEE — Industrial Electronic Engineers Inc.

IOR

INR
INRB
INRI
INRJ — International Rectifier Corp.

IPI

IPI — Integrated Photomatrix Inc.

IRI – Infrared Industries Inc.

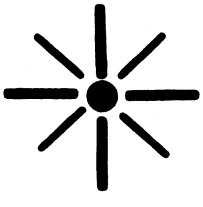
ITT – ITT Semiconductors
Intermetall

LAD – Laser Diode Laboratories Inc.

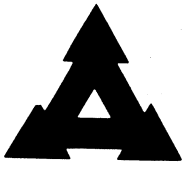
LCO – Tem-Pres Div./Leco Corp.

LEE – Leecraft Mfg. Co., Inc.

LIX – Litronix Inc.



MAI – Math Associates Inc.



MATJ – Matsushita Electronics Corp.

MEHK – Micro Electronics Ltd.

MELJ – Moririca Electronics Ltd.

51. MANUFACTURERS' LOGOS

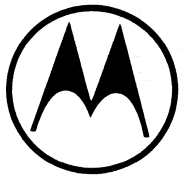
IN MFR. CODE ORDER

MERET INC.

MER — Meret Inc.

Molectron

MOL — Molectron Corp.



MOTA — Motorola Semiconductor Products

Monsanto

MTO — Monsanto Commercial Products Co.

MULB — Mullard Ltd.

NAT — National Electronics Inc.

NEC

NECJ — Nippon Electric Co.

Noritake

NEIJ — Noritake Co., Ltd.

(Product Identifier)

NPC — Nucleonic Products Co.

NSC — National Semiconductor Corp.

51. MANUFACTURERS' LOGOS

IN MFR. CODE ORDER

NSL — National Semiconductors Ltd.

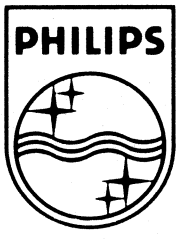
OCLI — Optical Coating Laboratory Inc.

OPC — Opcoa- Division of AVX Corp.

OPE — Optoelectronics Inc.

OPI — Optron Inc.

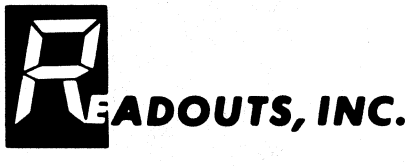
OTI — Opto Technology Inc.



PHIN — N. V. Philips Gloeilampenfabrieken

PLOB — Plessey Optoelectronics & Microwave

RCA — RCA Corp.



REA — Readouts Inc.

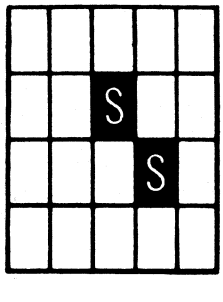
51. MANUFACTURERS' LOGOS

IN MFR. CODE ORDER

REFAC REC — Refac Electronics Corp.	RETICON RET — EG & G Reticon	ROFIN ROF — Rofin Inc.
RTC RTCF — R.T.C. La Radio Technique-Compelec	RAYTHEON RTN — Raytheon Company	SA SANDERS ASSOCIATES, INC. SAI — Sanders Associates Inc.
SKAN-A-MATIC CORP. SAM — Skan-a-Matic Corp.	SBRC SBR — Santa Barbara Research Center	SIEMENS *(Product Identifier)* SIEG — Siemens Aktiengesellschaft
	sensors, inc. SNI — Sensors Inc.	

51. MANUFACTURERS' LOGOS

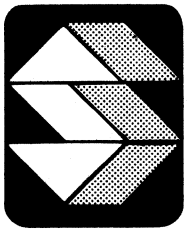
IN MFR. CODE ORDER



SOL — Silicon Sensors

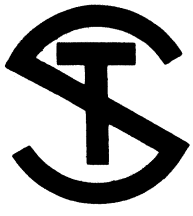
SONY®

SONY — Sony Corp.

