

Semiconductor Reference Guide

INCLUDES OVER 100,000 SEMICONDUCTOR SUBSTITUTIONS



1984 EDITION

ARCHER®

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INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 100,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

NOTE: If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented.

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in **every** instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconductor devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimenter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N—numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 82,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

When cutting transistor leads, use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

It is always a good practice to use a heat-sink tool on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

OPERATING CONSIDERATIONS

Before replacing an original-equipment device with the recommended Archer Type:

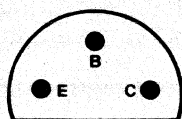
(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or ter-

minimal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

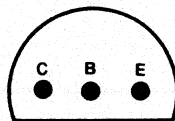
CAUTION: Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Doublecheck both the original and the replacement device before soldering or plugging in transistors.**

BOTTOM VIEW

PIN-CIRCLE



IN-LINE



(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a tuned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, specially in FM radios and TV Receivers. Failure to

observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.
2. Never, apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.
3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.
4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.
5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with longnose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semi-

conductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based on **electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

I. In-Circuit Testing

A. First, check to see if the emitter-base junction is

forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the - battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

A. Small Signal PNP Germanium Transistors

1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

B. Small Signal NPN Germanium Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

C. Power PNP Germanium Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
2. Connect the negative lead to the collector. The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

D. Power NPN Germanium Transistors

Reverse the polarity of the leads; the reading should be approximately the same.

E. Small Signal PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

F. Small Signal NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

G. Power PNP Silicon Transistors

1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

H. Power NPN Silicon Transistors

Reverse the polarity of the leads; the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures should be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.

2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.

3. Transient voltages may cause permanent damage to the device if it is removed or inserted with the power on.

4. Do not apply signals to the input with the power supply off.

5. All unused input leads must be connected to either VSS or VDD (whichever is appropriate for the logic circuit involved).

DIODES AND RECTIFIERS

GENERAL PURPOSE DIODES RATINGS @ 25°C

Catalog Number	PIV (min) V	If A	Ir (max) @ Vr μA	Vf (max) @ If V	Case Style
276-1101	50	1.000	10	1.6	DO41
276-1102	200	1.000	10	1.6	DO41
276-1103	400	1.000	10	1.6	DO41
276-1104	600	1.000	10	1.6	DO41
276-1114	1000	2.500	200	1.0	A1vm
276-1122	75	0.010	250nA	1.0	A1
276-1123	60	0.085	15	1.0	A1
276-1124	5	0.010	100nA	0.340	A4
276-1141	50	3.000	500	1.2	A3q
276-1143	200	3.000	500	1.2	A3q
276-1144	400	3.000	500	1.2	A3q

ZENER DIODES—1 Watt

Catalog Number	Vz Volts ±10%	Iz @ mA	Zz @ Iz ohms max	Case Style
276-561	6.2	41	2	DO41
276-562	9.1	25	7	DO41
276-563	12.0	21	9	DO41
276-564	15.0	17	14	DO41
276-565	5.1	49	7	DO41

BRIDGE RECTIFIERS

Catalog Number	PIV (min) V	If (max) A	Case Style
276-1146	50	4	M532a
276-1151	50	1.4	M548
276-1152	100	1.4	M548
276-1161	50	1	Y1
276-1171	100	4	M532a
276-1173	400	4	M532a
276-1180	50	6	M532a
276-1185	50	25	—

BIPOLAR TRANSISTORS

Catalog Number	Direct Commercial Equivalent	Mat.	Appl.	Polarity	Power Diss. @25°C Free Air	f _T Typical MHz	V _{CE0} V	V _{CE0} V	V _{EB0} V	I _C Max	I _B Max	h _{FE}	@V _{CE} V	@I _C mA	I _{CBO} at max V _{CE}	Case Style
276-2007	2N1305	G	S	PNP	150mW	5	30	—	25	300mA	—	40	1	10	6μA	TO5
276-2009	MPS2222A	S	G.P.	NPN	500mW	300	75	40	6	800mA	—	50	10	1	10nA	TO92
276-2010	PN2484	S	LL	NPN	350mW	15	60	60	6	50mA	—	250	5	1	10nA	TO92
276-2016	MPS3904	S	S	NPN	350mW	300	60	40	6	200mA	—	100	10	1	50nA	TO92
276-2017	TIP31	S	P	NPN	40W†	3	40	40	5	3A	1A	10-50	4	3A	300μA	TO220AB-2
276-2020	TIP3055	S	P	NPN	90W†	3	100	70	7	15A	7A	20	4	4A	1mA	TO220
276-2023	MPS2907	S	S	PNP	400mW	200	60	40	5	600mA	—	50	10	1	20nA	TO92
276-2027	MJE34	S	P	PNP	90W†	3	40	40	5	10A	3A	20-100	4	3A	220μA	TO220
276-2030	2N3053	S	P	NPN	1W	100	60	40	5	700mA	—	50	10	150	—	TO5
276-2032	MPS3638	S	RF/IF	PNP	350mW	100	25	25	4	500mA	—	30	3	10	10nA	TO92
276-2041	2N3055	S	P	NPN	115W†	2.5	100	60	7	15A	7A	50	4	1A	—	TO3
276-2043	MJ2955	S	P	PNP	150W†	4	100	60	7	15A	7A	70	10	0.5	—	TO3
276-2044	MPF901	S	UHF	NPN	300mW	2500	25	15	2	30mA	—	80	5	5	50nA	MACRO-X
276-2048	2SD313	S	P	NPN	30W†	8	60	60	5	3A	—	40-320	2	1	100μA	TO220
276-2051	2SC945	S	G.P.	NPN	250mW	250	60	50	5	100mA	—	60-600	6	1	100nA	TO92J
276-2055	2SC1308	S	SW	NPN	50W†	—	1400	400	6	7A	0.8A	3	2	4A	5mA	TO3
276-2057	2N4124	S	G.P.	NPN	350mW	300	30	25	5	200mA	—	480	10	2	0.1μA	TO92
276-2058	2N4401	S	G.P.	NPN	350mW	250 min.	40	60	6	600mA	—	500	10	1	0.1μA	TO92
276-2059	MPSA06	S	P	NPN	625mW	100	80	80	4	500mA	—	50 min.	1	100	0.1μA	TO92
276-2060	MPSA13	S	P*	NPN	625mW	2	30	30	10	500mA	—	10,000	5	100	100nA	TO92
276-2061	MPSA42	S	G.P.	NPN	625mW	50	300	300	6	500mA	—	40 min.	10	30	0.1μA	TO92
276-2068	TIP120	S	P	NPN	65W†	0.1	60	60	5	5A	120mA	2500	3	500	0.2mA	TO220AB-2

NOTE: All ratings given are for 25°C except where otherwise noted.

†With heat sink.

MATERIAL:

S—Silicon; G—Germanium

APPLICATION:

S—Switch

G.P.—General purpose

P—Power amp/switch

RF/IF—RF/IF frequency

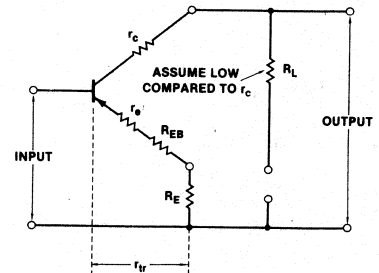
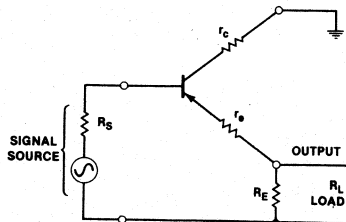
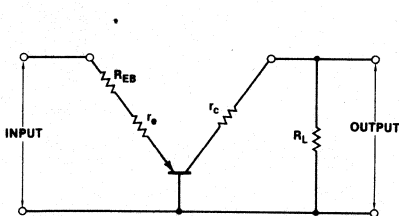
*—High Gain Darlington

UHF—Ultrahigh frequency

LL—Low Level

SW—TV Sweep

USEFUL INFORMATION



Parameters of Common-Base Circuit

Input Impedance $Z_{in} = r_E$

Load Impedance $Z_L = R_L$ in parallel with input impedance of following stage.

Current Gain $A_i = \alpha = \frac{\beta}{1 + \beta}$
(In practice, α is 0.95 to 0.995, or approximately 1.)

Voltage Gain $A_v \approx \frac{Z_L}{r_E} = g_m Z_L$

Parameters of Common-Collector Circuit

Input Impedance $Z_{in} = (\beta + 1)Z_L$
where,
 Z_L is R_L in parallel with R_E .

Output Impedance $Z_{out} = \frac{R_S}{\beta + 1}$
where,
 R_S is the output impedance of the signal source.

Current Amplification $A_i \approx \beta$

Voltage Amplification $A_v =$ Less than unity

Parameters of Common-Emitter Circuit

Input Impedance $Z_{in} = h_{ie} r_E$

Load Impedance $Z_L = R_L$ in parallel with input impedance of next stage.

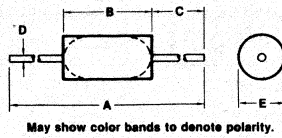
Current Gain $A_i = \frac{\Delta I_C}{\Delta I_B} = h_{fe}$
where,
 $h_{fe} = \beta = \frac{I_C}{I_B} = \frac{\alpha}{1 - \alpha}$

Voltage Gain $A_v = \frac{\Delta V_C}{\Delta V_B} = \frac{Z_L}{r_E} = g_m Z_L$

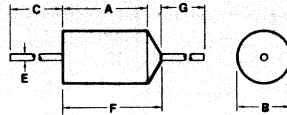
Power Gain $A_p = \frac{V_{out} I_{out}}{V_{in} I_{in}} = \beta \frac{Z_L}{r_E}$

QUICK CASE REFERENCE

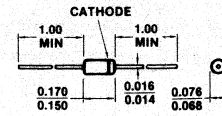
A1



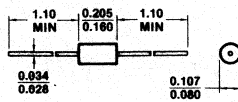
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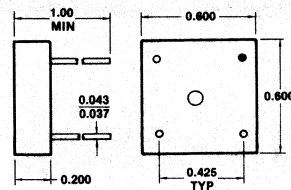
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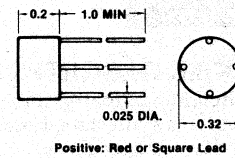
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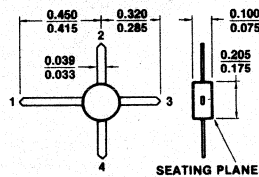
M532A



M548

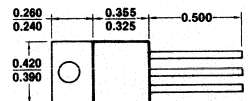


MACRO-X



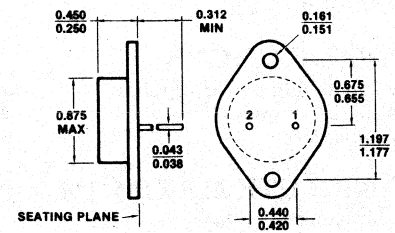
1-COLLECTOR
2-EMITTER
3-BASE
4-EMITTER

MU27



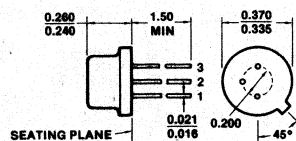
SCR	TRIAC
1-CATHODE	1-ANODE 1
2-ANODE	2-ANODE 2
3-GATE	3-GATE

TO3



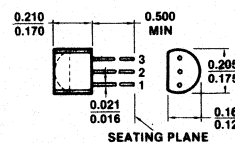
1-BASE
2-EMITTER
CASE-COLLECTOR

TO5



1-EMITTER
2-BASE
3-COLLECTOR

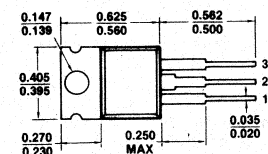
TO92



N-CHANNEL FET	UNIUNCTION	BIPOLAR	BIPOLAR J*
1-SOURCE	1-BASE 1	1-EMITTER	1-EMITTER
2-GATE	2-EMITTER	2-BASE	2-COLLECTOR
3-DRAIN	3-BASE 2	3-COLLECTOR	3-BASE

* Japanese device types

TO220



BIPOLAR	TRIAC
1-BASE	1-ANODE 1
2-COLLECTOR	2-ANODE 2
3-EMITTER	3-GATE

QUICK CASE REFERENCE

<p>TO220AB</p> <p>1-GATE 2-DRAIN 3-SOURCE</p>	<p>TO220AB-2</p> <p>1-BASE 2-COLLECTOR 3-EMITTER 4-COLLECTOR</p>	<p>Y1</p>
--	---	------------------

SPECIAL TRANSISTOR (N-CHANNEL MOSFET)

IRF511

276-2072

N-CHANNEL MOSFET TRANSISTOR

GENERAL DESCRIPTION

The efficient geometry and unique processing of the HEXFET design achieve very low on-state resistance combined with high transconductance and great device ruggedness.

This transistor also features all of the well established advantages of MOSFETs such as voltage control, freedom from second breakdown, very fast switching, ease of paralleling, and temperature stability of the electrical parameters.

FEATURES

- Fast switching
- Low drive current
- Ease of paralleling
- No second breakdown
- Excellent temperature stability

APPLICATIONS

- Switching power supplies
- Motor controls
- Inverters
- Choppers
- Audio amplifiers
- High energy pulse circuits

ABSOLUTE MAXIMUM RATINGS

Drain-Source Voltage, V_{DS}	60V
Drain-Gate Voltage ($R_{GS} = 1 \text{ M}\Omega$), V_{DGR}	60V
Gate-Source Voltage, V_{GS}	$\pm 20\text{V}$
Continuous Drain Current, I_D @ $T_C \cong 86^\circ\text{C}$	3A
Pulsed Drain Current, I_{DM}	8A
Maximum Power Dissipation, P_D	20W
Linear Derating Factor	0.16W/K
Inductive Current, Clamped, I_{LM} (See Fig. 1) $L = 100 \mu\text{H}$	8A
Operating Temperature Range, T_J	-55 to $+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55 to $+150^\circ\text{C}$

TEST CIRCUITS

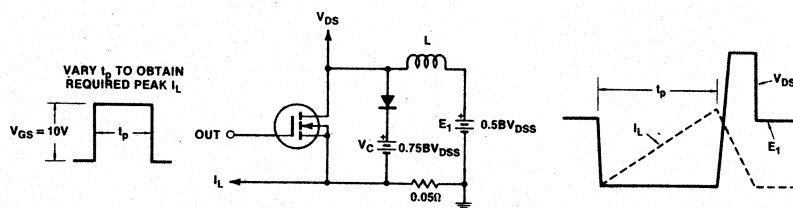


Figure 1—Clamped Inductive Test Circuit and Waveform

PIN CONNECTION

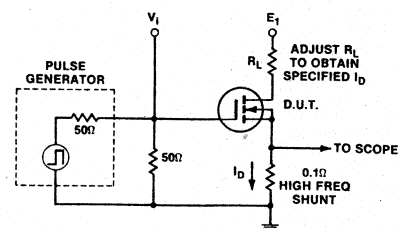
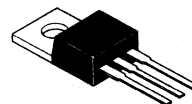
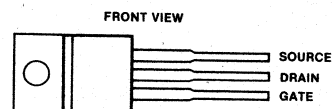
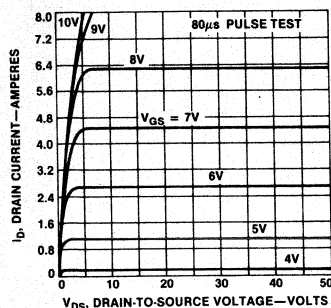
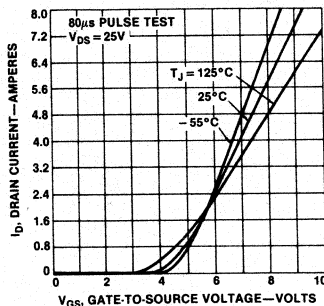


Figure 2—Switching Time Test Circuit

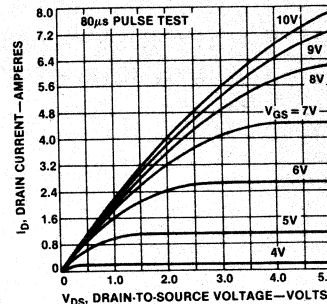
TYPICAL CHARACTERISTICS



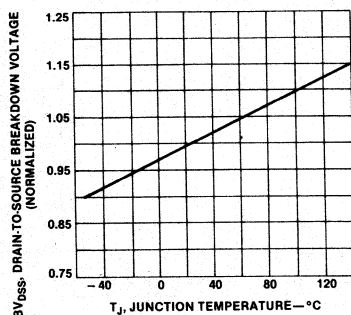
Output Characteristics



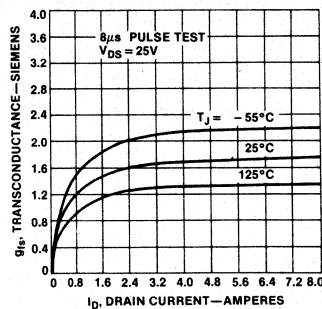
Transfer Characteristics



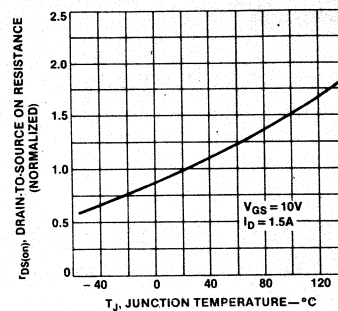
Saturation Characteristics



Breakdown Voltage
vs Temperature



Transconductance
vs Drain Current



Normalized On-Resistance
vs Temperature

N-CHANNEL LOW POWER HEXFET

IRFD1Z3

276-2073

GENERAL DESCRIPTION

This device combines automatic insertion efficiency, a 1 watt heat sink tab with the HEXFET high performance, quality, and reliability. These space saving HEXDIPs are end-stackable in rows of any length on 100 mil centers. The low profile N-Channel HEXDIPs can be used on boards for cages with 0.5" board spacing.

ABSOLUTE MAXIMUM RATINGS

Drain-to-Source Voltage, V_{DS}	60V
On-State Resistance, $R_{DS(ON)}$	3.2Ω
Continuous Drain Current, I_D (25°C Case)	0.4A
Pulsed Drain Current, I_{DM}	1.5A
Maximum Power Dissipation, P_D	1.0W

PIN CONNECTION



SPECIAL TRANSISTORS (FET) (UNIJUNCTION)

MPF102
276-2062

SILICON N-CHANNEL JUNCTION FIELD EFFECT TRANSISTOR

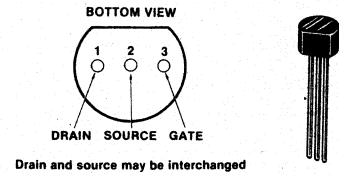
GENERAL DESCRIPTION

The MPF102 is designed for small signal applications. These include VHF amplifiers and mixers.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Drain-Source Voltage	25 V
Drain-Gate Voltage	25 V
Gate-Source Voltage	25 V
Gate Current	10 mA
Total Device Dissipation	310 mW
Operating Junction Temperature	125°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION



MU4891
276-2029

PN UNIJUNCTION TRANSISTOR

GENERAL DESCRIPTION

This is a PN Unijunction Transistor designed for use in pulse, timing, triggering, sensing, and oscillator circuits. The annular process provides low leakage current, fast switching and low peak-point currents as well as outstanding reliability and uniformity.

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

RMS Power Dissipation	300 mW
RMS Emitter Current	50 mA
Peak Pulse Emitter Current	1.0 Amp
Emitter Reverse Voltage	30 Volts
Intrinsic Standoff Ratio (η) ($V_{B2B1} = 10\text{V}$) Note 1	0.82 η
Interbase Resistance (r_{BB}) ($V_{B2B1} = 3.0\text{V}$, $I_E = 0$)	9.1 k ohms
Interbase Resistance Temperature Coefficient ($\propto I_{BB}$) ($V_{B2B1} = 3.0\text{V}$, $I_E = 0$, $T_A = -65^\circ\text{C}$ to 100°C)	0.9%/°C
Emitter Saturation Voltage ($V_{EB1(\text{sat})}$) ($V_{B2B1} = 10\text{V}$, $I_E = 50\text{mA}$) Note 2	4.0 Volts
Modulated Interbase Current ($I_{B2(\text{mod})}$) ($V_{B2B1} = 10\text{V}$, $I_E = 50\text{mA}$)	15 mA
Emitter Reverse Current (I_{EB20}) ($V_{B2E} = 30\text{V}$, $I_{B1} = 0$)	10 nA
Peak Point Emitter Current (I_p) ($V_{B2B1} = 25\text{V}$)	5.0 μA
Valley Point Current I_V ($V_{B2B1} = 20\text{V}$, $R_{B2} = 100\text{ohms}$) Note 2	4.0 mA
Base-one Peak Pulse Voltage (V_{OB1}) (Note 3, Figure 2)	5.0 Volts
Storage Temperature Range	-65 to +150°C

NOTES

1. Intrinsic standoff ratio.

η is defined by equation:

$$\eta = \frac{V_P - V_{(EB1)}}{V_{B2B1}}$$

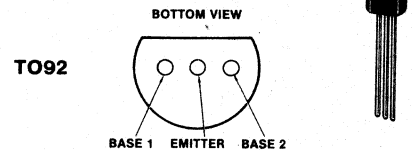
Where V_P = Peak Point Emitter Voltage

V_{B2B1} = Interbase Voltage

$V_{(EB1)}$ = Emitter to Base-One Junction Diode Drop ($\approx 0.5\text{V}$ @ $10\mu\text{A}$)

2. Use pulse techniques: $PW \approx 300\mu\text{s}$ duty cycle $\leq 2\%$ to avoid internal heating due to interbase modulation which may result in erroneous readings.
3. Base-One Peak Pulse Voltage is measured in circuit of Figure 2. This specification is used to ensure minimum pulse amplitude for applications in SCR firing circuits and other types of pulse circuits.