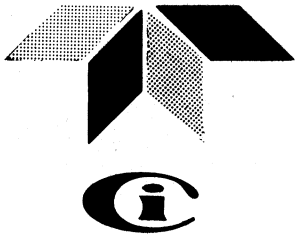


SPT — Spectronics Inc.

SSCF — Silec-Semi-Conducteurs



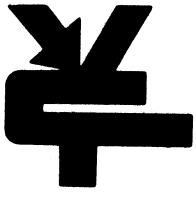
STE — Sensor Technology Inc.



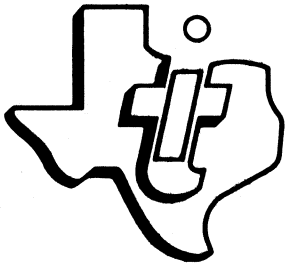
(Product Identifier)

TCY — Teledyne Crystalonics

THCF — Thomson-CSF



THCI — Thomson-CSF Componenti



TII — Texas Instruments

Toshiba TOSHIBA

TOSJ — Toshiba Corp.

TCI

TSP – Transparent Conductors Inc.

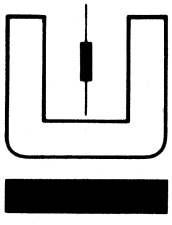
LITON LED

TWLT – Taiwan Liton Electronic Co., Ltd.

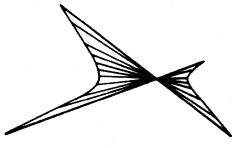
UCE

UCE – UCE Inc.

UDT – United Detector Technology Inc.



UNI – Unitrode Corp.



VAC – Vactec Inc.

Xciton

XCI – Xciton Corp.

52. MANUFACTURERS' CODES, NAMES & ADDRESSES

MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS.' CODE			
		ABI	*	–	Ashley-Butler, Inc., 208 U.S. Highway 206S, Somerville, NJ 08876
	D1597–	**ALGG**	*	–	**AEG-Telefunken, D-7100 Heilbronn, Postfach 1109, West Germany**
	N0602–	AMEN	*	–	AME Aksjeselskapet Mikro-Elektronikk, Knudsrudvn, 3191 Horten, Norway
		AND	*	–	**AND, Inc., Div. of Wm. J. Purdy Co., 770 Airport Blvd., Burlingame, CA 94010**
CEP –	25403–	**APX**	*	–	**Amperex Electronics Co., Slatersville Div., Providence Pike, Slatersville, RI 02876**
	00430–	BAR	*	–	Barnes Engineering Co., Dept. EM, 30 Commerce Rd., Stamford, CT 06904
	S3771–	**BBCS**	*	–	**BBC Brown, Boveri & Co., Ltd., CH5401, Baden, Switzerland**
	52536–	BEC	*	–	Beckman Instruments, Inc., 350 North Hayden Rd., Scottsdale, AZ 85257
	73138–	BECK	*	–	Beckman, 2500 Harbor Blvd., Fullerton, CA 92634
	83594–	BUR	*	–	Burroughs Corp., Electronic Components Div., P.O. Box 1226, Plainfield, NJ 07061
		CENB	*	–	**Centronic (TC Centronic Ltd.), King Henry's Dr., New Addington, Croydon, CR9 0BG, England**
		CHE	*	–	**Cherry Semiconductor Corp., 99 Bald Hill Rd., Cranston, RI 02920**
	71744–	CHM		–	Chicago Miniature Lamp Works, 4433 No. Ravenswood Ave., Chicago, IL 60640