PIN CONNECTION



TYPICAL CHARACTERISTICS

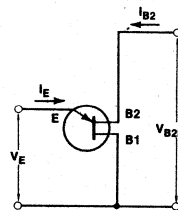


Figure 1—Unijunction Transistor Symbol and Nomenclature

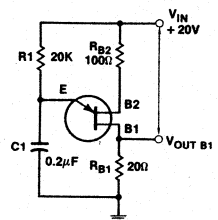


Figure 2—Typical Relaxation Oscillator

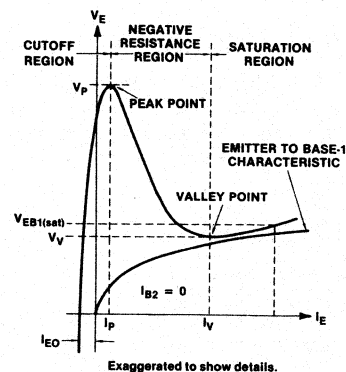


Figure 3—Static Emitter Characteristic Curves

SILICON N-CHANNEL JUNCTION FIELD-EFFECT TRANSISTOR

2N3819
276-2035

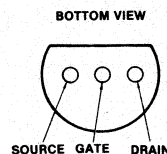
GENERAL DESCRIPTION

The 2N3819 is designed for general purpose small-signal applications. It features low capacitance between drain and gate terminals and an excellent high-frequency figure of merit. It achieves a low noise figure and good power gain with low crossmodulation and intermodulation.

ABSOLUTE MAXIMUM RATING ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Gate-Source Breakdown Voltage BV_{GSS}	— 40 V
Zero Gate Voltage Drain Current I_{DSS}	20 mA
Forward Transconductance g_{fs}	7.0 — mmhos
Reverse Gate Leakage I_{CSS}	— 100 pA
"ON" Resistance r_{DS}	500 ohms
Pinch Off Voltage $V_{GS(OFF)}$	— 6.0 V
Output Conductance g_{os}	10 μ mhos
Feedback Capacitance C_{rss}	0.9 pF
Input Capacitance C_{iss}	4.0 pF
Power Gain G_{ps}	12 dB
Power Dissipation	360 mW

PIN CONNECTION

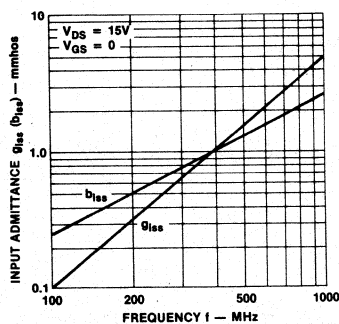


T092

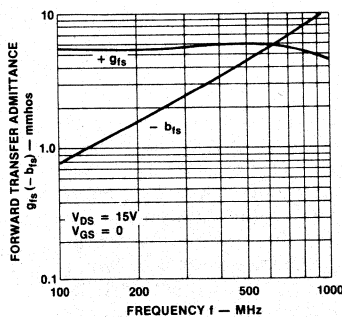


TYPICAL CHARACTERISTICS

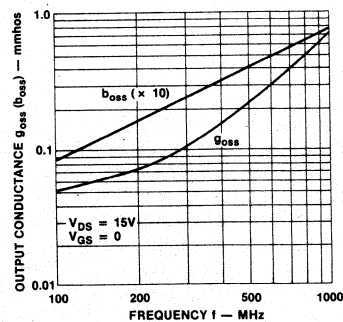
COMMON SOURCE



Input Admittance
vs Frequency

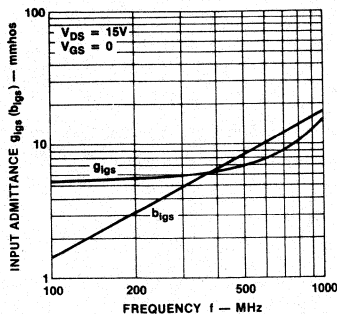


Forward Transfer Admittance
vs Frequency

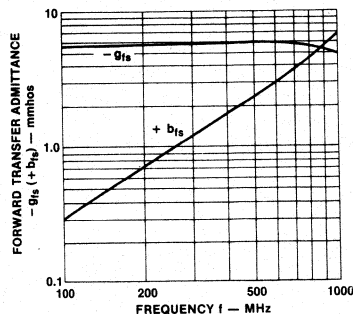


Output Conductance
vs Frequency

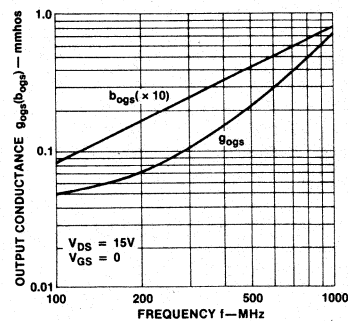
COMMON GATE



Input Admittance
vs Frequency



Forward Transfer Admittance
vs Frequency



Output Conductance
vs Frequency

V8ZA1

276-569

METAL DIODE VARISTOR**GENERAL DESCRIPTION**

The V8ZA1 varistor is best described by a voltage current characteristic shown in Figure 1. The device is symmetrical and its V-I characteristic is quite similar to zener diodes connected back-to-back.

Figure 2 shows the V-I characteristics of the V8ZA1. The 1 mA point defines the specification limit for the minimum and maximum voltage. The maximum point is continuous into the maximum clamping voltage of the device. The thick, heavy line shows the 500-device average. In comparing the 500-device average and the maximum limits, one can see how much better the devices are than the specification indicates.

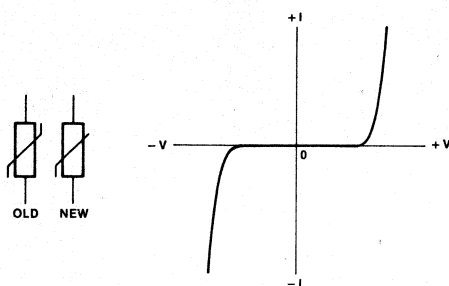
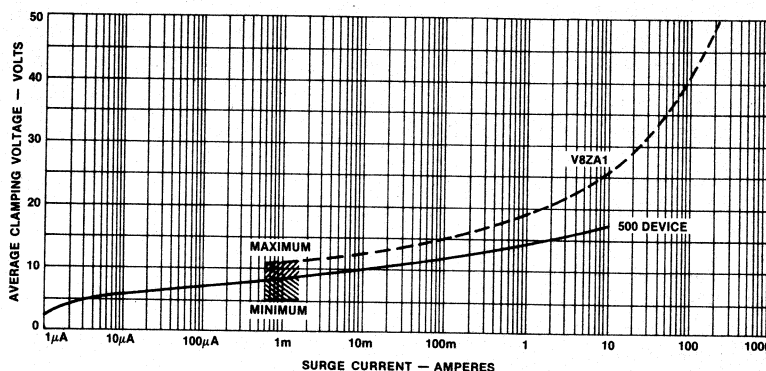


Figure 1—Symbol and V-I Characteristic of Varistors

Figure 2—Maximum and Minimum V_C and 1mA and Maximum V_C Continuous to Maximum I_C . Solid Line shows 500 Device Average of V_C

The devices are constructed similar to a ceramic capacitor. Two electrodes are separated by a ceramic material. As capacitance is proportional to area, and inversely proportional to thickness, low-voltage varistors have relatively high capacitance, which limits their application to the lower frequency domain, as the charging current of the capacitance may alter the signal.

One of the inherent features of the V8ZA1 varistor is its high energy absorption capability. This is based on the fact that each device consists of many small junctions where the energy is converted into heat. Each junction is in immediate contact to the zinc oxide material which has high thermal storage capability and yields a device having low peak temperatures, which makes it extremely reliable with superior overload capability.

The new low-voltage varistors can be used to protect low-voltage circuits of 5V and lower: all integrated circuits, systems containing low-voltage IC's, memories, test equipment, data processing equipment using large, mini, or micro-computers, input-output circuits, sensing circuits, current loops, sensing and interlocking circuits.

The simplest way to use a V8ZA1 varistor is shown in Figure 3(a). The maximum clamping voltage depends on the maximum transient current. If the clamping voltage is too high and the signal currents are low, hybrid arrangements as shown in Figures 3(b) and (d) may still be an effective and low cost alternative. The series impedance Z_S (an inductor or resistor) should be as large as possible, without distorting or attenuating the signal appreciably. The clamping voltage of the suppressor should be low, but high enough to not attenuate or distort the signal.

ABSOLUTE MAXIMUM RATINGS

Transient Energy ($10 \times 100\mu s$)	0.4 Joules
Transient Peak Current ($8 \times 20\mu s$)	100A
Voltage DC	5.5 V
Voltage RMS	4 V
Voltage Clamping ($8 \times 20\mu s$)	22 V
Typical Capacitance ($f = 0.1\text{-}1\text{MHz}$)	4500 pF
Power (Transients)	0.25 W

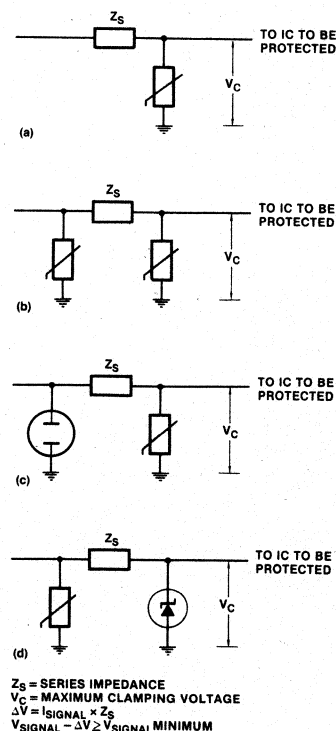
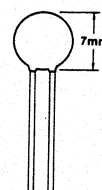
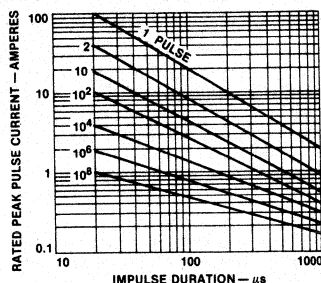
PIN CONNECTION

Figure 3—Possible Configurations of V8ZA1 Varistors in Combination With Other Devices

V8ZA1 276-569

TYPICAL CHARACTERISTICS



Rated Peak Pulse Current
vs Impulse Duration

APPLICATION INFORMATION

Transients exist in every ac or dc system or any wire connecting two pieces of equipment or components. The source can be lightning, high energy switching, high voltage sparkover, or fuse blowing. Every time a magnetic storage device is turned off, the energy stored in the inductance is given as:

$$E = 1/2 L I^2$$

E = Energy (Joules)
L = Inductance (Henries)
I = Current (Amps)

The peak voltage is the result of collapsing the magnetic field.

$$V = -L \times \frac{di}{dt}$$

V = Induced voltage (Volts)
L = Inductance
 $\frac{di}{dt}$ = Change of current

Contact arcing, capacitor discharge, and electrostatic discharge may be found any place there is energy stored in inductances, capacitors, or mechanical devices (motors and generators), and this energy is returned to a circuit. Stray capacitance and inductance may set off oscillation, making the problem even worse.

Whatever the cause of a transient, natural or man-made, the damage potential is real and cannot be causally dismissed if reliable operation of equipment is to be expected.

To properly select a transient suppressor, the frequency of occurrence, open circuit voltage, short circuit current, and source impedance must be known.

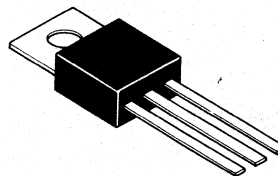
SPECIAL PURPOSE DEVICES (SCR) (TRIAC) (VARISTER)

276-1000 THYRISTORS

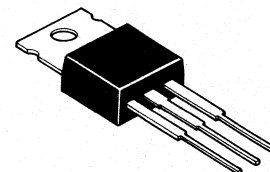
276-1001

276-1020

276-1067



MU27



TO220AB

GENERAL DESCRIPTION

Thyristors and their trigger devices can take numerous forms, but they share these characteristics:

- They are "open circuits," capable of withstanding rated voltage until triggered.
- They become low-impedance current paths when triggered, and remain so, even after the trigger source is removed, until current through that path stops, or is reduced below a minimum "holding" level.

SCRs

Silicon-Controlled Rectifiers (SCRs) are Thyristors intended to switch load currents in one direction only, making them useful for DC and half-wave AC applications as well as full-wave applications, in which bidirectional current is routed in one direction through the SCR via a bridge rectifier.

TRIACs

Triacs are bidirectional Thyristors, in which a single trigger source turns the device on for load current in either direction. Because they do not require a bridge rectifier in order to handle full-wave AC, Triacs are useful in AC power applications that require full source power control capability to be applied to the load.

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1067	6	200	25	1.5	MU27
276-1020	6	400	25	1.5	MU27

Catalog Number	I _{max} A	V _{max} V	I _{GT} (max) mA	V _{GT} (max) V	Case Style
276-1001	6	200	50	2.5	TO220AB
276-1000	6	400	50	2.5	MU27

V130LA10A METAL OXIDE VARISTER

276-570

GENERAL DESCRIPTION

This zinc oxide varistor is a voltage dependent symmetrical resistor which performs similarly to back-to-back zener diodes in circuit protection and offers advantages in performance and economics. When exposed to high energy voltage transients, the varistor impedance changes from a very high standby value to a very low conducting value thus clamping the transient to a protective level. The energy of the incoming high voltage pulse is absorbed by the varistor, protecting voltage sensitive components against damage.

FEATURES

- Excellent clamp ratio
- Fast response time (<35 nsec.)
- Low standby power drain
- No follow-on current

ABSOLUTE MAXIMUM RATINGS

Transient Energy (10 × 1000 μs) (Note 1) 35 joules
Transient Peak Current (8 × 20 μs) (Note 2) 4500 A
Peak Voltage @ 1 ma DC 232 V
Peak Voltage @ 1 ma AC 254 V
Clamping Voltage V_C @ Test Current (8 × 20 μs) 340 V
Typical Capacitance (f = 0.1 to 1 MHz) 1000 pF
Note 1: 10 μs rise and 1000 μs to 50% decay of peak value.
Note 2: 8 μs rise and 20 μs to 50% decay of peak value.

PIN CONNECTION



OPTOELECTRONIC INDEX

FUNCTION	CATALOG NO.	PAGE NO.
DET/EMITTER	276-142	22
DRIVER	276-134	18
DISPLAY	276-053	21
	276-081	19, 20
EMITTER	276-143	22
LED INDICATORS	276-018	16
	276-019	16
	276-021	16
	276-022	16
	276-026	16
	276-033	16
	276-035	15
	276-037	16
	276-041	16
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	276-070	16
	276-073	16
PHOTOCELL	276-116	21
PHOTO TRANSISTOR	276-130	17
	276-145	17
SOLAR CELL	276-124	23
SOLAR PANEL	277-1250	23

TRI-COLOR LIGHT EMITTING DIODE

XC-5491
 276-035

GENERAL DESCRIPTION

The XC-5491 tri-state LED provides red, green, and yellow emission in the same package. This LED is a popular .200 diameter, two-leaded package containing a red and green LED chip in inverse parallel. By reversing the polarity of the applied current, the LED will emit red or green light while an AC voltage results in yellow light. The chips used in the XC-5491 are brightness matched so that the light output is uniform. This eliminates the necessity for the special drive circuits previously required with tri-state lamps.

These lamps provide the designer with the capability of efficiently displaying three functions with one indicator. This reduces the number of front panel indicators and simplifies design.

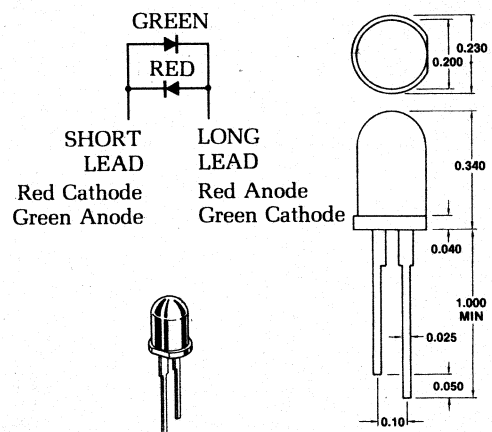
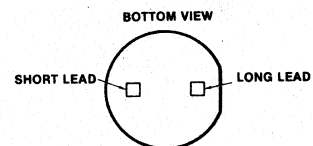
FEATURES

- 3 States—red, green, and yellow
- Equal brightness in all three colors
- Popular T 1 $\frac{1}{4}$ size package
- Wire wrappable leads

ABSOLUTE MAXIMUM RATINGS

Forward Current	25 mA
Peak Reverse Voltage	5V
Power Dissipation	100 mW
Operating Temperature Range	-55 to +85°C
Lead Solder Temperature	260°C

PIN CONNECTION



OPTOELECTRONIC (LED)

LED INDICATORS

Catalog Number	Direct Commercial Equivalent	Peak Wave Length nM	Color	Forward Voltage V_F (V)	Reverse Voltage V_R (V)	Max DC Forward Current I_F (MA)	Max Pwr Diss P_D (MW)	Fig. No.
276-018	PR5534S	700	RED	2.5	4	100	75	5
276-019	BG5534S	555	GREEN	2.5	4	100	125	5
276-021	SLP-236B	565	YELLOW	2.8	3	30	70	6
276-022	SLP-236B	565	GREEN	2.8	3	30	70	6
276-026	—	650	RED	—	3	50	100	3
276-033	TLR-107	700	RED	2.1	4	35	100	2
276-037	SLP-235B	565	GREEN	2.8	3	30	70	5
276-041	—	700	RED	1.75	3	70	140	4
276-068	—	700	RED	1.9	—	30	—	7
276-069	—	560	GREEN	2.1	—	30	—	7
276-070	SEL-1120R	700	RED	2.5	3	30	—	1
276-073	—	—	YELLOW	2.1	—	30	—	7

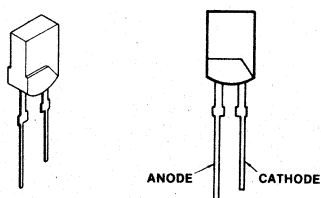


FIGURE 1
Miniature LED with diffused lens. Its features include high brightness—ideal for bar graph display—can be arranged horizontally or vertically.

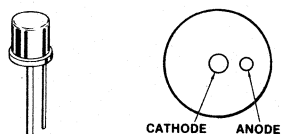


FIGURE 2
Miniature LED with diffused lens. This LED is compatible with most TTL and transistor circuits. It features a Fresnel lens design.

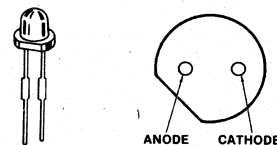


FIGURE 3
This LED features a frosted diffused lens in a plastic encapsulant. When the device is on, it appears as a large, soft light source, making it ideally suited for front panel applications.

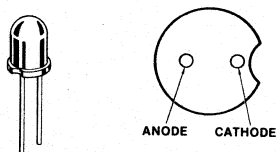


FIGURE 4
This device is a jumbo LED with a diffused lens. It can be used in applications such as pilot and indicator lamps.

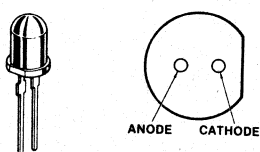


FIGURE 5
Subminiature LED with diffused lens. This device has solid state reliability and is compatible with most TTL and transistor circuits.

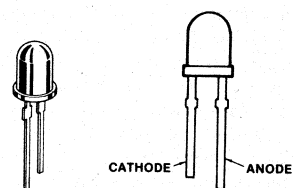


FIGURE 6
This is a frame type solid state LED with a diffused lens.

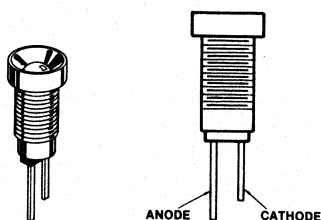


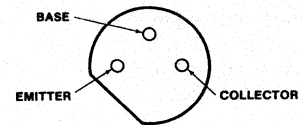
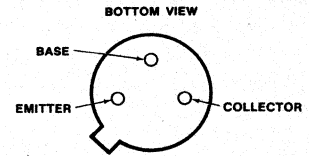
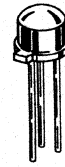
FIGURE 7
This is a subminiature LED indicator with polished chrome reflective holder.