	03911–	**CLA**	*	–	**Clairex Electronics, Div. of Clairex Corp., 560 So. Third Ave., Mt. Vernon, NY 10550**
	33163–	CPD		–	Control Products Div., Devar Inc., 706 Bostwick Ave., Bridgeport, CT 06605
		CRS	*	★	Crystaloid Electronics Co., P.O. Box 628, Hudson, OH 44236
		DCO	*	–	Digital Components Corp., 19 Grant St., Linden, NJ 07036
		DECO	*	–	**Digital Electronics Corp., 197 Airport Blvd., Burlingame, CA 94010**
	72619–	DIA	*	–	Dialight Corp., 203 Harrison Pl., Brooklyn, NY 11237
		DNPJ		–	Dai Nippon Printing Co., c/o Nichimen Co., Inc., 1185 Ave. of the Americas, New York, NY 10036
	56040–	EEP		–	Energy Electronic Products Corp., 6060 Manchester Ave., Los Angeles, CA 90045
	25506–	EGG	*	–	EG & G, Electro Optics Div., 35 Congress St., Salem, MA 01970
		EII	*	–	Eltec Instruments Inc., P.O. Box 9610, Central Business Park, Daytona Beach, FL 32020
	Z3537–	ELMA	*	–	Elcoma, 67-71 Mars Rd., Lane Cove, N.S.W., 2066, Australia
	09205–	FACC	*	–	Ford Aerospace & Communication Corp., Ford Rd., Newport Beach, CA 92663
	K1196–	**FERB**	*	–	**Ferranti Electronics Ltd., Fields New Rd., Chadderton, Oldham OL9 8NP, England**
		FPLC	*	★	**Ferranti-Packard Ltd., 6030 Ambler Dr., Mississauga, Ontario L4W 2P1, Canada**
CFJ –	07263–	**FSC**	*	–	**Fairchild Camera & Instrument Corp., Semicon. Prod. Group, 464 Ellis St., Mountain View, CA 94042**
CG –	08838–	**GESY**	*	–	**General Electric Company, P.O. Box 44, West Genesee Street, Auburn, NY 13021**
		HAFO		–	**ASEA-HAFO AB, Fack, S-162 10, Vallingby 1, Sweden**
	12617–	HAM	*	–	Hamlin, Inc., Lake and Grove Streets, Lake Mills, WI 53551
	50521–	HEI		–	HEI, Inc., Jonathan Industrial Center, Chaska, MN 55318
CAQI –	50434–	HPA	*	–	Hewlett Packard, Optoelectronics Div., 640 Page Mill Rd., Palo Alto, CA 94304
	54824–	IAV	*	–	International Audio Visual, Inc., 15818 Arminta St., Van Nuys, CA 91406
	05464–	IEE	*	–	Industrial Electronic Engineers, Inc., 7720-40 Lemona Ave., Van Nuys, CA 91405