SILICON PHOTOTRANSISTOR**276-130****GENERAL DESCRIPTION**

The 3 terminal phototransistor has exceptionally stable characteristics and high illumination sensitivity. The electrically connected base lead increases its applicability to various circuit designs. It features low leakage, low power requirements, TTL/DTL compatibility, a wide sensitivity range and fast response.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation	
Total Dissipation at 25°C Case Temperature.....	200 mW
at 25°C Ambient Temperature.....	100 mW
Maximum Voltages	
V_{CBO} Collector to Base Voltage	50 Volts
V_{CEO} Collector to Emitter Sustaining Voltage.....	30 Volts
Maximum Current	
I_C Collector Current	25 mA
Maximum Temperature/Humidity	
Operating Junction Temperature	-55 to +85°C
Storage Temperature.....	-55 to +100°C
Relative Humidity at Temperature.....	98% to 65°C

PIN CONNECTIONS

The base lead is for testing only, it is not used in normal applications.

INFRARED PHOTOTRANSISTOR**TIL414**
276-145**GENERAL DESCRIPTION**

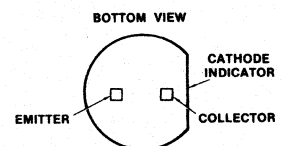
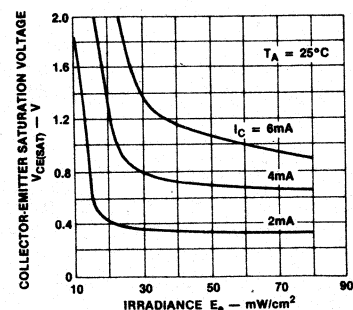
The TIL414 is an NPN silicon phototransistor in A T-1 3/4 style case. It provides high speed and high photosensitivity, suitable for IR switching applications.

ABSOLUTE MAXIMUM RATINGS

Collector-Emitter Voltage	50 V
Emitter-Collector Voltage	7 V
Power Dissipation.....	50 mW
Operating Temperature.....	-40° to +100°C

ELECTRICAL CHARACTERISTICS (Typical)

Dark Current ($V_{CE} = 30 V$).....	25 nA
Light Current ($V_{CE} = 5 V \bullet E_e = 20 mW/cm^2$).....	7 mA
Collector-Emitter Saturation	0.4 V
Rise Time.....	8 μs
Fall Time	6 μs

PIN CONNECTION**TYPICAL CHARACTERISTICS**

Collector-Emitter Saturation Voltage
vs Irradiance

MOC3010
276-134

OPTOCOUPLER TRIAC DRIVER



GENERAL DESCRIPTION

This device consists of a gallium-arsenide infrared emitting diode, optically coupled to a silicon bilateral switch and is designed for applications requiring isolated triac triggering, low-current isolated ac switching, high electrical isolation (to 7500 V peak), high detector standoff voltage, small size, and low cost.

INFRARED EMITTING DIODE MAXIMUM RATINGS

Reverse Voltage	3.0 volts
Forward Current—Continuous	50 mA
Total Power Dissipation @ $T_A = 25^\circ\text{C}$	100 mW

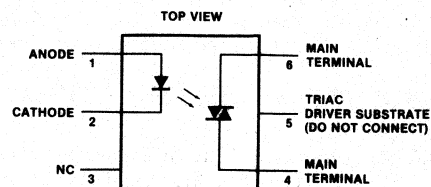
OUTPUT DRIVER MAXIMUM RATINGS

Off-State Output Terminal Voltage	250 Volts
On-State RMS Current $T_A = 25^\circ\text{C}$	100 mA
(Full Cycle, 50 to 60 Hz $T_A = 70^\circ\text{C}$)	50 mA
Peak Nonrepetitive Surge Current	1.2 A
(PW = 10ms, DC = 10%)	
Total Power Dissipation @ $T_A = 25^\circ\text{C}$	300 mW
Derate above 25°C	4.0 mW/ $^\circ\text{C}$

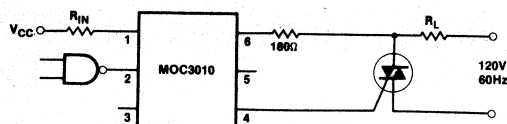
TOTAL DEVICE MAXIMUM RATINGS

Isolation Surge Voltage (1s)	7500 Vac
(Peak ac Voltage, 60 Hz, 5 Second Duration)	
Total Power Dissipation	330 mW
Junction Temperature Range	-40 to $+100^\circ\text{C}$
Ambient Operating Temperature Range	-40 to $+70^\circ\text{C}$
Storage Temperature Range	-40 to $+150^\circ\text{C}$
Soldering Temperature (10s)	260°C

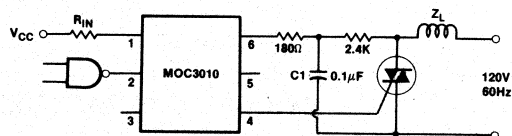
PIN CONNECTION



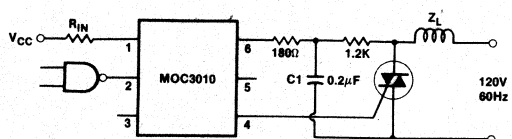
APPLICATIONS



Resistive Load

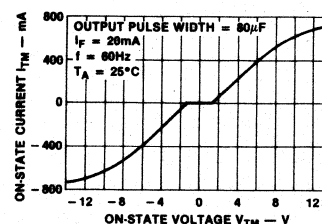


Inductive Load with Sensitive Gate Triac
($I_{GT} \leq 15\text{mA}$)

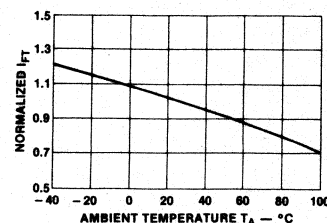


Inductive Load with Non-Sensitive Gate Triac
($15\text{mA} < I_{GT} < 50\text{mA}$)

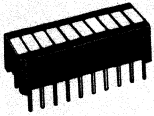
TYPICAL CHARACTERISTICS



On-State Current vs
On-State Voltage



Trigger Current
vs Temperature



HIGH EFFICIENCY RED BAR GRAPH DISPLAY

MV57164
276-081

GENERAL DESCRIPTION

The MV57164 is a 10 segment bar graph display with separate anodes and cathodes for each light segment. The packages are end stackable.

FEATURES

- Large segments, closely spaced
- End stackable
- Fast switching, excellent for multiplexing
- Low power consumption
- Directly compatible with IC's
- Wide viewing angle
- Standard .3" DIP leading spacing

ABSOLUTE MAXIMUM RATINGS

(25°C Free Air Temperature Unless Otherwise Specified)

Power dissipation.....	750mW
Continuous forward current	
Total.....	300 mA
Per segment.....	30 mA
Reverse voltage.....	6.0 V
Per segment.....	6.0 V
Storage and operating temperature.....	-40 to +85°C
Solder time 5 sec.	260°C

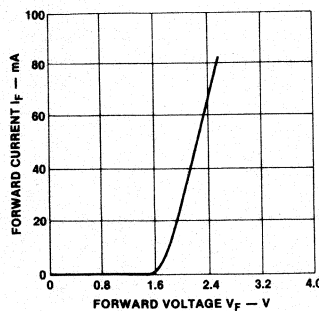
TYPICAL THERMAL CHARACTERISTICS

Thermal resistance junction to free air Φ_{JA}	160° C/W
Wavelength temperature coefficient (case temp).....	1.0 A/°C
Forward voltage temperature coefficient.....	-2.0 mV/°C

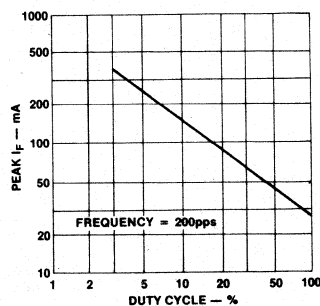
ELECTRO-OPTICAL CHARACTERISTICS

Forward Voltage.....	2.5 V
Peak emission wavelength.....	630nm
Spectral line half width.....	40nm
Dynamic resistance.....	
Segment.....	26 ohms
Capacitance.....	35 pF
Switching Time.....	400 ns
Reverse Voltage.....	6.0 V

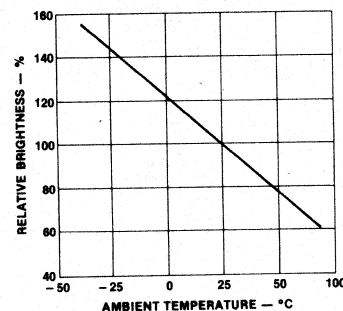
TYPICAL CHARACTERISTICS



Forward Current vs
Forward Voltage

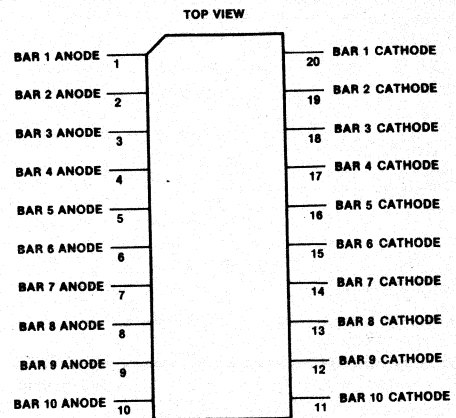


Luminous Intensity vs
Forward Current

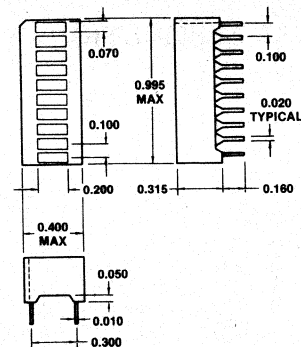


Luminous Intensity vs
Ambient Temperature

PIN CONNECTION



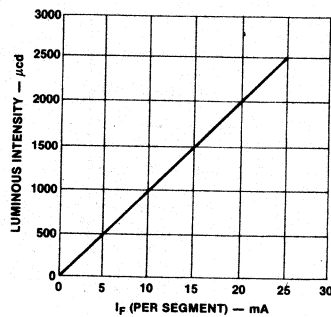
DIMENSIONAL DIAGRAM



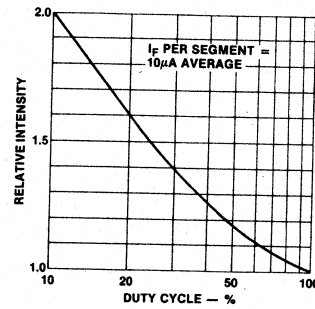
OPTOELECTRONIC (DISPLAY)

MV57164 276-081

TYPICAL CHARACTERISTICS (Cont'd)



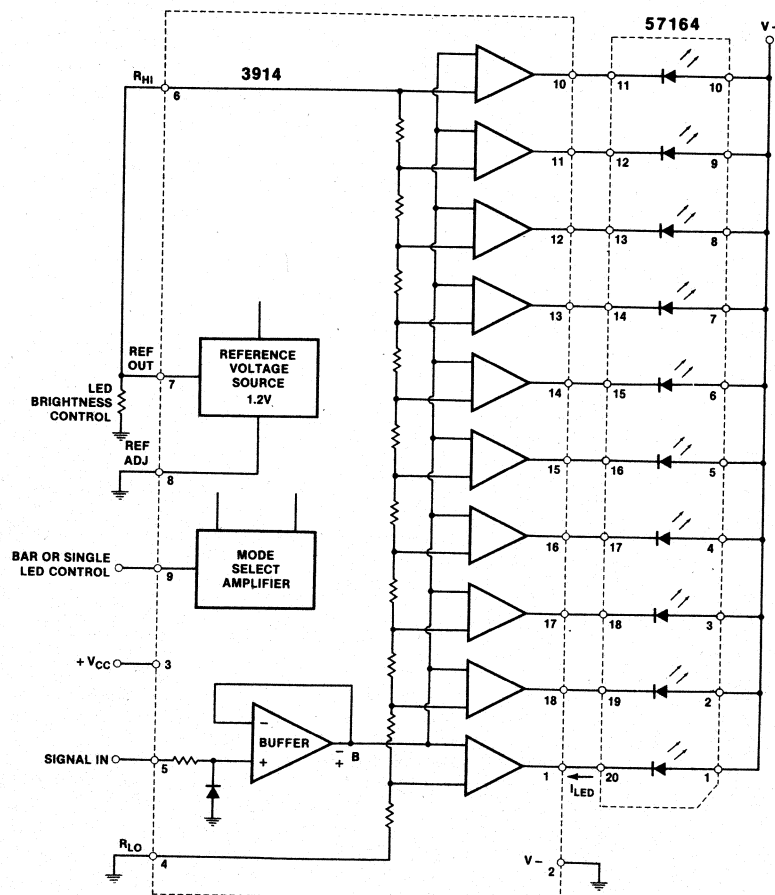
Maximum Peak Current
vs Duty Cycle

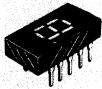


Luminous Intensity
vs Duty Cycle

TYPICAL APPLICATION

Typical Drive Circuit





0.3" SOLID STATE SEVEN SEGMENT DISPLAY

276-053

GENERAL DESCRIPTION

The 276-053 is a common anode LED numeric display. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.

FEATURES

- Fits 14 pin DIP socket
- Excellent character appearance—continuous uniform segments; wide viewing angle; high contrast
- IC compatible—1.6 V per segment
- Standard 0.3" DIP lead configuration; PC board or standard socket mountable
- Both left and right decimal points

APPLICATIONS

- Electronic calculators
- TVs
- Radios
- Frequency counters
- Digital clocks

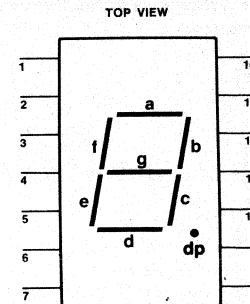
RADIANT CHARACTERISTICS (IF=20mA) $T_A=25^\circ\text{C}$

Luminous Intensity..... 250 mcd
Wavelength (Peak) 655 nm

ABSOLUTE MAXIMUM RATINGS

Power Dissipation $T_A=25^\circ\text{C}$ 400 mW
Average Forward Current/Segment or Decimal Pt. $T_A=25^\circ\text{C}$ 25 mA
Peak Forward Current/Segment or Decimal Pt. $T_A=12^\circ\text{C}$
(Pulse Duration 500 μs) 150 mA
Reverse Voltage per Segment or Decimal Pt. 6 V
Operating Temperature Range -20 to $+85^\circ\text{C}$
Storage Temperature Range..... -20 to $+85^\circ\text{C}$
Max Solder Temperature 1/16" Below Seating Plane ($t \leq 5$ sec.) 230°C

PIN CONNECTION



COMMON ANODE	
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	NO CONNECTION
10	CATHODE c
11	CATHODE g
12	NO PIN
13	CATHODE b
14	ANODE

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

CADMIUM SULPHIDE PHOTOCELL

276-116

GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms, max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

SPECIFICATIONS

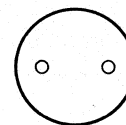
• Shape..... Round
• Sensitive Area07 sq. in.
• Weight 1.56 gms.
• Resistance at 1 Ftc (2870°K)..... 1.7k Ohms . 40%
• Typical Resistance 100 Ftc (2870°K)..... 100 Ohms
• Resistance Dark Minimum (1 Minute)..... 0.5 Megohms

ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc) 170 V peak
Max. Power Dissipation at 25°C 2 watts
Power Derating..... Linearly to 0 @ 75°C
Operating Temp. Range..... -40 to $+75^\circ\text{C}$

CONNECTIONS

BOTTOM VIEW



OPTOELECTRONIC (DETECTOR) (EMITTER)

276-142

INFRARED EMITTER AND DETECTOR

GENERAL DESCRIPTION

The 276-142 is a pair consisting of an infrared photodetector and an infrared-emitting diode. The diode is capable of emitting radiant energy in the infrared region of the spectrum.

FEATURES

- Spectrally and mechanically matched
- High power efficiency . . . typically 5 percent at 25°C

ABSOLUTE MAXIMUM RATINGS

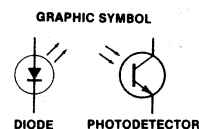
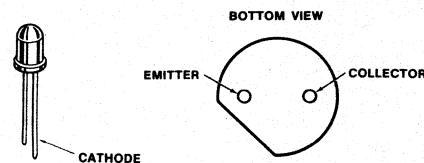
Photodetector

Collector-Emitter Voltage	20V
Collector Current	25mA
Continuous Device Dissipation at (or below) 25°C Free-Air Temperature	50mW
Operating Free-Air Temperature Range	-40 to +80°C
Storage Temperature Range	-40 to +85°C
Lead Temperature 1/16 Inch from Case for 5 Seconds	240°C

Infrared-Emitting Diode

Reverse Voltage	2V
Continuous Forward Current	40mA
Radiant Power Output	0.5mW
Wavelength at Peak Emission	915nm

PIN CONNECTION

**276-143**

SUPER HIGH OUTPUT INFRARED EMITTER

GENERAL DESCRIPTION

This device is a gallium aluminum arsenide super high output infrared emitting diode. It emits non-coherent, infrared energy at 880 nm and provides significantly improved coupling efficiency to Si photo transistors and photodiodes.

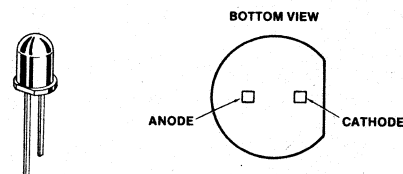
FEATURES

- GaAlAs heterostructure material. Emits at 880 nm
- Super high conversion efficiency/maximum power output
- 2× total radiant power output of 940 nm product
- Increased coupling efficiency to silicon opto devices
- Emits 3 times the energy of conventional IR emitter

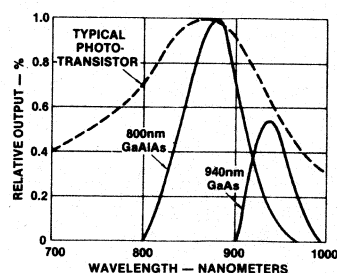
ABSOLUTE MAXIMUM RATING

Average Power Dissipation	75 mW
Average Fwd. Current	45 mA
Reverse Voltage	3.0 V
Peak Pulse Current 100μsec Duration @ 10 pps	0.30 A
Forward Voltage	1.75 V
Temp Coef of Fwd Voltage	-1.8 mV/DC
Dynamic Resistance	1.5 ohms
Angle between Half Power Intensity Points	40°
Peak Wavelength	880 nm
Line Halfwidth	80 nm
Reverse Current, Max. at 25°C	10μA
Response Time (10% to 90%)	1.5 μs
Operating, Storage, or Process Temp Range	-40 to +85°C
Solder Temp. 5 Sec 1/16 inch from case	260°C

PIN CONNECTION



SPECTRAL MATCHING COMPARISON



Relative Output
vs Wavelength

2.5×5cm SILICON SOLAR CELL

276-124

GENERAL DESCRIPTION

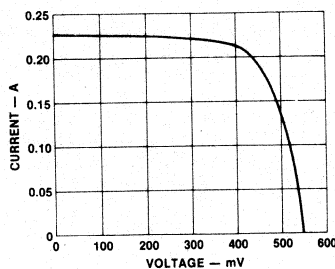
A solar cell is a silicon semiconductor device which converts light energy directly to electricity. A typical 2.5×5cm cell will produce 0.42 volt and up to .18 amp of usable current. The power generated is affected by the load resistance (circuit powered by cell) strength of sunlight and temperature.

Be extremely careful when soldering leads. Use only a very fine wire (#26 or thinner) and use a small soldering iron (less than 50 watts). Solar cells may be connected in series to produce more voltage and in parallel for more current.

ABSOLUTE MAXIMUM RATINGS

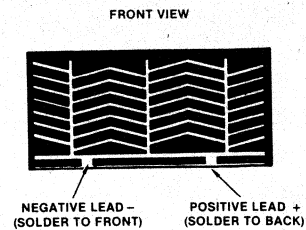
Voltage (Open Circuit):.....0.55V
 Current (short circuit):.....0.2A
 (Test conditions: Full sunlight at noon on a clear day at 25°C (76°F))

TYPICAL CHARACTERISTICS



Current vs Voltage

CONNECTIONS



5 3/4 × 4 in SILICON SOLAR PANEL

277-1250

GENERAL DESCRIPTION

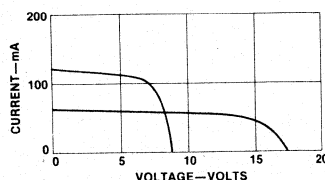
This solar panel is a silicon semiconductor device which converts light energy directly into electricity. The 5 3/4" × 4" panel will produce a minimum of 40 mA with the switch in the 12 V position or 80 mA in the 6 V position. The power generated is affected by load resistance (circuit powered by panel), strength of sunlight and temperature.

ABSOLUTE MAXIMUM RATINGS

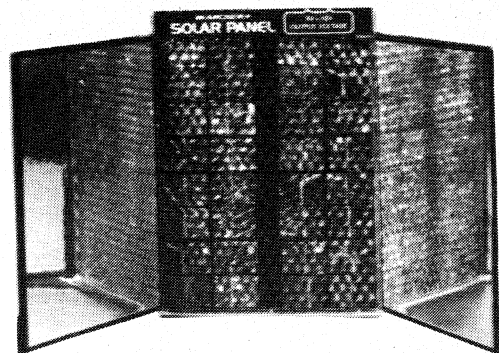
6V Mode
 No Load Voltage (Open Circuit)8.6 V
 No Load Current (Short Circuit).....122 mA
 Voltage (200 Ω Load)8.0 V
 Current (200 Ω Load)42 mA

12V Mode
 No Load Voltage (Open Circuit)17.5 V
 No Load Current (Short Circuit).....60 mA
 Voltage (200 Ω Load)10.5 V
 Current (200 Ω Load)52 mA

TYPICAL CHARACTERISTICS



Current vs Voltage



VHF MODULATOR

UM1285-8

277-221

VHF MODULATOR

GENERAL DESCRIPTION

The UM1285-8 is a high performance intercarrier vestigial sideband modulator which is primarily intended for use in color TV games, home computer, graphics, teletext and view data adapters. The modulator has a very linear transfer characteristic which ensures good chroma levels and freedom from sync compression and associated frame and line jitter problems, good sub-carrier inter modulation performance minimizes the on screen bar pattern due to chroma and sound subcarrier beats.

FEATURES

- Compact & low profile
- Rugged & stable
- Good modulation linearity
- Low chroma/sound beat product (55 dB typ)
- Pretuned vision carriers Ch 3, Ch 4
- Pretuned sound subcarrier 4.5 MHz
- Pretuned vestigial sideband filter
- Built-in voltage regulator
- Negative transfer characteristic
- For color application
- 75 ohm output from a standard phono socket

ABSOLUTE MAXIMUM RATINGS

Voltage between Pin 1, 3, 4, and Case Ground - 3.0 to + 15 V
Voltage between Pin 3 and V_{CC} - 3.0 to + 8.0 V
(Refer to table for high voltage application.)
Operating Temperature Range 0 to + 45°C
Storage Temperature Range - 20 to + 70°C

ELECTRICAL CHARACTERISTICS

V_{CC} + 5.8 to 6.2 V
(Refer to table for higher supply voltage application.)
RF Output Load 75Ω
Channel 3 Video Carrier 61.25 MHz
Channel 4 Video Carrier 67.65 MHz
Sound Carrier 4.500 MHz
Video Carrier output ($V_{mod} = 2.2$ V) 1.5 mVrms
Video Carrier output ($V_{mod} = 2.8$ V) 18 dB WRT $V_{O(HI)}$
Sound Carrier output 22 dB WRT $V_{O(HI)}$
Spurious/Harmonic 30 dB WRT $V_{O(HI)}$
Voltage Standing Wave Ratio (CH 3 and CH 4) 1.7
 ΔF for Change in Temperature ± 10 kHz/°C
 ΔF for Change in Temperature ± 750 Hz/°C
 ΔF for 1 Volt Change in V_{CC} ± 30 kHz/V
 ΔF for 1 Volt Change in V_{CC} ± 5 kHz/V
RF Output Impedance 75Ω
- 3DB Bandwidth (RF)
CH 3 14 MHz
CH 4 5.0 MHz
Supply Current 30 mA
Frequency modulating 8 kHz/Volt
Sensitivity Chroma/Sound Beat Level 55 dB WRT $V_{O(HI)}$

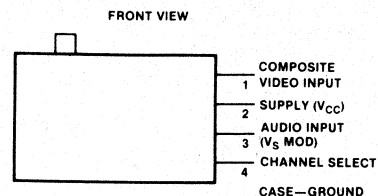
TABLE

Supply Voltage V_{CC}	Volt	6.0	7.5	9.0	12.0	15.0
Series Resistor R_S	Ohm	0	47	100	180	270

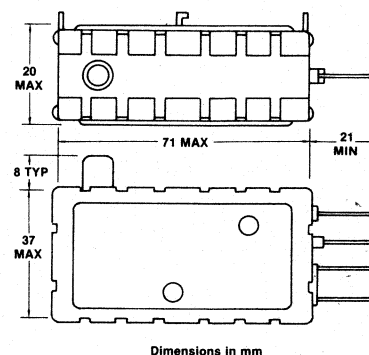
Series resistor with respect to supply voltage



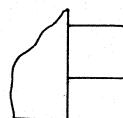
PIN CONNECTION



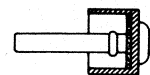
DIMENSIONAL DIAGRAM



RF OUTPUT SOCKET



Phono Socket



Typical Phono Plug

TYPICAL CHARACTERISTICS

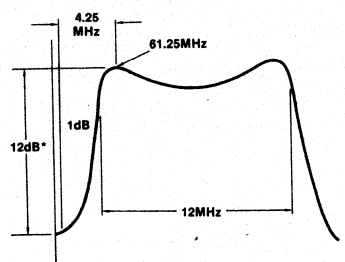
The UM1285-8 is designed to work over a wide range of supply voltage from 6 to 15 V (V_{CC}). A built-in 5.0 V (V_{DD}) voltage regulator is provided to achieve excellent stability against voltage change. A series resistor is recommended in putting between power source and modulator supply input for purpose of current limiting.

Modulation occurs when a positive going voltage is applied to the modulation input (video) pin. The transfer characteristic is negative, that means a positive input causes the RF output to decrease. Peak RF output is specified when the video input is at 2.2 V.

RF channel frequency of Ch 3 or Ch 4 can be selected by connecting channel select pin to ground level (0V) to have Ch 3, or open connection to have Ch 4.

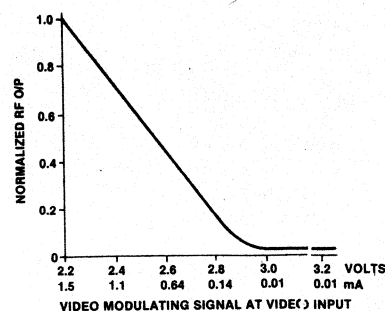
FCC APPROVABLE

The UM1285-8 is FCC approvable due to its very low radiation, stabilized carrier oscillators and vestigial side bank filter which ensures all side band components outside FCC limits are greater than 30 dB down.



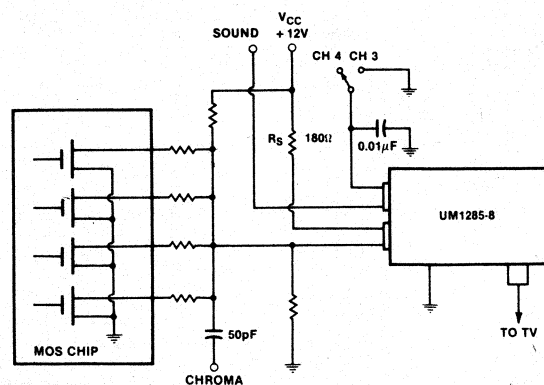
*Note: Subcarriers are > 18dB down wrt carrier at input to bandpass filter giving maximum out of band level of < -30dB wrt carrier.

Typical Bandpass Filter Response

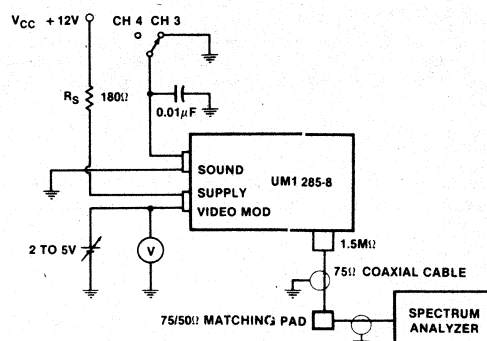


Typical Transfer Characteristic

TYPICAL APPLICATIONS



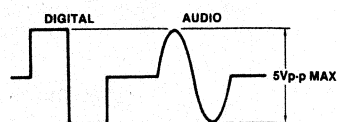
Typical Application



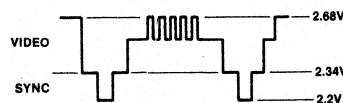
Note: 1. In case of testing with 50Ω I/P spectrum analyzer, matching pad 75/50Ω (attenuation 10dB) should be employed.
2. Standard RF coaxial cable should be 1.5 meters long and 75Ω characteristic impedance.

Test Circuit

TYPICAL INPUT WAVEFORMS



Sound I/P Setup

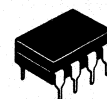


Modulated Input Voltage Setup

TCM1512A

276-11302

RING DETECTOR/DRIVER



GENERAL DESCRIPTION

The TCM1512A integrated circuit is designed for use as an alerting device in the line powered telephone. The IC (with a minimum of external components) is powered and activated by the telephone line's AC "ring" voltage to generate a signal suitable for driving piezo-electric "sound disc" transducers. In a typical telephone application this AC ring voltage can vary from 40 to 150 V_{RMS} over a frequency range of 14 to 68 Hz. The output signal is a square wave alternating between two frequencies in a ratio 1.14:1; and with the average of these two frequencies set at 1250 Hz, a "warble" rate or shift rate of approximately 10 Hz.

During standby (prior to activation) the ringer presents an impedance of 100K or greater to prevent any interference with parallel "offhook" telephones transmitting DTMF or voice frequencies. The IC is designed to handle lightning strikes on the line of 1500 V, 200 μ sec duration. In addition, dial pulses from parallel phones are ignored so a false ringing of the bell (tapping) won't occur.

FEATURES

- On-chip full-wave rectifier
- High standby impedance
- Built-in lightning protection circuitry
- Built-in anti-"tapping" circuitry
- Built-in regulators
- Built-in static protection
- 0.8 through 2 kHz output frequency range
- Low external component count
- Push-pull drive of piezo transducers

ABSOLUTE MAXIMUM RATINGS

Continuous Input Voltage (Pin 1 ref. to Pin 8) (See note).....	70 V
Continuous V _{CC} Supply (Pin 6 ref. to Pin 7) (See note).....	63 V
Package Power Capability @25°C	1 W
Surge SCR On-State Current (On-Time \leq 200 μ sec)	0.9 A
Continuous Input Current (with SCR Triggered) (See note)	0.5 A _{RMS}
Operating Ambient Temperature	-20 to +70°C
Storage Ambient Temperature	-40 to +150°C

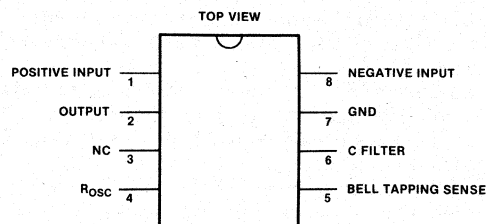
NOTE: Normally the IC is fed with an AC signal through a 2.2K resistor to guarantee compliance with these maximum ratings. Care should be taken when connecting a DC power supply to the IC to prevent the internal SCR from being fired which could result in damage to the IC.

TEST CIRCUIT

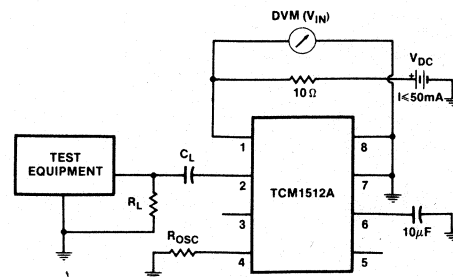
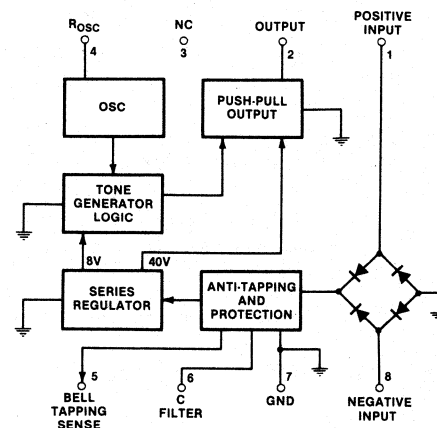
An oscilloscope can be used as the output "test equipment" for all the electrical measurements except output frequency, where a frequency counter should be used.

1. V_{IN} is the voltage measured across Pins 1 & 8 of the integrated circuit.
2. Threshold voltage is the input voltage V_{IN} measured the instant before the output (Pin 2) starts oscillating.
3. Care must be taken in attempting to measure SCR characteristics of the integrated circuit so as not to exceed absolute maximum. It is suggested that a curve tracer be used across Pins 1 & 8 with capacitor connection Pin 6 shorted to Pin 7 to simulate a standby transient effect of a discharged 10 μ F filter capacitor.
4. DC output currents are measured in the steady state. Peak output current would normally be greater than specified.
5. The output frequency is measured across R_L using a frequency counter. The frequency counter measures and displays the average frequency of the output tones F_{AVG} (where F_{AVG} = the average of the high frequency of the low frequency which is integrated by the counter over a long period of time).
6. Oscillator drift is the deviation in output frequency due to change in temperature T_A or input voltage V_{IN} compared to the output frequency at T_A = 25°C and V_{IN} = 30 V. R_{OSC} is varied until the average output frequency F_{AVG} = 1250 Hz.
7. For most tests, Pin 5 is left open. Where specified, Pin 5 is activated by connecting a 2.2K resistor across Pins 5 & 6.

PIN CONNECTION



BLOCK DIAGRAM



Test Circuit

TCM1512A 276-1302

TYPICAL CHARACTERISTICS

This first graph shows the typical average output frequency vs. oscillator tuning resistor (R_{OSC}). The curve shows the general trend that the IC's follow; however, the values will differ from IC to IC. The curve should not be used as an accurate design tool since IC's could vary more than $\pm 10\%$ from the values given in this graph.

The second graph shows the minimum operating voltage at tip and ring (20 Hz) vs. input capacitance C_1 as a function of load resistance. The dashed curve marked "threshold" shows the voltage necessary at tip and ring to produce a voltage between pin 6 and 7 large enough to trip an internal switch and start the output oscillating. However, depending on the load and input capacitance, the minimum operating voltage could be larger than the threshold voltage. The threshold voltage can turn the IC on for an instant until the load drains the 10 μF capacitor across pins 6 and 7 and then the IC would turn off again. Depending on R_{LOAD} and C_1 , the minimum operating voltage could be the true threshold voltage.

TYPICAL APPLICATIONS

Input Circuitry

The TCM1512A has built-in circuitry to avoid "tapping," a false triggering due to transients. The IC is kept "OFF" (in standby) until the incoming signal has charged the capacitor on pins 6 and 7 to a threshold of approximately 8 volts through an internal zener and 8K resistor.

Connecting pin 5 and pin 6 bypasses the internal zener and thus reduces the threshold voltage, (V_{IN}). The connection, if made, should be with a resistor of not less than 2K.

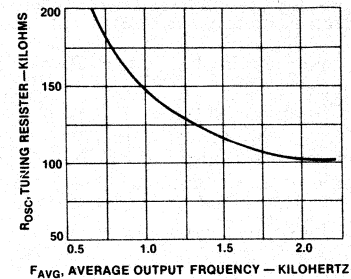
The ring detector/driver IC has built-in transient protection circuitry which (with appropriate external circuitry) is designed to handle lightning strikes (1500 V/200 μsec) on a phone line. The IC is made up of a high current SCR triggered by a circuit that senses current (typically 70 mA) through the 70 V on-chip zener. The external 2.2K resistor is a necessary component to dissipate the energy when the SCR is turned on. Therefore, with an external resistor of 2.2K, a voltage transient of 224 V (peak) from tip to ring, will fire the SCR. ($2200 \Omega \times 0.07 A Pk$) + 70 V = 224 V (Pk). Note: Caution is required when a DC power supply is connected to the input pins (1 and 8). If the IC is subjected to a transient, it could possibly fire the SCR and would not turn off until the current supplied to it falls below the holding current I_H . The DC power supply provides constant current and would result in IC destruction.

The ring detector/driver IC has a standby impedance of greater than 100K. The IC achieves such a high impedance due to an on-chip series zener which presents a high impedance until its turn-on voltage (6.8V) is reached. However, when the IC reaches its threshold voltage (8V) across pins 6 and 7, an internal switch is closed which bypasses the 6.8 V zener. This allows for more efficient power transfer to the load when the IC is in the operating mode. In the operating mode the IC has an AC impedance determined largely from the output load.

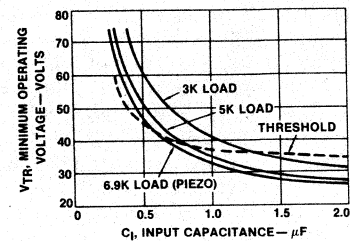
Output Tone Operation

The external resistor R_{OSC} sets the frequency of the IC's oscillator. The oscillator frequency F_{OSC} is then divided by a divide-by-14 counter for the high frequency F_H and a divide-by-16 counter for the low frequency F_L . The output frequencies are then divided by a divide-by-128 counter to establish the "warble rate." The warble rate is the alternation between the high frequency F_H and the low frequency F_L . Therefore, by changing the oscillator resistor R_{OSC} , the pitch of the output tones (F_H/F_L) and the warble rate between the tones can be set to the desired value. Oscillator drift is kept to a minimum (-1% to $\pm 0.5\%$) during varying input voltages and operating temperatures due to an on-chip 10 V regulator and circuit design techniques. Tolerance of the output frequencies (F_H/F_L) from IC to IC are dependent upon IC tolerances and R_{OSC} tolerance and is normally in excess of $\pm 10\%$.

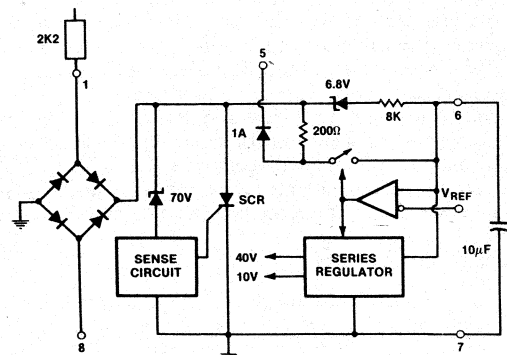
Oscillator Stability: It is recommended that on PCB's, R_{OSC} be located close to pin 4 (short lead) and be surrounded by ground plane. Also, pin 3 (N/C) should be grounded. These measures will prevent capacitive coupling from the output to the master oscillator, which may cause oscillator instability.



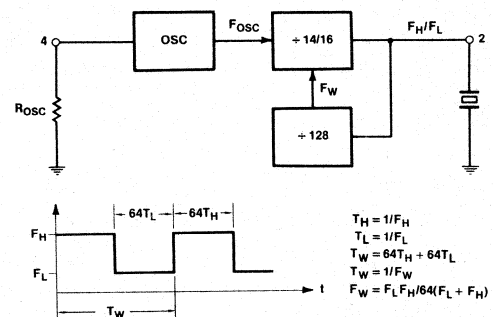
Tuning Resistor vs
Average Output Frequency



Minimum Operating Voltage
vs Input Capacitance



Input Circuitry



Output Tone Operation

TCM1512A 276-1302

TYPICAL APPLICATIONS (Cont'd)

Telephone Application

The primary application for the TCM1512A ring detector/driver IC is in the telephone set.

This TCM1512A ring detector/driver IC is designed for use in telephone sets to detect ring voltages and to drive a piezo-ceramic disc transducer, thus replacing the electromechanical bell. It can produce sound with efficiency comparable to that obtainable from a type 500 set. The typical output signal produces a pleasant but attention drawing sound with an average frequency of 1250 Hz. It is modulated between 1172 Hz and 1339 Hz at a 9.8 Hz warble rate. These output frequencies and the warble rate are adjustable by varying the value of the external R_{OSC} .

The network formed by the 1.8 μF DC blocking capacitor, the 2.2K current limiting resistor, and the diode full wave bridge supply the IC power from the phone lines. The 1.8 μF capacitor is "standard" with U.K. mechanical telephones and normally part of the hybrid network. The value of the capacitor (C1) affects turn-on time and the minimum input voltage. The incoming rectified AC signal is filtered by an external 10 μF /100 V capacitor connected between pin 6 and 7. The value of this filter capacitor affects the turn-on time of the IC. More significantly, it is used with internal IC circuitry to suppress "tapping." Tapping is a false ringing of the bell due to pulses on the phone line from rotary dials or pulse dialing IC's.

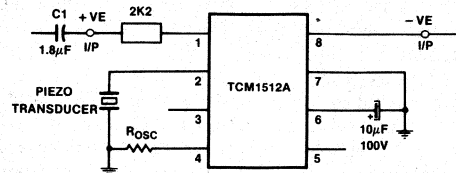
The TCM1512A incorporates a high standby input impedance to assure that “on-hook” telephones will not interfere with parallel (extension) “off-hook” telephones transmitting DTMF or voice frequency signals. Industry standards specify $< 100K$ for voice frequencies (700 Hz - 1.6 kHz) for input voltages up to 3 V_{RMS}. The impedance for operating voltages (during ring) is specified to be $< 8K$. The TCM1512A meets both of these requirements. The DC blocking capacitor (C1) and the filter capacitor could modify the value of the ringer input impedances. The more closely the load and IC impedance match the line impedance, the greater the power transfer to the load. A potentiometer in series with the piezo load could be useful as a volume control.

The minimum operating voltage at tip and ring can be altered by changing the value of two external components, C_1 and R_{LOAD} . C_1 is the DC blocking capacitor at tip and ring and R_{LOAD} is the equivalent resistance of the load which may be a piezo transducer or the primary winding of a transformer. In the electromechanical telephone, C_1 is fixed at $1.8 \mu F$. However, if one is designing an all electronic telephone C_1 and R_{LOAD} could be selected to achieve the desired minimum operating voltage.