★ **New Manufacturers**

* **See Section 51 for Manufacturers' Logos**

Manufacturers shown in bold print have sales offices which are included in SECTION 50

MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS (Cont'd)

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS.' CODE		
CCBS –	81483 –	INR	* –	International Rectifier, Semicon. Div., 233 Kansas St., El Segundo, CA 90245
	K0512–	INRB	* –	International Rectifier, Hurst Green, Oxted, Surrey RH8 9BB, England
	A2849–	INRI	* –	International Rectifier Corp., Italiano S.p.A., Via Privata Liguria 49, 10071 Borgaro Torinese, Italy
		INRJ	* –	International Rectifier Corp., Japan Ltd., Daiei Bldg., No. 23-7 Shinjuku 3-chome, Shinjuku-ku, Tokyo 160, Japan
		IPI	* –	**Integrated Photomatrix, Inc., 1101 Bristol Rd., Mountainside, NJ 07092**
		IRI	* –	Infrared Industries, Inc., 62 Fourth Ave., Waltham, MA 02154
	D8849–	ITT	* –	ITT Semiconductors Intermetall, P.O. Box 840, D-7800 Freiburg I Br, West Germany
		LABF	–	Laboratoires de Marcoussis, Centre de Recherches de la Compagnie Generale d'Electricite, Route de Nozay, 91460, Marcoussis, France
		LAD	* –	Laser Diode Laboratories, Inc., 205 Forrest St., Metuchen, NJ 08840
		LCO	* –	Leco Corp., Tem-Pres Div., 1526 William St., State College, PA 16801
		LEE	* –	**Leecraft Manufacturing Co., Inc., 21-46 44th Rd., Long Island City, NY 11101**
	50579 –	LIX	* –	Litronix, Inc., 19000 Homestead Rd., Cupertino, CA 95014
		LXD	–	Liquid Xtal Displays, Inc., 24500 Highpoint Rd., Cleveland, OH 44122
		MAI	*★	Math Associates, Inc., 376 Great Neck Rd., Great Neck, NY 11021
	01619 –	MATJ	* –	Matsushita Electronics Corp., (Panasonic), Kotari Yakemachi, Nagaokakyo City, Kyoto, Japan
	Z2458–	**MEHK**	* –	**Micro Electronics Ltd., 38 Hung To Rd., Kwun Tong, Kowloon, Hong Kong**
		MELJ	* –	Moririca Electronics Ltd., 205 Totsuka-cho, Totsuka-ku, Yokohama, Japan
	53071 –	MER	* –	Meret, Inc., 1815 24th St., Santa Monica, CA 90404
	55621 –	MII	–	Micon Industries, 252 Oak St., Oakland, CA 94607
		MOL	* –	**Molectron Corp., 177 N. Wolfe Rd., Sunnyvale, CA 94086**
CGG –	04713 –	MOTA	* –	Motorola Semiconductor Products, 5005 E. McDowell Rd., M370, Phoenix, AZ 85008
	50522 –	**MTO**	* –	**Monsanto Commercial Products Co., 3400 Hillview Ave., Palo Alto, CA 94304**
	K8996–	MULB	* –	Mullard, Ltd., Mullard House, Torrington Pl., London WC1E 7HD, England
	83781 –	**NAT**	* –	**National Electronics Inc., Varian Div., P.O. Box 269, Geneva, IL 60134**
	S0543 –	NECJ	* –	Nippon Electric Co., Ltd., Semicon. & IC Sales Dept., 1753 Shimonumabe, Nakahara-Ku, Kawasaki City, Kanagawa Pref., Japan
		NEIJ	*★	Noritake Co., Ltd., Electronics Div., 1-1 Noritake Shimachi, Nishi-ku, Nagoya, Japan
	08257 –	NPC	* –	Nucleonic Products Co., Inc., 6660 Variel Ave., Canoga Park, CA 91304
CCXP –	27014 –	NSC	* –	National Semiconductor Corp., 2900 Semiconductor Dr., Santa Clara, CA 95051
		NSL	* –	National Semiconductors, Ltd., 331 Cornelia St., Plattsburgh, NY 12901
	11536 –	**OCLI**	* –	**OCLI Photoelectronics Division, 15251 E. Don Julian Rd., City of Industry, CA 91746**
	50347 –	OPC	* –	OPCOA, Div. IDSI, 330 Talmadge Rd., Edison, NJ 08817
	54243 –	OPE	* –	Optoelectronics, Inc., 1309 Dynamic St., Petaluma, CA 94952
CDTF –	32694 –	OPI	* –	Optron, Inc., 1201 Tappan Circle, Carrollton, TX 75006
		OTI	* –	Opto Technology, Inc., 1674 S. Wolf Rd., Wheeling, IL 60090
		PAN	–	Pantek International Corp., P.O. Box 587, Lewistown, PA 17044
	H0002–	**PHIN**	* –	**N. V. Philips Gloeilampenfabrieken, Elcoma Tech. Dept., Bldg. BA, Eindhoven, Netherlands**

★ **New Manufacturers**

* **See Section 51 for Manufacturers' Logos**

#: CODE CHANGE THIS EDITION

Old: INTG – Intermetall

New: ITT – ITT Intermetall

Manufacturers shown in bold print have sales offices which are included in SECTION 50

MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS (Cont'd)