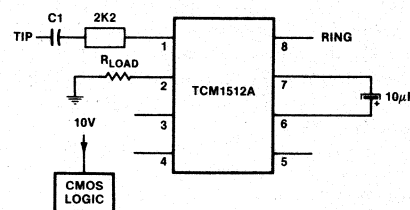
Alarm Circuit

This device contains all the active components necessary to build a security alarm system. A few external capacitors and resistors are required, along with a 16 V or 24 V transformer. The external 20 μ F capacitor stores voltage during alternate half-cycles that is added to the next half-cycle's voltage to generate 30 V (Pk) across pins 6 and 7. The voltage doubler allows the IC to turn on with lower supply voltages than are normally required.

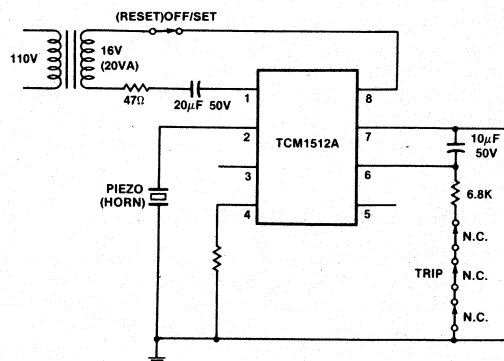
The IC is in standby (Off) when the "trip" switches are in their normally closed position. The 6.8K resistor doesn't allow the 10 μ F capacitor (pins 6 and 7) to charge up to its 11.5 V threshold voltage. The instant the trip switch is opened, the capacitor charges and the alarm sounds. Even if the trip switch is closed, the alarm will continue to sound. This is due to a latch circuit internal to the IC. The alarm is disarmed by opening the reset/set switch. when using a "piezo horn" for a transducer, sound pressure levels of 105 dB or greater can be achieved with as little as 10 mA supply current.



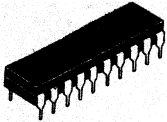
Telephone Application of Ring Detector/Driver



Input/Output Circuitry



Alarm Circuit



UNIVERSAL MONOLITHIC DUAL SWITCHED CAPACITOR FILTER

MF10
276-2329

GENERAL DESCRIPTION

The MF10 consists of 2 independent and extremely easy to use, general purpose CMOS active filter building blocks. Each block, together with an external clock and 3 to 4 resistors, can produce various 2nd order functions. Each building block has 3 output pins. One of the outputs can be configured to perform either an allpass, highpass or a notch function; the remaining 2 output pins perform lowpass and bandpass functions. The center frequency of the lowpass and bandpass 2nd order functions can be either directly dependent on the clock frequency, or they can depend on both clock frequency and external resistor ratios. The center frequency of the notch and allpass functions is directly dependent on the clock frequency, while the highpass center frequency depends on both resistor ratio and clock. Up to 4th order functions can be performed by cascading the two 2nd order building blocks of the MF10; higher than 4th order functions can be obtained by cascading MF10 packages. Any of the classical filter configurations (such as Butterworth, Bessel, Cauer and Chebyshev) can be formed.

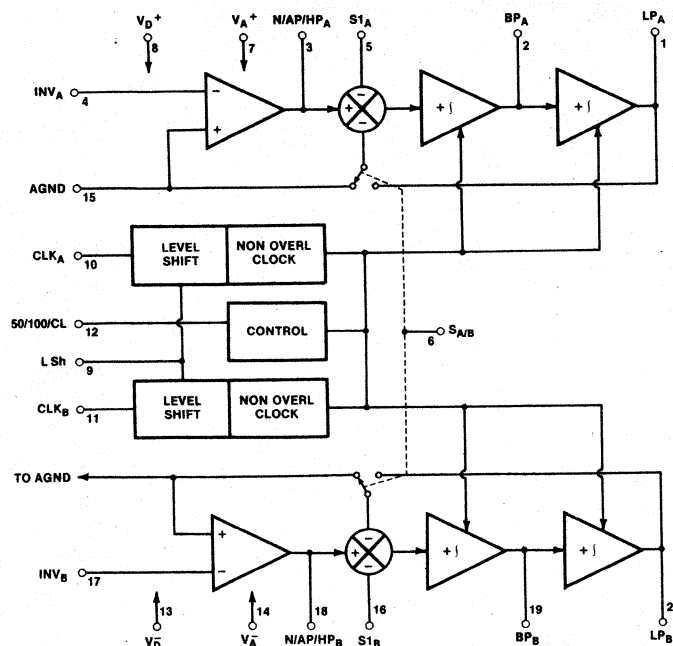
FEATURES

- Low cost
- 20-pin 0.3" wide package
- Easy to use
- Clock to center frequency ratio accuracy=0.6%
- Filter cutoff frequency stability directly dependent on external clock quality
- Low sensitivity to external component variation
- Separate highpass (or notch or allpass), bandpass, lowpass outputs
- $f_c \times Q$ range up to 200 kHz
- Operation up to 30 kHz

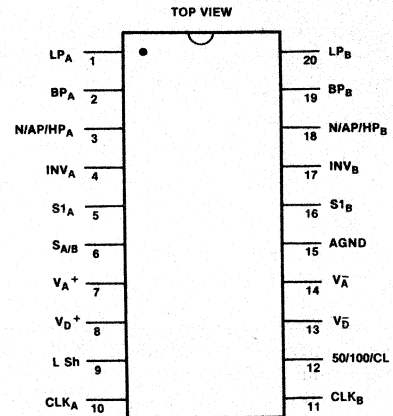
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	7V
Power Dissipation500mW
Operating Temperature	0 to 70°C
Storage Temperature	150°C
Lead Temperature (Soldering, 10 sec.)	300°C

BLOCK DIAGRAM



PIN CONNECTION



MF10 276-2329

TYPICAL APPLICATIONS

Mode 1A: Non-Inverting Bandpass, Inverting Bandpass, Lowpass

This is a minimum external component configuration (only 2 resistors) useful for low Q lowpass and bandpass applications. The non-inverting bandpass output is necessary for minimum phase filter designs.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

$$Q = \frac{R_3}{R_2}$$

$$H_{OLP} = -1$$

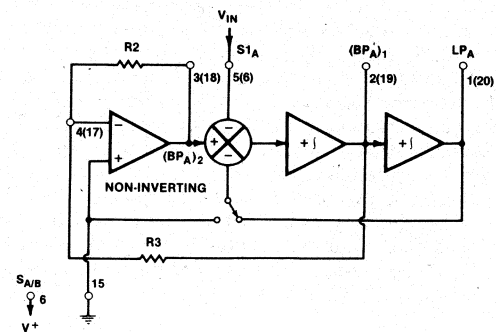
$$H_{OBP_1} = -\frac{R_3}{R_2}$$

$$H_{OBP_2} = 1 \text{ (non-inverting)}$$

Circuit Dynamics

$$H_{OBP_1} = Q \text{ (this is the reason for the low Q recommendation)}$$

$$H_{OLP(\text{peak})} = Q \times H_{OLP}$$



Mode 1A

Mode 1: Notch, Bandpass and Lowpass

With the addition of just one more external resistor, the output dynamics are improved over Mode 1A to allow bandpass designs with a much higher Q. The notch output features equal gain above and below the notch frequency.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

$$f_{\text{notch}} = f_o$$

$$Q = \frac{R_3}{R_2}$$

$$H_{OLP} = -\frac{R_2}{R_1}$$

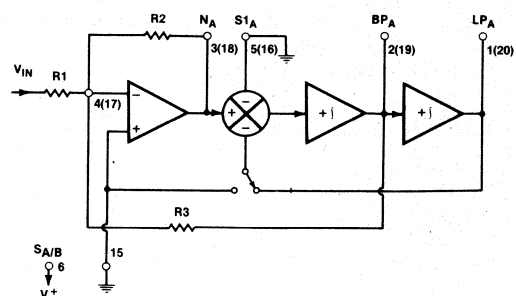
$$H_{OBP} = -\frac{R_3}{R_1}$$

$$H_{ON} = -\frac{R_2}{R_1} \text{ as } f \rightarrow 0 \text{ and as } f \rightarrow \frac{f_{CLK}}{2}$$

Circuit Dynamics

$$H_{OBP} = H_{OLP} \times Q = H_{ON} \times Q$$

$$H_{OLP(\text{peak})} = Q \times H_{OLP} \text{ (if the DC gain of the LP output is too high, a high Q value could cause clipping at the lowpass output resulting in gain non-linearity and distortion at the bandpass output).}$$



Mode 1

Mode 2: Notch (with $f_n \leq f_o$), Bandpass and Lowpass

This configuration allows tuning of the clock to center frequency ratio to values greater than 100 to 1 or 50 to 1. The notch output is useful for designing elliptic highpass filters because the frequency of the required complex zeros (f_{notch}) is less than the frequency of the complex poles (f_o).

Design Equations

$$f_o = \frac{f_{CLK}}{100} \sqrt{1 + \frac{R_2}{R_4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{1 + \frac{R_2}{R_4}}$$

$$f_n = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

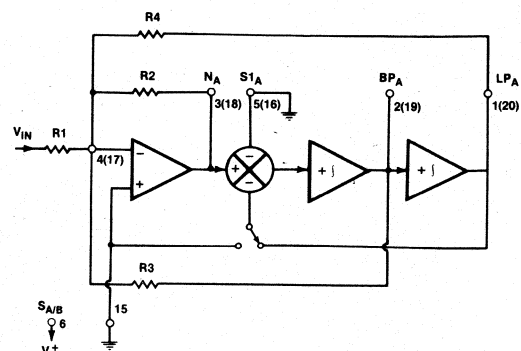
$$Q = \sqrt{1 + \frac{R_2}{R_4}} \times \frac{R_3}{R_2}$$

$$H_{OLP} = \frac{-\frac{R_2}{R_1}}{1 + \frac{R_2}{R_4}}$$

$$H_{OBP} = -\frac{R_3}{R_1}$$

$$H_{ON_1} \text{ (as } f \rightarrow 0) = \frac{-\frac{R_2}{R_1}}{1 + \frac{R_2}{R_4}}$$

$$H_{ON_2} \left(\text{as } f \rightarrow \frac{f_{CLK}}{2} \right) = -\frac{R_2}{R_1}$$



Mode 2

Circuit Dynamics

$$H_{OBP} = Q \sqrt{H_{OLP} \times H_{ON_2}} = Q \sqrt{H_{ON_1} \times H_{ON_2}}$$

Mode 3: Highpass, Bandpass and Lowpass

Design Equations

$$H_{OBP} = -\frac{R_3}{R_1}$$

$$Q = \sqrt{\frac{R_2}{R_4}} \times \frac{R_3}{R_2}$$

$$H_{OLP} = -\frac{R_4}{R_1}$$

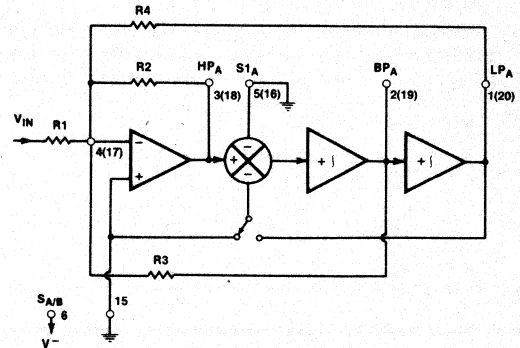
$$H_{OHP} = -\frac{R_2}{R_1}$$

$$H_{OHP} = H_{OLP} \left(\frac{R_2}{R_4} \right)$$

$$H_{OBP} = Q \sqrt{H_{OHP} \times H_{OLP}}$$

$$H_{OLP(\text{peak})} = Q \times H_{OLP}$$

$$H_{\text{OHP (peak)}} = Q \times H_{\text{OHP}}$$



Mode 3

Design Equations

$$H_{OBP} = -\frac{R_3}{R_1}$$

$$Q = \sqrt{\frac{R_2}{R_4}} \times \frac{R_3}{R_2}$$

$$H_{ON} \text{ (at } f = f_o) = \left| Q \left(\frac{R_g}{R_l} H_{OLP} - \frac{R_g}{R_h} H_{OHP} \right) \right|$$

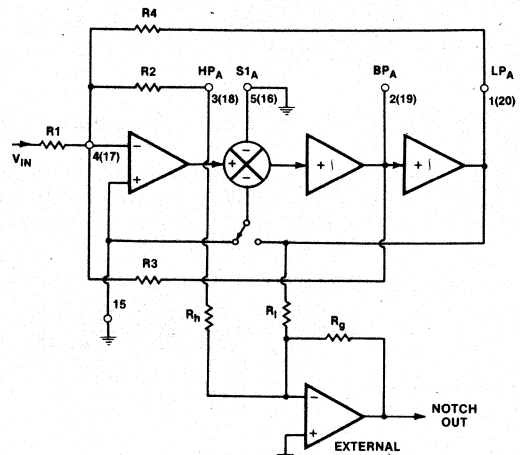
$$f_{\text{notch}} = \frac{f_{\text{CLK}}}{100} \sqrt{\frac{R_h}{R_l}} \text{ or } \frac{f_{\text{CLK}}}{50} \sqrt{\frac{R_h}{R_l}}$$

$$H_{ON_1} (\text{as } f \rightarrow 0) = \frac{R_g}{R_1} \times H_{OLP}$$

$$H_{OHP} = -\frac{R_2}{R_1}$$

$$H_{ON_h} \left(\text{as } f \rightarrow \frac{f_{CLK}}{2} \right) = \frac{R_g}{R_b} \times H_{OHP}$$

$$H_{OLP} = -\frac{R_4}{R_1}$$



Mode 3A

Design Equations

$$f_o = \frac{f_{CLK}}{100} \text{ or } \frac{f_{CLK}}{50}$$

$$H_{OAP} = -\frac{R_2}{R_1} = -1$$

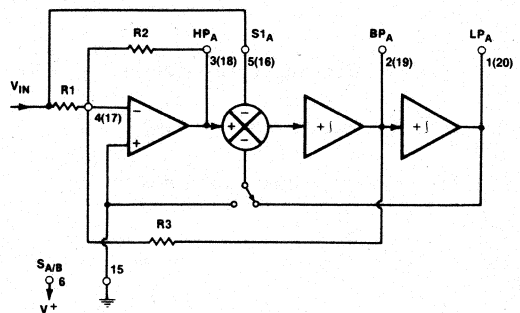
$$f_z \text{ (frequency of complex zero pair)} = f_o \quad H_{OLP} = - \left(\frac{R_2}{R_1} + 1 \right) = -2$$

$$H_{OLP} = - \left(\frac{R_2}{R_1} + 1 \right) = -2$$

$$Q = \frac{R_3}{R_2}$$

$$H_{O_{BP}} = - \left(1 + \frac{R_2}{R_1} \right) \frac{R_3}{R_2} = - 2 \frac{R_3}{R_2}$$

$$Q_z \text{ (Q of complex zero pair)} = \frac{R_3}{R_1}$$

$$H_{OBP} = H_{OLP} \times Q = (H_{OAP} + 1)Q$$


Mode 4

MF10 276-2329

TYPICAL APPLICATIONS (Cont'd)

Mode 5: Complex Zeros (C.z), Bandpass and Lowpass

This mode features an improved allpass design over that of Mode 4, in that it maintains a more constant amplitude with frequency at the complex zeros (C.z) output. The frequencies of the pole pair and zero pair are resistor tunable.

Design Equations

$$f_o = \frac{f_{CLK}}{100} \sqrt{1 + \frac{R2}{R4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{1 + \frac{R2}{R4}}$$

$$f_z = \frac{f_{CLK}}{100} \sqrt{1 - \frac{R1}{R4}} \text{ or } \frac{f_{CLK}}{50} \sqrt{1 - \frac{R1}{R4}}$$

$$Q = \frac{R3}{R2} \sqrt{1 + \frac{R2}{R4}}$$

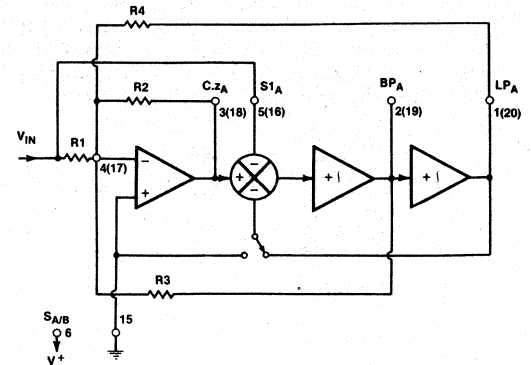
$$Q_z = \frac{R3}{R1} \sqrt{1 - \frac{R1}{R4}}$$

$$H_{O(C.z)} \text{ as } f \rightarrow 0 = \frac{R2(R4-R1)}{R1(R2+R4)}$$

$$H_{O(C.z)} \text{ as } f \rightarrow \frac{f_{CLK}}{2} = \frac{R2}{R1}$$

$$H_{OBP} = \frac{R3}{R2} \left(1 + \frac{R2}{R1} \right)$$

$$H_{OLP} = \frac{R4}{R1} \left(\frac{R2+R1}{R2+R4} \right)$$



Mode 5

Mode 6A: Single Pole, Highpass and Lowpass

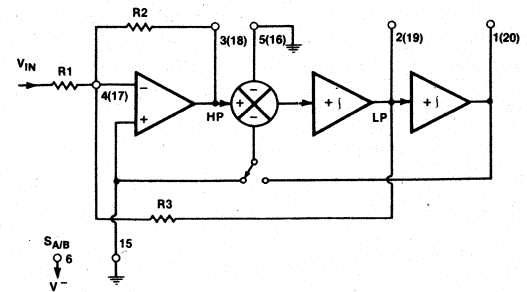
By using only one of the internal integrators, this mode is useful for creating odd-ordered cascaded filter responses by providing a real pole that is clock tunable to track the resonant frequency of other 2nd order MF10 sections. The corner frequency is resistor tunable.

Design Equations

$$f_c \text{ (cut-off frequency)} = \frac{f_{CLK}}{100} \left(\frac{R2}{R3} \right) \text{ or } \frac{f_{CLK}}{50} \left(\frac{R2}{R3} \right)$$

$$H_{OLP} = - \frac{R3}{R1}$$

$$H_{OHP} = - \frac{R2}{R1}$$



Mode 6A

Mode 6B: Single Pole Lowpass (Inverting and Non-Inverting)

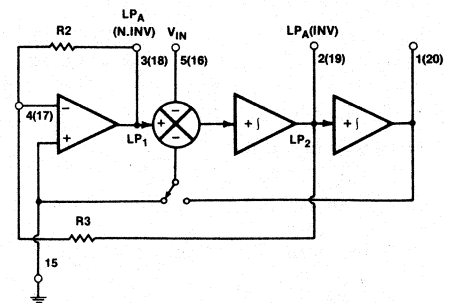
This mode utilizes only one of the integrators for a single pole lowpass, and the input op amp as an inverting amplifier, to provide non-inverting lowpass output. Again, this mode is useful for designing odd-ordered lowpass filters.

Design Equations

$$f_c \text{ (cut-off frequency)} = \frac{f_{CLK}}{100} \left(\frac{R2}{R3} \right) \text{ or } \frac{f_{CLK}}{50} \left(\frac{R2}{R3} \right)$$

$$H_{OLP} \text{ (inverting output)} = - \frac{R3}{R2}$$

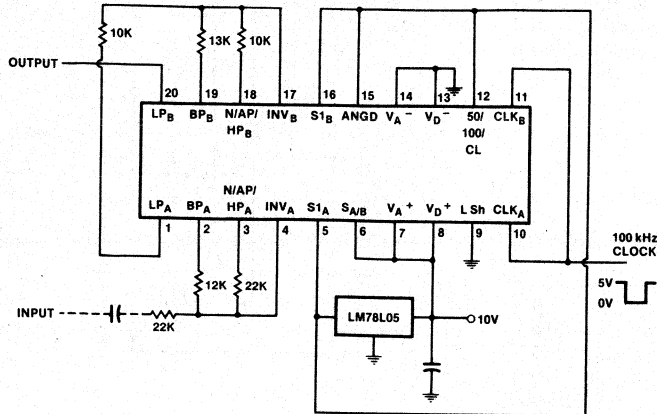
$$H_{OLP} \text{ (non-inverting output)} = + 1$$



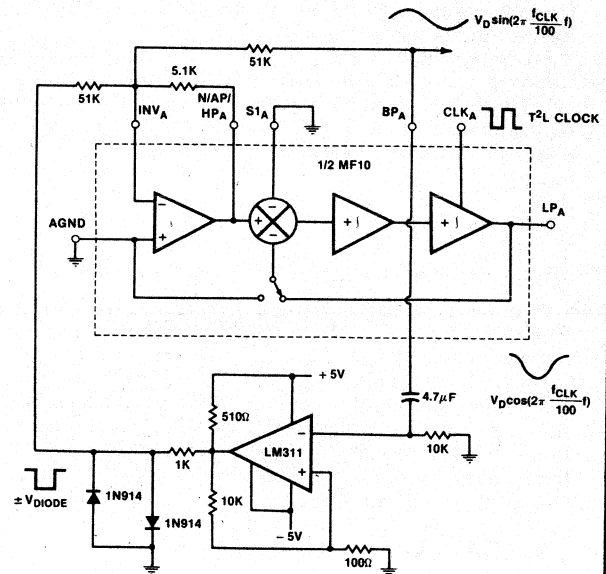
Mode 6B

MF10 276-2329

TYPICAL APPLICATIONS (Cont'd)



Only 6 resistors required for this 4th order, 1 kHz Butterworth lowpass filter.
This example also illustrates single-supply biasing.

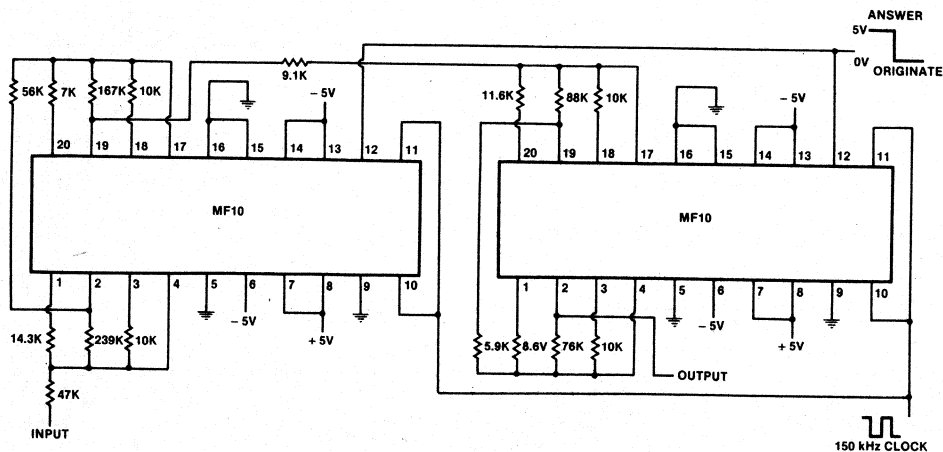


Generating Quadrature Sinewaves from a T²L Clock

300 Baud, Full-Duplex Modem Filter

Finally, as a graphic illustration of the simplicity of filter implementation using the MF10, this is a complete 300 baud, full-duplex modem filter. The filter is an 8th order, 1 dB ripple Chebyshev bandpass which functions as both an 1170 Hz originate filter and a 2125 Hz answer filter. Control of answer or originate operation is set by the logic level at the 50/100/CL input so that only one clock frequency is required. The overall filter gain is 22 dB.

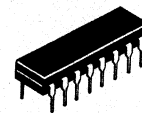
Construction of this filter on a printed circuit board would obviously be more compact than an RC active filter approach and much more cost effective for the level of precision required. An even more attractive implementation from a space savings point of view would be a hybrid circuit approach. A film resistor array connecting to two MF10 die could produce the entire filter in one package requiring only 7 external connections for input, output, supplies, etc.



Complete Full-Duplex 300 Baud Modem Filter

74LS367
 276-1835

3-STATE HEX BUFFER



GENERAL DESCRIPTION

This device is a high speed hex buffer with 3-state outputs. It is organized as a single 6-bit or 2-bit/4-bit, with inverting or non-inverting data (D) paths. The outputs are designed to drive 15 TTL unit loads or 60 low power schottky loads when the enable (\bar{E}) is LOW.

When the output enable input (\bar{E}) is HIGH, the outputs are forced to a high impedance "off" state. If the outputs of the 3-state devices are tied together, all but one device must be in the high impedance state to avoid high currents that would exceed the maximum ratings. Designers should ensure that output enable signals to 3-state devices whose outputs are tied together are designed so there is no overlap.

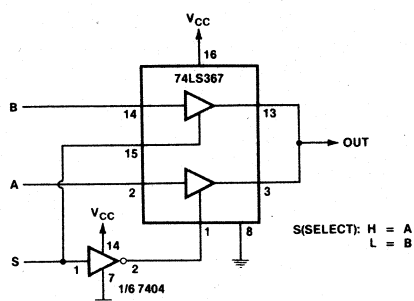
FEATURES

- Will drive 15 TTL unit loads
- Will drive 60 low power schottky loads

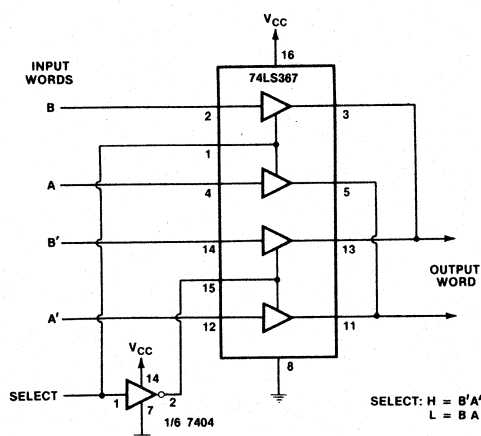
ABSOLUTE MAXIMUM RATING

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage	-1.5 V
Input High Current ($V_{CC} = \text{Max.}, V_{IN} = 2.7 \text{ V}$)	20 μA
Input Low Current ($V_{CC} = \text{Max.}, V_{IN} = 0.4 \text{ V}$)	-0.4 mA
Operating Temperature	0 to +70°C

TYPICAL APPLICATIONS

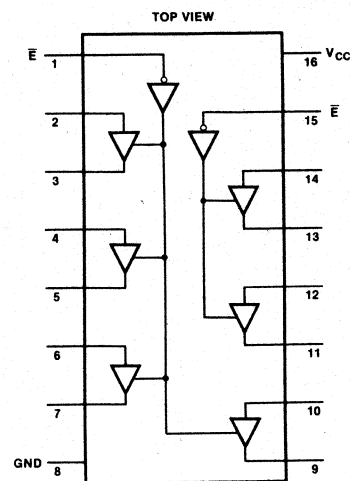


1-of-2 Data Selector



1-of-2 Data Selector

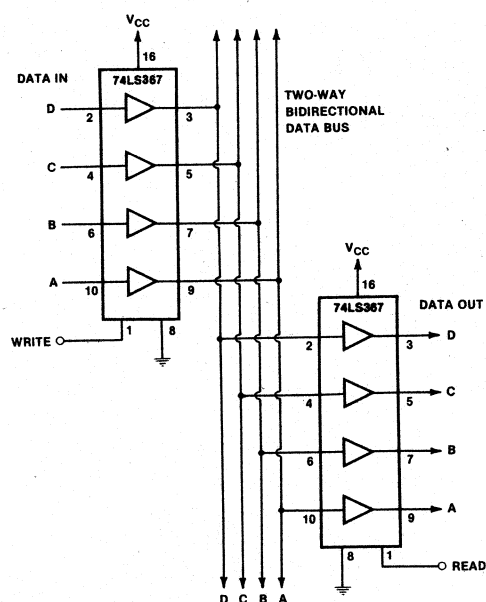
PIN CONNECTION



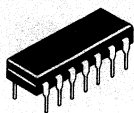
TRUTH TABLE

INPUTS		OUTPUT
\bar{E}	D	
L	L	L
L	H	H
H	X	H (Z)

H = High Level
 L = Low Level
 X = Immaterial
 Z = High Impedance



Bidirectional Data Bus



QUAD TWO-INPUT NAND GATE

7400
276-1801

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. It provides the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

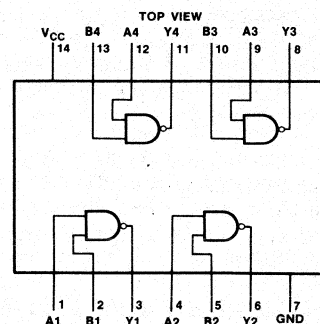
Two possible ways at handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC} 5.25 V
 Input High Voltage 2.0 V
 Input Low Voltage 0.8 V
 Input Clamp Diode Voltage ($V_{CC} = 5.0$ V, $I_{IN} = -12$ mA) -1.5 V
 Input High Current ($V_{CC} = \text{Max.}$, $V_{IN} = 2.4$ V) 40 μ A
 Input Low Current ($V_{CC} = \text{Max.}$, $V_{IN} = 0.4$ V) -1.6 mA
 Operating Temperature 0 to +70°C

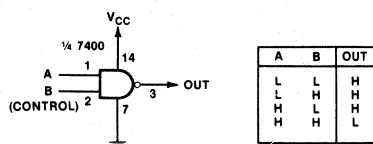
PIN CONNECTION



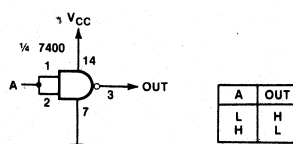
TRUTH TABLE

$$Y = \overline{AB}$$

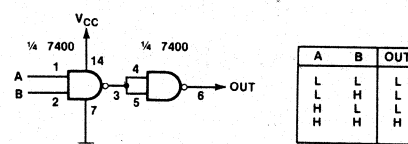
TYPICAL APPLICATIONS



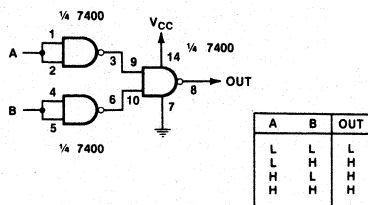
Control Gate



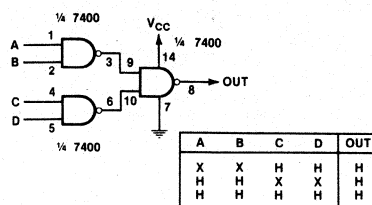
Inverter



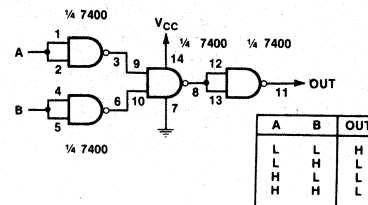
AND Gate



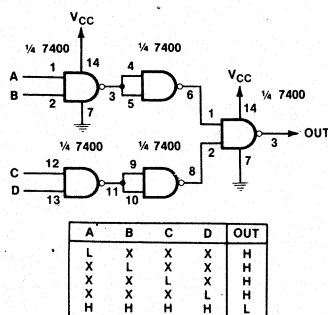
OR Gate



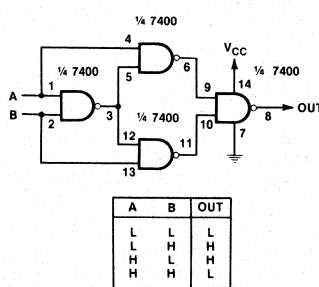
AND-OR Gate



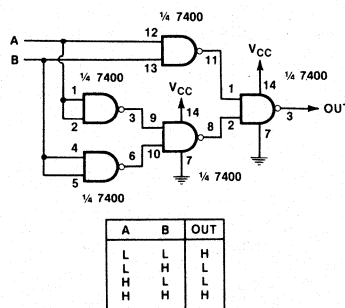
NOR Gate



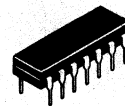
4-Input NAND Gate



Exclusive-OR Gate



Exclusive-NOR Gate

7404
276-1802**HEX INVERTER****GENERAL DESCRIPTION**

This device employs TTL logic to achieve high speed at moderate power dissipation. This hex inverter provides the basic functions used in the implementation of digital integrated circuit systems.

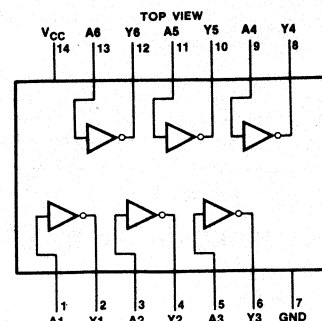
For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

Two possible ways of handling unused inputs are:

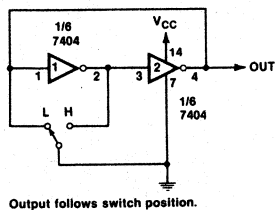
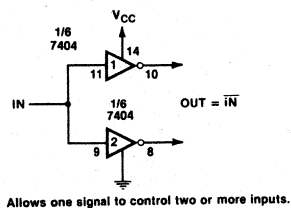
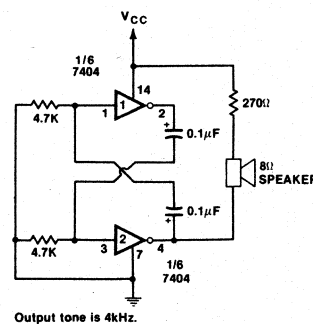
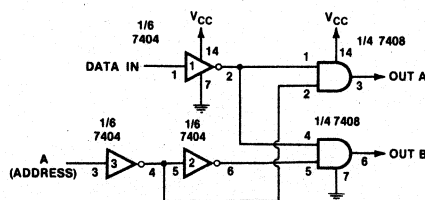
- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, A 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0$ V, $I_{IN} = -12$ mA)	-1.5 V
Input High Current ($V_{CC} = \text{Max.}$, $V_{IN} = 2.4$ V)	40 μ A
Input Low Current ($V_{CC} = \text{Max.}$, $V_{IN} = 0.4$ V)	-1.6 mA
Operating Temperature	0 to +70°C

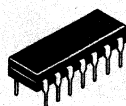
PIN CONNECTION**TRUTH TABLE**

$$Y = \bar{A}$$

TYPICAL APPLICATIONS**Bouncefree Switch****Universal Expander****Audio Oscillator**

DATA	ADDRESS	OUT A	OUT B
L	L	L	H
H	L	H	H
L	H	H	L
H	H	H	H

1-of-2 Demultiplexer



QUAD TWO-INPUT AND GATE

7408
276-1822

GENERAL DESCRIPTION

This device employs TTL logic to achieve high speed at moderate power dissipation. These gates provide the basic functions used in the implementation of digital integrated circuit systems.

For best noise immunity and switching speed, unused inputs should not be left floating, but should be held between 2.4 V and the absolute maximum input voltage.

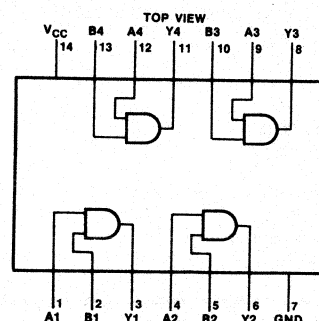
Two possible ways at handling unused inputs are:

- (1) Connect unused inputs to V_{CC} . For all multi-emitter conventional TTL inputs, a 1 to 10K ohm current limiting series resistor is recommended, to protect against V_{CC} transients that exceed 5.5 V.
- (2) Connect the unused input to the output of an unused gate that is forced high.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	5.25 V
Input High Voltage	2.0 V
Input Low Voltage	0.8 V
Input Clamp Diode Voltage ($V_{CC} = 5.0$ V, $I_{IN} = -12$ mA)	-1.5 V
Input High Current ($V_{CC} = \text{Max.}$, $V_{IN} = 2.4$ V)	40 μ A
Input Low Current ($V_{CC} = \text{Max.}$, $V_{IN} = 0.4$ V)	-1.6 mA
Operating Temperature	0 to +70°C

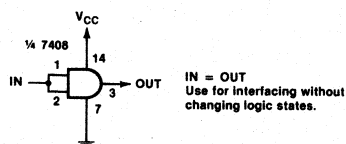
PIN CONNECTION



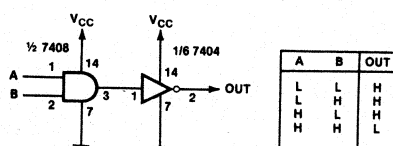
TRUTH TABLE

$$Y = AB$$

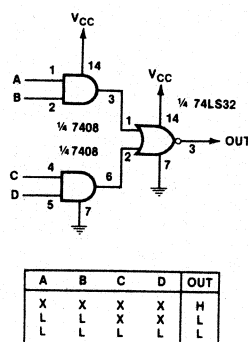
TYPICAL APPLICATIONS



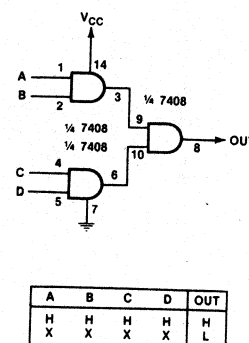
AND Gate Buffer



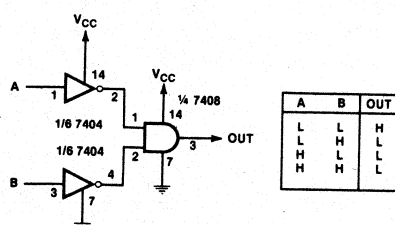
NAND Gate



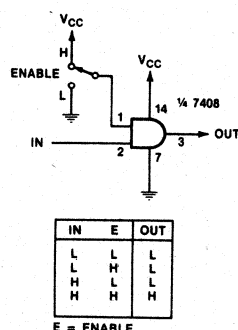
AND-OR-Invert Gate



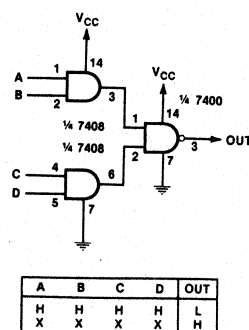
4-Input AND Gate



NOR Gate



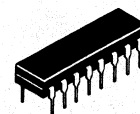
Digital Transmission Gate



4-Input NAND Gate

7447
 276-1805

BCD TO SEVEN-SEGMENT DECODER/DRIVER



GENERAL DESCRIPTION

This versatile binary-coded-decimal 7-segment display driver fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) light emitting diodes (LED) or lamp displays. It fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The output will withstand 15 Volts at a maximum leakage current of 250 μ A.

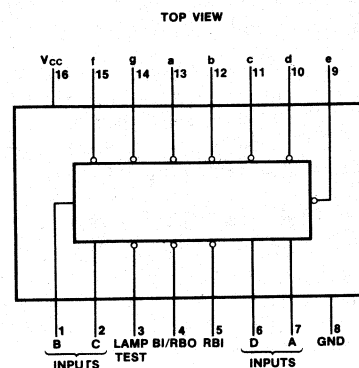
FEATURES

- Lamp-test input
- Leading trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes
- Open collector outputs drive indicators directly

ABSOLUTE MAXIMUM RATINGS

Supply Voltage V_{CC}	4.75 – 5.25 V
Continuous Voltage at Outputs a-g	Max. 5.5 V
Logic 1 Input Voltage	Min. 2 V
Logic 0 Input Voltage	Max. 0.8 V
Logic 0 Output Voltage	Max. 0.4 V
Logic 1 Output Voltage at a-g	Min. 2.4 V
Logic 1 Output Voltage at BI/RBO	Min. 2.4 V
Power	320 mW

PIN CONNECTION



TRUTH TABLE

DECIMAL OR FUNCTION	INPUTS						BI/RBO†	OUTPUTS							NOTE
	LT	RBI	D	C	B	A		a	b	c	d	e	f	g	
0	H	H	L	L	L	L	H	H	H	H	H	H	H	L	1
1	H	X	L	L	L	H	H	L	H	H	L	L	L	L	
2	H	X	L	L	H	L	H	H	H	L	H	H	L	H	
3	H	X	L	L	H	H	H	H	H	H	L	L	H	H	
4	H	X	L	H	L	L	H	L	H	H	L	L	H	H	
5	H	X	L	H	L	H	H	H	L	H	H	L	H	H	
6	H	X	L	H	H	L	H	L	L	H	H	H	H	H	
7	H	X	L	H	H	H	H	H	H	H	L	L	L	L	
8	H	X	H	L	L	L	H	H	H	H	L	L	H	H	
9	H	X	H	L	L	H	H	H	H	H	L	L	H	H	
10	H	X	H	L	H	L	H	L	L	H	H	H	L	H	
11	H	X	H	H	L	H	H	L	L	H	H	L	L	H	
12	H	X	H	H	L	L	H	L	H	L	L	L	H	H	
13	H	X	H	H	L	H	H	H	L	L	H	L	H	H	
14	H	X	H	H	H	L	H	L	L	L	H	L	L	L	
15	H	X	H	H	H	H	H	L	L	L	L	L	L	L	
BI	X	X	X	X	X	X	L	L	L	L	L	L	L	L	2
RBI	H	L	L	L	L	L	L	L	L	L	L	L	L	L	3
LT	L	X	X	X	X	X	H	H	H	H	H	H	H	H	4

H = High Level, L = Low Level, X = Irrelevant

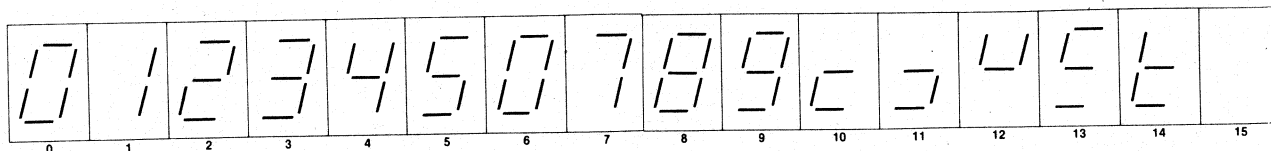
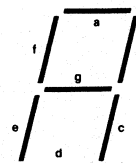
Notes: 1. The blanking input (BI) must be open or held at a high logic level when output functions 0 thru 15 are desired. The ripple-blanking input (RBI) must be open or high, if blanking of a decimal zero is not desired.

2. When a low logic level is applied directly to the blanking input (BI), all segment outputs are low regardless of the level of any other input.

3. When ripple-blanking input (RBI) and inputs A, B, C, and D are at a low level with the lamp-test input high, all segment outputs go low and the ripple-blanking output (RBO) goes to a low level (response condition).

4. When the blanking input/ripple-blanking output (BI/RBO) is open or held high and a low is applied to the lamp test input, all segment outputs are high.