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS.' CODE			
	K8747–	**PLOB**	*	–	**Plessey Optoelectronics & Microwave, Wood Burcote Way, Towcester, Northamptonshire, U.K.**
CRC –	95444–	RCA	*	–	RCA, Solid State Division, Route 202, Somerville, NJ 08876
	52923–	**REA**	*	–	**Readouts, Inc., P.O. Box 149, Del Mar, CA 92014**
	28564–	REC	*	–	Refac Electronics Corp., P.O. Box 809, Winsted, CT 06098
	56025–	RET	*	–	EG & G Reticon, 345 Potrero Ave., Sunnyvale, CA 94086
		ROF	*	★	Rofin, Inc., Echo Bridge Office Park, 381 Elliott St., Newton Upper Falls, MA 02164
	12556–	**RTCF**	*	–	**R. T. C. LaRadio Technique-Compelec, 130 Av. Ledru-Rollin, 75540 Paris, Cedex 11, France**
CRP –	94144–	RTN	*	–	Raytheon Company, Microwave & Power Tube Div., 465 Center St., Quincy, MA 02169
		SAI	*	–	**Sanders Associates, Inc., Defensive Systems Div., 95 Canal St., Nashua, NH 03061**
	51522–	SAM	*	–	Skan-A-Matic Corp., P.O. Box S, Route 5 West, Elbridge, NY 13060
	11323–	SBR	*	–	Santa Barbara Research Center, 75 Coromar Dr., Goleta, CA 93017
	92346–	SIEG	*	–	Siemens AG, BVOE FHL, Munchen 80, Sankt. Martin Str., 76, Germany
		SNI	*	–	Sensors, Inc., P.O. Box 1383, Ann Arbor, MI 48106
	54822–	SOL	*	–	Silicon Sensors, Inc., (formerly Solar Systems, Inc), Highway 18 East, Dodgeville, WI 53533
		SONY	*	★	Sony Corporation, Box 10, Tokyo A.P., Atsugi-HANJI, Gaimu-ku, Tokyo 149, Japan
	32388–	**SPT**	*	–	**Spectronics, Inc., 830 E. Arapaho Rd., Richardson, TX 75080**
	S4117–	SRPJ		–	Sharp Corp., 2613-1, Ichinomotocho, Tenrishi, Nara-Prefecture, Japan
	16402–	SSCF	*	–	Le Silicium Semiconducteur, 30 Ave. de la Republique, 94800 Villejuif, France
	29927–	STE	*	–	Sensor Technology, Inc., 21012 Lassen St., Chatsworth, CA 91311
CCZK –	12498–	TCY	*	–	Teledyne Crystalonics, 147 Sherman St., Cambridge, MA 02140
	F5602–	THCF	*	–	Thomson-CSF, Div. Semiconducteurs SESCOSEM, 50, rue Jean Pierre Timbaud, BP5, 92403 Courbevoie, France
		THCI	*	–	Thomson-CSF Componenti, Divisione Semiconduttori, Via Melchiorre Gioia, 72, 20125 Milano, Italy
CGO –	01295–	TII	*	–	Texas Instruments, Inc., Components Group, MS84, P.O. Box 5012, Dallas, TX 75222
	K0461–	TIIB		–	Texas Instruments Ltd., Manton Lane, Bedford, MK41 7PA, Bedford, England
	S0557–	TOSJ	*	–	Toshiba Corporation, 72 Horikawa-cho, Saiwai-ku, Kawasaki-City, Kanagawa, 210, Japan
		TSP	*	–	Transparent Conductors, Inc., 26 Coromar Dr., P.O. Box 549, Goleta, CA 93017
		TWLT	*	★	**Taiwan Liton Electronic Co., Ltd., 74, Sec. 2, HSIN YI Rd., Taipei, Taiwan, R.O.C.**
		UCE	*	–	Uce, Inc., 20 No. Main St., Norwalk, CT 06854
	50486–	UDT	*	–	United Detector Technology, Inc., 2644 30th St., Santa Monica, CA 90405
CDAS –	12969–	UNI	*	–	Unitrode Corp., 580 Pleasant St., Watertown, MA 02172
		USSR		–	V/O Electronorgtechnica, Smolenskaja Pl. 32/34, Moscow 121200, U.S.S.R.
		VAC	*	–	Vactec, Inc., 2423 Northline Industrial Blvd., Maryland Heights, MO 63043
	53184–	XCI	*	–	Xciton Corporation, Shaker Park, 5 Hemlock St., Latham, NY 12110

★ **New Manufacturers**

* **See Section 51 for Manufacturers' Logos**

#: CODE CHANGE THIS EDITION

Old: MISI – Sescosem Italiana

New: THCI – Thomson-CSF

Manufacturers shown in bold print have sales offices which are included in SECTION 50