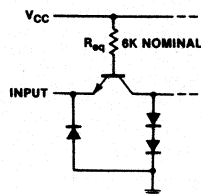
† BI/RBO is wire-AND logic serving as blanking input (BI) and/or ripple-blanking output (RBO).



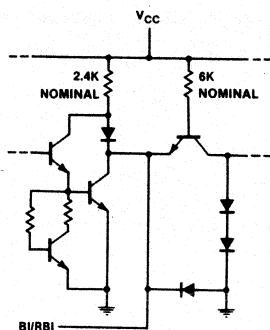
Numerical Designations and Resultant Displays

7447 276-1805

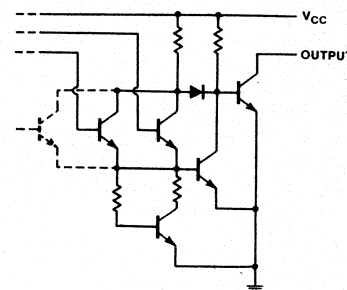
INPUT/OUTPUT EQUIVALENTS



Each Input Except BI/RBO

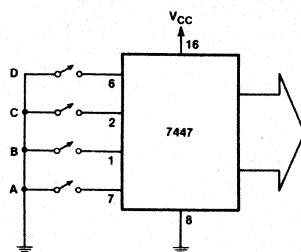


BI/RBO Input

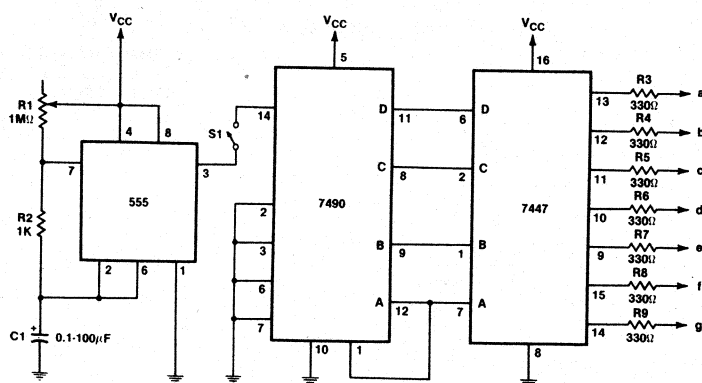


Typical of Outputs a Thru g

TYPICAL APPLICATIONS



Manually Switched Display

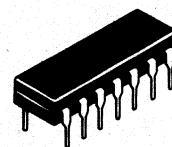


Close S1 to start timing cycle.
Calibrate 555 for 1 pulse (count) per second or 1 count per minute by adjusting R1.

0-9 Second/Minute Timer

7490
 276-1808

DIVIDE BY 2 OR 5, BCD COUNTER



GENERAL DESCRIPTION

This monolithic BCD counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length, the B input is connected to the Q_A output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the Q_D output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output Q_A .

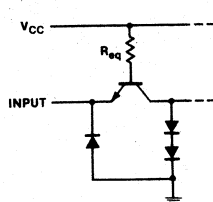
FEATURES

- Low power consumption
- High count rates . . . typically 50MHz
- Choice of counting modes
- Fully TTL and CMOS compatible

ABSOLUTE MAXIMUM RATINGS

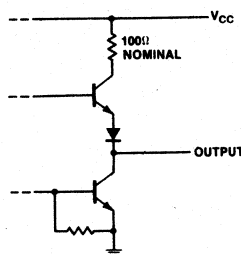
Typical Power Dissipation	145 mW
Count Frequency	42 MHz
High Level Input Voltage (Min)	2 V
Low Level Input Voltage (Max)	0.8 V
High Level Input Current	800 μ A
Low Level Output Current (Max)	16 mA
V_{CC} to Ground	-0.5 to +7.0 V
Voltage Applied to Outputs (Output High)	-0.5 to +5.5 V

INPUT/OUTPUT EQUIVALENTS



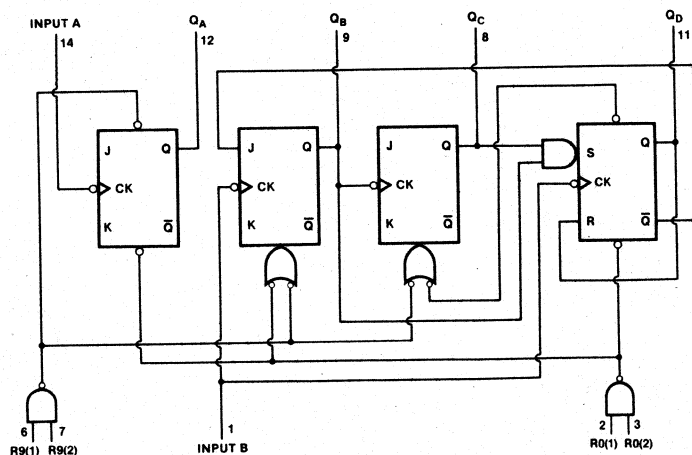
INPUT	R_{eq} NOMINAL
A	2.5K
B	1.25K
ALL RESETS	6K

Each Input

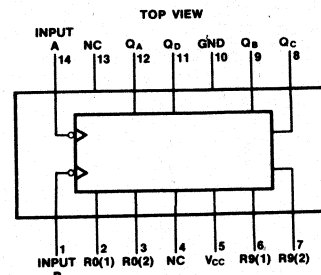


Typical of all Outputs

BLOCK DIAGRAM



PIN CONNECTION



TRUTH TABLES

RESET/COUNT

RESET INPUTS				OUTPUTS			
RO(1)	RO(2)	R9(1)	R9(2)	Q_D	Q_C	Q_B	Q_A
H	H	L	X	L	L	L	L
H	H	X	L	L	L	L	L
X	X	H	H	H	L	L	H
X	L	X	L	COUNT			
L	X	L	X	COUNT			
L	X	X	L	COUNT			
X	L	L	X	COUNT			

BCD COUNT SEQUENCE (See Note A)

COUNT	OUTPUTS			
	Q_D	Q_C	Q_B	Q_A
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	L	H	L	H
6	L	H	H	L
7	L	H	H	H
8	H	L	L	L
9	H	L	L	H

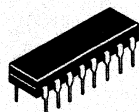
BI-QUINARY (5-2) (See Note B)

COUNT	OUTPUTS			
	Q_A	Q_D	Q_C	Q_B
0	L	L	L	L
1	L	L	L	H
2	L	L	H	L
3	L	L	H	H
4	L	H	L	L
5	H	L	L	L
6	H	L	L	H
7	H	L	H	L
8	H	L	H	H
9	H	H	L	L

L = Low Level
H = High Level

Notes:

- (A) Output Q_A is connected to input B for BCD count.
(B) Output Q_D is connected to input A for bi-quinary count.



TONE ENCODER

TCM5089

276-1301

GENERAL DESCRIPTION

The TCM5089 is specifically designed for the dual-tone telephone dialing system.

In addition to fixed supply voltage operation, the tone encoder provides negative-true keyboard input, tone inhibit input, stable output tone level, any key depressed feature as well as a single tone inhibit pin.

An inexpensive TV crystal is used to generate eight different audio sinusoidal frequencies.

The tones suitable for dual-tone multi-frequency (DTMF) telephone dialing are digitally synthesized on the chip. The conventional R-2R ladder network is used to provide on-chip digital to analog conversion. The current-to-voltage transformation for D-to-A converter is accomplished by the same operational amplifier which sums up the "low-group" and "high-group" signals.

The waveforms generated in the manner described above have very low total harmonic distortion. Moreover, the frequency stability of this tone encoder complies with standard DTMF specifications without need for any frequency adjustments.

Two voice frequency signals are linearly added to create the dual-tone signal. One frequency is selected from a "low-group" and the other from a "high-group" of frequencies. The "low-group" consists of four frequencies 697, 770, 852, and 941 Hertz. The "high-group" consists of four frequencies 1209, 1336, 1477, and 1633 Hertz.

The number entry is accomplished by a keyboard arranged in a row, column format. In order to select one appropriate row and one appropriate column, a push button corresponding to a digit is pushed. One of the "high-group" frequencies is selected by the active column input and one of the "low-group" frequencies is selected by the active row input. The highest "high-group" frequency of 1633 hertz is not used in standard dual-tone implementation.

The total harmonic and intermodulation distortions of the dual-tone should be less than 10% at the telephone terminals. The frequency tolerance is $\pm 1.0\%$. TCM5089 tone encoder provides accuracy of less than 0.75%. The "high-group" to "low-group" signal amplitude ratio should be 2.0 ± 1 dB. The above mentioned specifications hold over the safe operating temperature range for either short loop or long loop telephone application.

The TCM5089 is compatible with keyboard as well as electronic inputs. A keyboard diagram is shown in figures 1, and 2. The electronic inputs are shown in figure 3. The standard CMOS operated off the same supply as TCM5089 or open collector TTL can be used for electronic control. The keyboard inputs are standard CMOS with pull-up resistors to the supply voltage V_{DD} . CMOS circuits are capable of realizing resistance up to 1K Ω as a valid key closure; therefore, the precious metals used in keyboard switch contacts can be saved.

In order to generate a particular column tone, the column is connected to V_{SS} and the single tone inhibit is tied to V_{DD} . No tones will result if more than one column is connected to V_{SS} . When one or more rows are connected to V_{SS} , no tones are generated. In order to generate a particular row tone, the row is connected to V_{SS} along with any two column pins. The generation of dual-tones requires connection of a single row and a single column to V_{SS} .

Pin 15 is used to inhibit the generation of single tones. This pin is capable of pulling down to V_{SS} supply voltage. The dual or the single tones are generated as described under keyboard Interface when this pin is connected to V_{DD} supply voltage. When this pin is pulled down to V_{SS} or left floating, all chip functions remain unchanged except for the single tone operation which results in no tone at this voltage level.

The following formula is used to calculate the total harmonic distortion of a single row or a single column.

$$THD = \frac{(\sqrt{V_{2f}^2 + V_{3f}^2 + V_{4f}^2 + V_{5f}^2 + \dots + V_{nf}^2}) \times 100\%}{V_F}$$

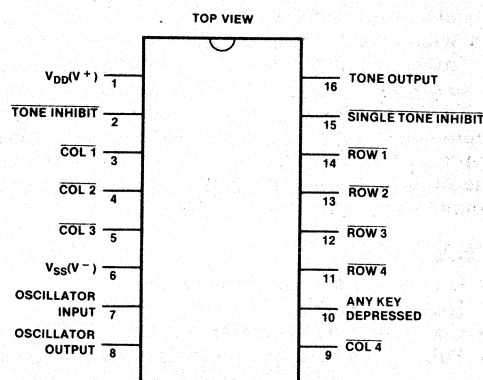
Where V_{2f} is the second harmonic of the fundamental frequency waveform and so on.

The dual-tone total harmonic distortion is given by the following formula:

$$THD = \frac{(\sqrt{V_{2R}^2 + V_{3R}^2 + \dots + V_{nR}^2 + V_{2C}^2 + \dots + V_{nC}^2 + V_{IMD}^2}) \times 100\%}{\sqrt{V_{FR}^2 + V_{FC}^2}}$$

Where V_{FR} and V_{FC} are the row and column fundamental frequency waveforms, V_{2R} and V_{2C} , etc. are the corresponding harmonics.

PIN CONNECTION



2-OF-8 DTMF KEYBOARD (DPST)

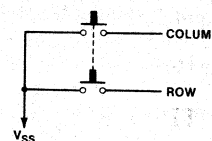


Figure 1—Keyboard Diagram

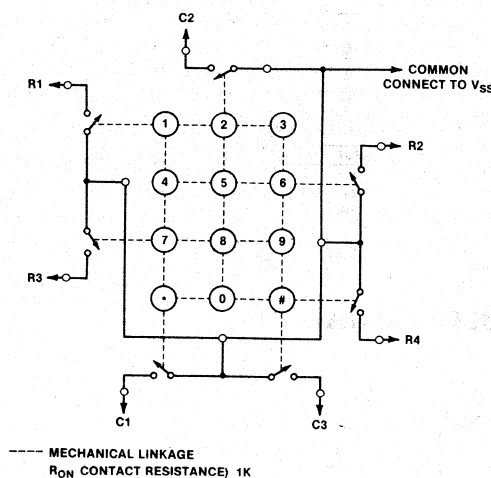


Figure 2—Pushbutton Telephone Keyboard

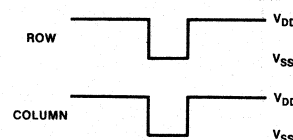


Figure 3—Electronic Inputs

TCM5089 276-1301**GENERAL DESCRIPTION (Cont'd)**

V_{IMD}^2 denotes the total intermodulation distortion.

$$V_{\text{IMD}}^2 = (V_R + C)^2 + (V_R - C)^2 + \dots + (V_{nR} + mC)^2 + (V_{nR} - mC)^2$$

A relatively simple method of distortion measurement uses a spectrum analyzer to relate the harmonics to the fundamental frequency waveform.

The tone encoder spectrum indicates the harmonics and intermodulation distortion at least 30dB down relative to the column tone. Another method for distortion measurement of the dual-tone waveform is to compare the total power in the fundamental frequencies with the total power in the various harmonics plus intermodulation on a signal analyzer. The TCM5089 provides an output distortion of -20dB maximum.

Moreover, when the device is operated between 3 volts and 3.5 volts, some clipping occurs at the output waveform causing the distortion in this voltage range to exceed -20dB maximum.

Pin 10 is used for electronic control of the transmitter and/or the receiver switching as well as other functions. This pin acts like an open-circuit. However, when a keyboard button is pushed, the pin switches to V_{SS} .

The status of the tone inhibit and the single tone inhibit does not affect the output at pin 10.

The level of the TCM5089's output tone is proportional to the fixed DC supply voltage. In order to increase the temperature stability of the device, operation is usually performed with a regulated supply. The reason being that the temperature stability of the supply voltage can be controlled. The tone output i.e., pin 16 is tied internally to the emitter of an NPN transistor. The collector of this transistor is connected to the V_{DD} supply voltage. The base of this transistor is connected to the output of the on-chip Op Amp used to add the column and row tones and facilitate output level regulations.

The purpose of pin 2 is to prevent tone generation when the keyboard is not used for DTMF application. This pin has a pull-up to V_{DD} voltage supply. It inhibits tone generation when connected to V_{SS} . However, other chip functions remain unchanged.

FEATURES

- Fixed-supply voltage operation
- Minimal standby power requirement
- Use of inexpensive television colorburst crystal (3.579545MHz to provide highly accurate and stable tones)
- Minimum external parts required
- Total harmonic distortion complies with industry standards
- Dual-tone and single-tone capability
- Single tone inhibit selects DTMF only
- Tone inhibit capability to allow keyboard to be used for non-DTMF functions
- Any key depressed control capability
- Device power delivered directly from the telephone lines or small batteries (e.g., 9 volts) due to CMOS low power circuitry
- Electronic input capability

ABSOLUTE MAXIMUM RATINGS

DC Supply Voltage, V_{DD}	+13.5 V
Pin Voltage Relative to V_{DD} (Except Pin 10)	+0.30 V
Pin Voltage Relative to V_{SS} (Except Pin 10)	-0.30 V
Maximum Package Power Capability	1150 mW
Operating Ambient Temperature	-30 to +70°C
Storage Ambient Temperature	-55 to +150°C

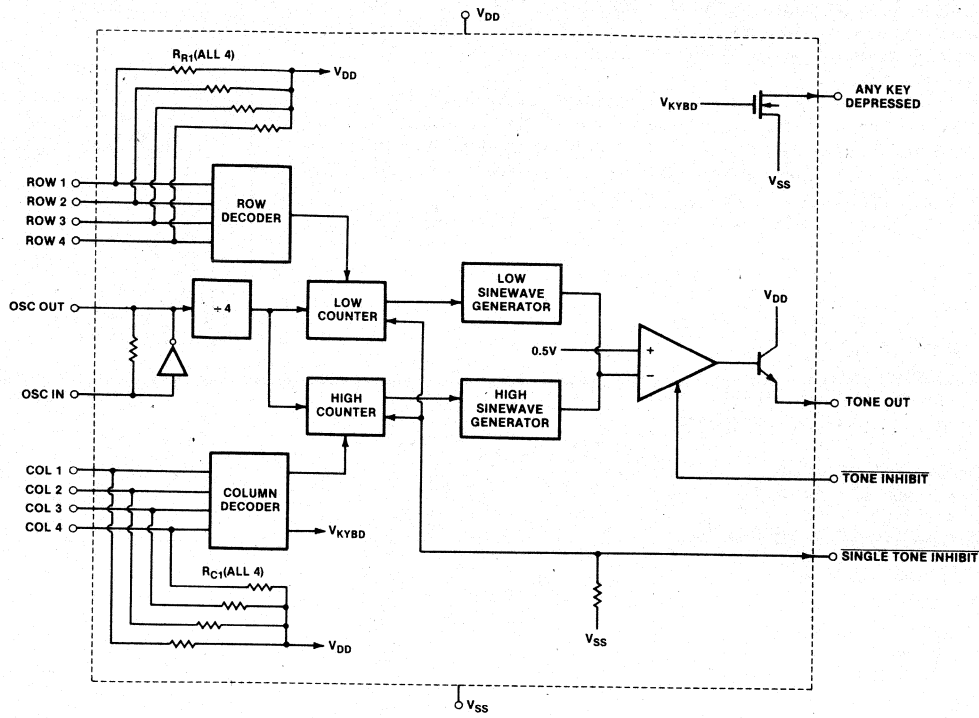
TABLE

Comparison of standard versus actual tones generated by TCM5089 using $F = 3.579545 \text{ MHz} \pm .02\%$ crystal oscillator.

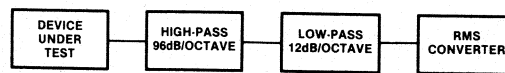
FREQUENCY	STANDARD DTMF	OUTPUT TONE	%ERROR
$f_1(R_1)$	697	701.3	+0.62
$f_2(R_2)$	770	771.4	+0.19
$f_3(R_3)$	852	857.2	+0.61
$f_4(R_4)$	941	935.1	-0.63
$f_5(C_1)$	1209	1215.9	+0.57
$f_6(C_2)$	1336	1331.7	-0.32
$f_7(C_3)$	1477	1471.9	-0.35
$f_8(C_4)$	1633	1645	+0.73

TCM5089 276-1301

BLOCK DIAGRAM



TEST CIRCUITS

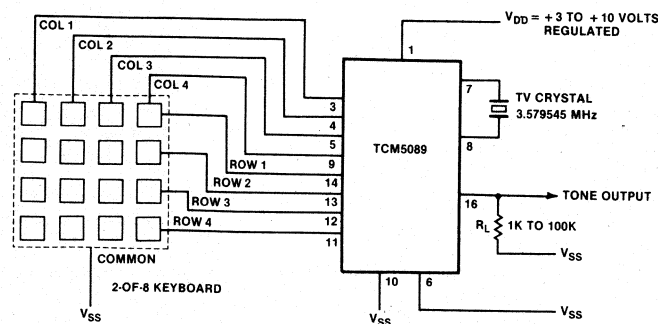


Distortion Measurement

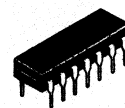


Frequency Test

TYPICAL APPLICATION



Typical Hook-up Configuration

4001
276-2401**QUAD TWO-INPUT NOR GATE****GENERAL DESCRIPTION**

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

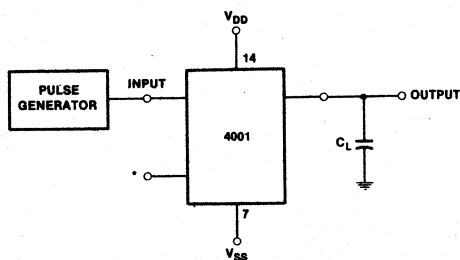
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation—positive or negative
- High fanout > 50
- Input impedance = 10^{12} ohms typical
- Logic swing independent of fanout

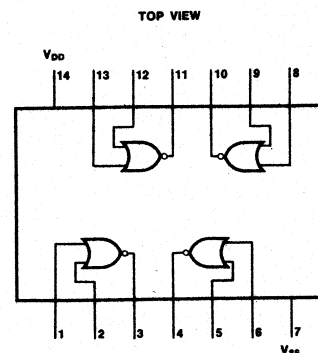
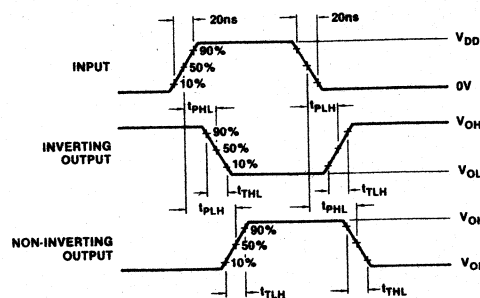
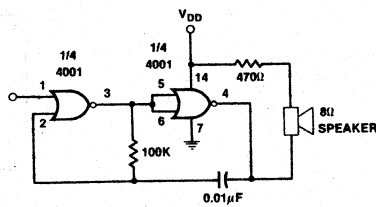
ABSOLUTE MAXIMUM RATINGS

(Voltages referenced to V_{SS})

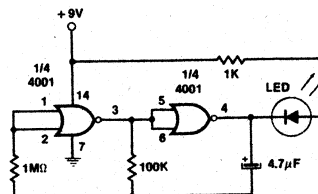
DC Supply Voltage.....	-0.5 to +16 Vdc
Input Voltage, All Inputs.....	-0.5 to V_{DD} + 0.5 Vdc
DC Current Drain per Pin.....	10 mAdc
Operating Temperature Range.....	-40 to +85°C
Storage Temperature Range.....	-65 to +150°C

SWITCH TIME TEST CIRCUIT

*All unused inputs of OR, NOR gates must be connected to V_{SS} .

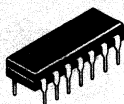
PIN CONNECTION**SYNC TIMING WAVEFORMS****TYPICAL APPLICATIONS**

Tone frequency is about 1kHz

Gated Tone Source

LED flashes 1-2 times/second

LED Flasher



QUAD TWO-INPUT NAND GATE

4011
276-2411

GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

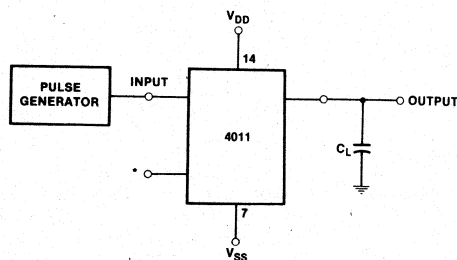
FEATURES

- Quiescent current = 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Double diode protection on all inputs

ABSOLUTE MAXIMUM RATINGS (Voltages referenced to V_{SS})

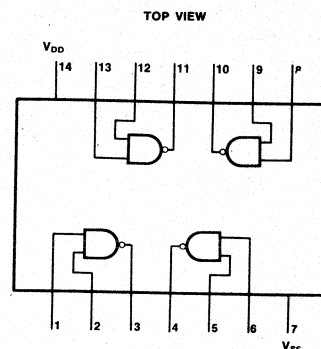
DC Supply	−0.5 to +16 Vdc
Input voltage, All Inputs	−0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

SWITCH TIME TEST CIRCUIT

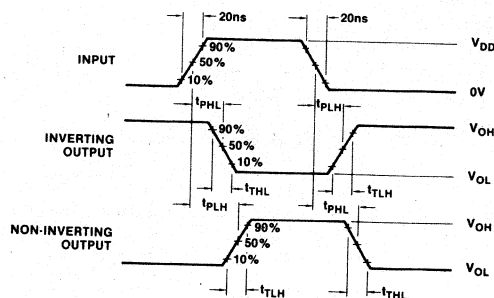


*All unused inputs of AND, NAND gates must be connected to V_{DD} .

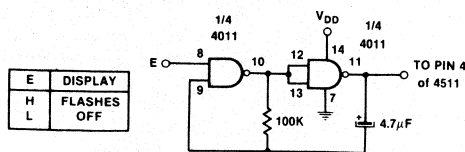
PIN CONNECTION



SYNC TIMING WAVEFORMS

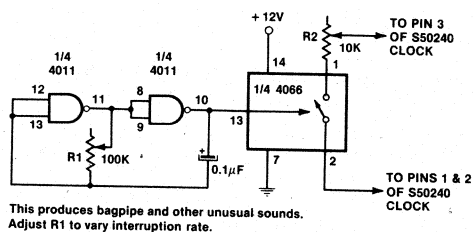


TYPICAL APPLICATIONS



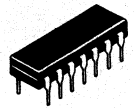
Display flashes once per second when E is high.

Display Flasher



This produces bagpipe and other unusual sounds. Adjust R1 to vary interruption rate.

Special Effects

4013
276-2413**DUAL TYPE D FLIP-FLOP****GENERAL DESCRIPTION**

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data, (D), Direct Set, (S), Direct Reset, (R), and Clock (C) inputs and complementary outputs (Q and \bar{Q}). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

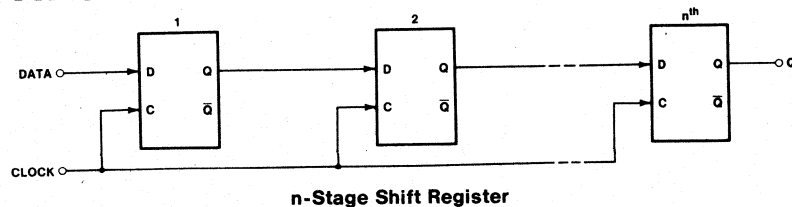
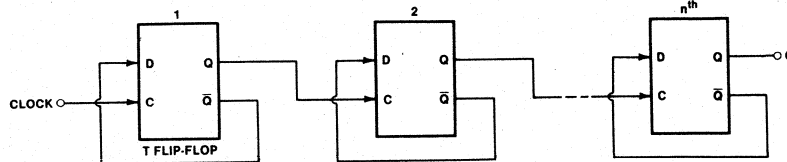
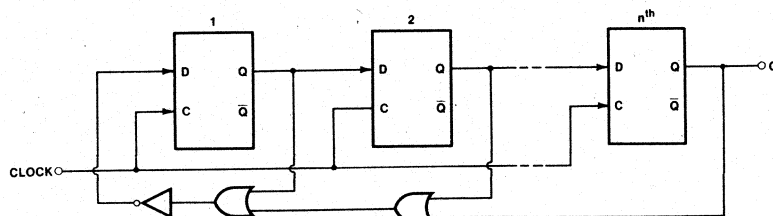
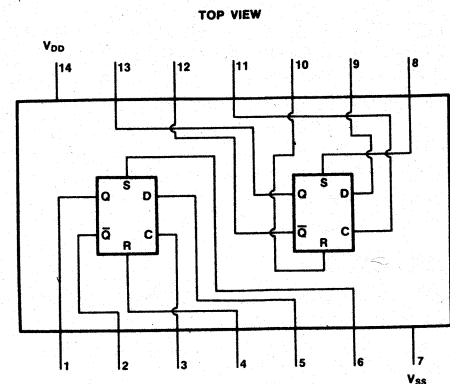
Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Static operation
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Noise immunity = 45% of V_{DD} typical
- Diode protection on all inputs
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Single supply operation
- Toggle rate = 4 MHz typical @ 5 Vdc
- Logic edge-clocked flip-flop design—logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse.
- Capable of driving two-low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range.

ABSOLUTE MAXIMUM RATINGS(Voltages referenced to V_{SS})

DC Supply Voltage	−0.5 to +16 Vdc
Input Voltage, All Inputs	−0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	−40 to +85°C
Storage Temperature Range	−65 to +150°C

TYPICAL APPLICATIONS**n-Stage Shift Register****Binary Ripple Up-Counter (Divide-by-2ⁿ)****Modified Ring Counter (Divide-by-(n+1))****PIN CONNECTION****TRUTH TABLE**

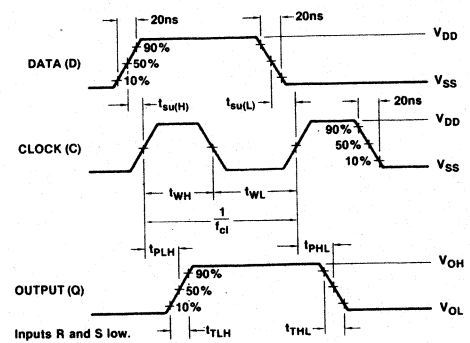
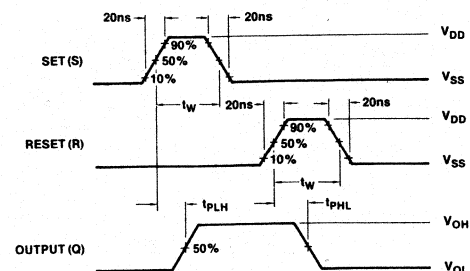
INPUTS				OUTPUTS	
Clock†	Data	Reset	Set	Q	\bar{Q}
—	L	L	L	L	H
—	H	L	L	H	L
—	X	L	L	No Change	No Change
X	X	H	L	L	H
X	X	L	H	H	L
X	X	H	H	H	H

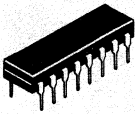
X = Don't Care

H = High Level

L = Low Level

† = Level Change

SYNC TIMING WAVEFORMS**Data, Clock, and Output****Set, Reset, and Output**



DECADE COUNTER/DIVIDER

4017
 276-2417

GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{in} and V_{out} be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

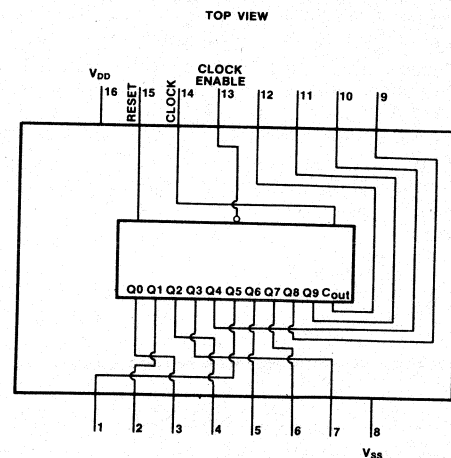
- Fully static operation
- DC clock input circuit allows slow rise times
- Carry out output for cascading
- 12 MHz (typical) operation @ $V_{DD} = 10$ Vdc
- Quiescent current = 5.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc
- Capable of driving two low-power TTL loads, one low-power schottky TTL load or two HTL loads over the rated temperature range

ABSOLUTE MAXIMUM RATINGS

(Voltages referenced to V_{SS})

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5$ Vdc
DC Current Drain per Pin	10 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

PIN CONNECTION



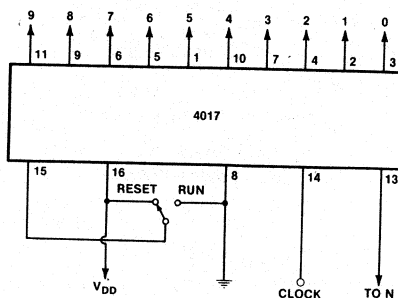
TRUTH TABLE (Positive Logic)

Clock	Clock Enable	Reset	Decode Output = n
L	X	L	n
X	H	L	n
X	X	H	QL
	L	L	n + 1
	X	L	n
X		L	n
1		L	n + 1

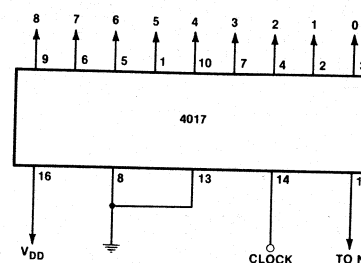
X = Don't Care If n < 5 Carry = "H",
 Otherwise = "L"

L = Low Level H = High Level

TYPICAL APPLICATIONS



Count to N and Halt

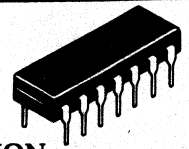


For N = 9, ground pin 15.

Count to N and Recycle

4023

276-2423

TRIPLE 3-INPUT "NAND" GATE**GENERAL DESCRIPTION**

The 4023 is constructed with P- and N-channel enhancement mode devices in a single monolithic structure. Its primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN} \text{ or } V_{OUT}) \leq V_{DD}$.

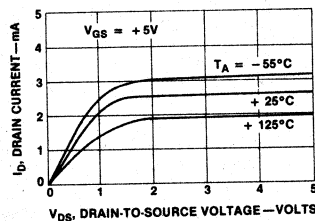
Unused inputs must always be tied to an appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

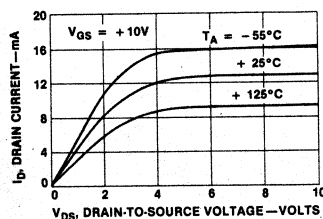
- Quiescent current — 0.5 nA typ/pkg @ 5 Vdc
- Noise immunity — 45% of V_{DD} typical
- Supply voltage range — 3 to 18 Vdc
- Double diode protection on all inputs

ABSOLUTE MAXIMUM RATINGS

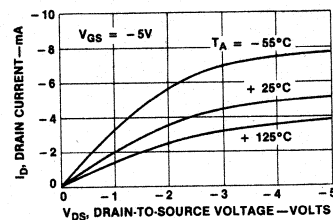
DC Supply Voltage	— 0.5 to +18 V
Input Voltage, All Inputs	— 0.5 to +0.5 V
DC Current Drain per Pin	— 10 mA
Operating Temperature Range	— 40 to +85°C
Storage Temperature Range	— 65 to +150°C

TYPICAL CHARACTERISTICS

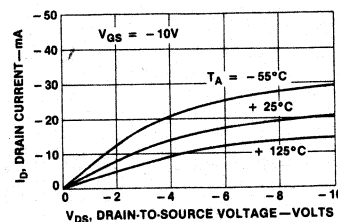
Drain Current vs
Drain-to-Source Voltage



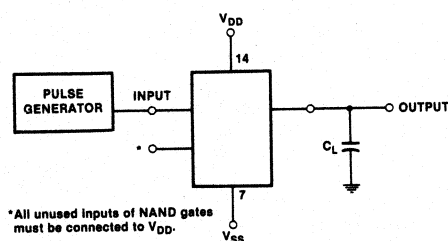
Drain Current vs
Drain-to-Source Voltage



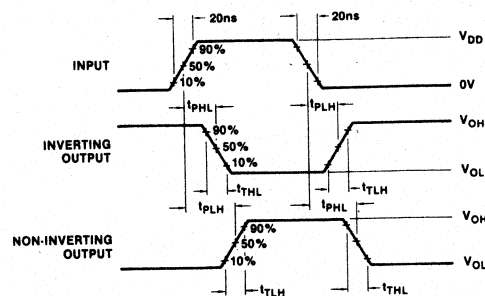
Drain Current vs
Drain-to-Source Voltage



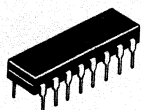
Drain Current vs
Drain-to-Source Voltage

SWITCH TIME TEST CIRCUIT

Test Circuit



Switching Time Waveforms



INVERTING HEX BUFFER

4049
276-2449

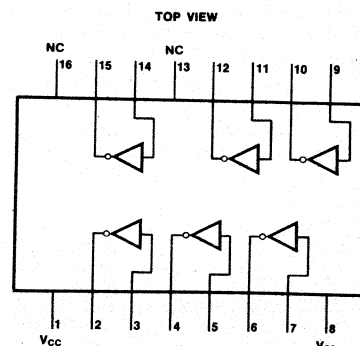
GENERAL DESCRIPTION

The 4049 hex inverter/buffer is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, V_{CC} . The input-signal high level (V_{IH}) can exceed the V_{CC} supply voltage for logic-level conversions. Two TTL/DTL loads can be driven when the devices are used as CMOS-to-TTL/DTL converters ($V_{CC} = 5.0\text{ V}$, $V_{OL} \leq 0.4\text{ V}$, $I_{OL} \geq 3.2\text{ mA}$). Note that pin 16 is not connected internally on this device; consequently connections to this terminal will not affect circuit operation.

FEATURES

- High source and sink currents
- High-to-low level converter
- Quiescent current = 2.0 nA/package typical @ 5 Vdc
- Supply voltage range = 3.0 Vdc to 16 Vdc

PIN CONNECTIONS

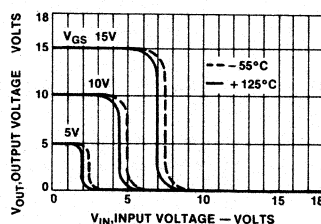


ABSOLUTE MAXIMUM RATINGS

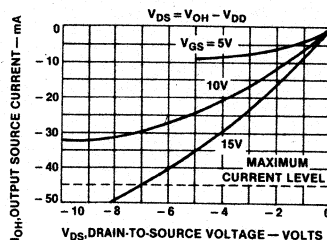
(Voltages referenced to V_{SS} , Pin 8)

DC Supply Voltage	-0.5 to +16 Vdc
Input Voltage, All Inputs	-0.5 to $V_{DD} + 0.5\text{ Vdc}$
DC Current Drain per Input Pin	10 mAdc
DC Current Drain per Output Pin	45 mAdc
Operating Temperature Range	-40 to +85°C
Storage Temperature Range	-65 to +150°C

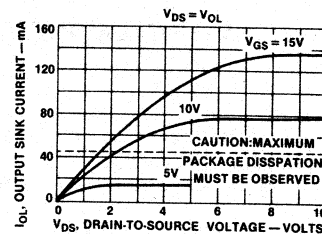
TYPICAL CHARACTERISTICS



Output Voltage
vs Input Voltage

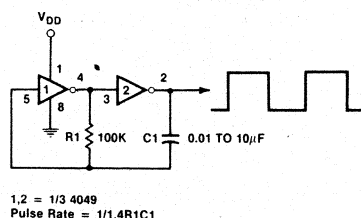


Output Source Current vs
Drain-To-Source Voltage

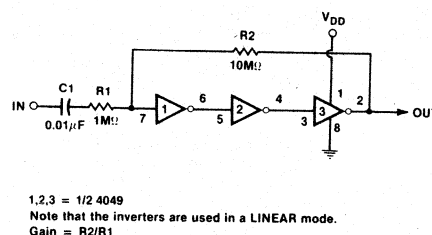


Output Sink Current vs
Drain-To-Source Voltage

TYPICAL APPLICATIONS



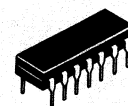
Clock Pulse Generator



Linear IOX Amplifier

4066
 276-2466

QUAD BILATERAL SWITCH



GENERAL DESCRIPTION

The 4066 consists of four independent switches capable of controlling either digital or analog signals. This Quad Bilateral Switch is useful in signal gating, chopper, modulator, demodulator, and CMOS logic implementation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electrical fields; however, it is advised that normal precautions be taken to avoid applications of any voltage higher than maximum rated voltages to this high impedance circuit.

For proper operation it is recommended that V_{IN} and V_{OUT} be constrained to the range $V_{SS} \leq (V_{IN} \text{ or } V_{OUT}) \leq V_{DD}$.

Unused inputs must always be tied to the appropriate logic voltage level (e.g., either V_{SS} or V_{DD}).

FEATURES

- Wide supply voltage range—3V to 15V
- High noise immunity— $0.45 V_{DD}$ typ
- Wide range of digital and analog switching— $\pm 7.5 V_{PEAK}$
- "ON" resistance for 15V operation— 80Ω typ
- Matched "ON" resistance over 15V signal input— $\Delta R_{ON} = 5\Omega$ typ
- "ON" resistance flat over peak-to-peak signal range
- High "ON"/"OFF" output voltage ratio—65 dB typ
- High degree of linearity— $<0.4\%$ distortion typ
- Extremely low "OFF" switch leakage— 0.1 nA typ
- Extremely high control input impedance— $10^{12}\Omega$ typ
- Low crosstalk between switches— -50 dB typ
- Frequency response, switch "ON"—40 MHz typ

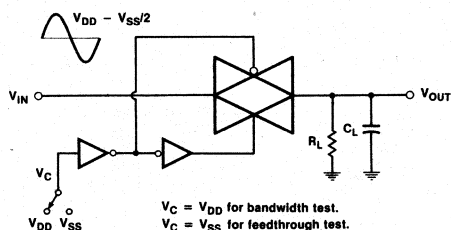
APPLICATIONS

- Analog signal switching/multiplexing
 - Signal gating
 - Squelch control
 - Chopper
 - Modulator/Demodulator
 - Commutating switch
- Digital signal switching/multiplexing
- CMOS logic implementation
- Analog-to-digital/digital-to-analog conversion
- Digital control of frequency, impedance, phase, and analog-signal gain

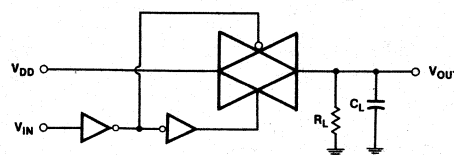
ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	-0.5V to +18V
Input Voltage.....	-0.5 to $V_{DD} + 0.5V$
Package Dissipation.....	500 mW
Operating Temperature Range.....	-40 to +85°C
Storage Temperature Range.....	-65 to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

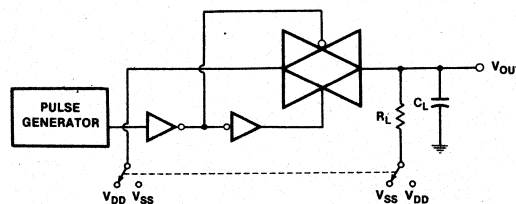
TYPICAL APPLICATIONS



Bandwidth and Feedthrough Attenuation

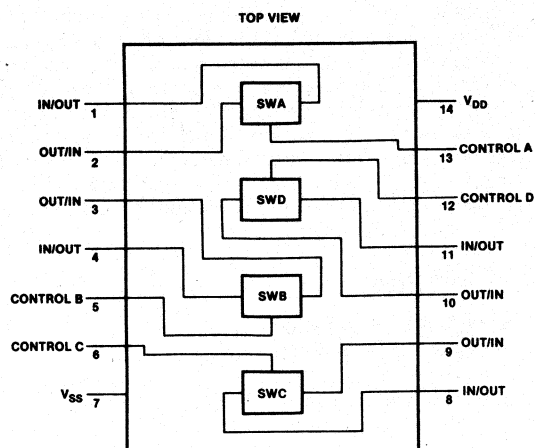


Input Voltage



Propagation Delay Time, Control to Output

PIN CONNECTION

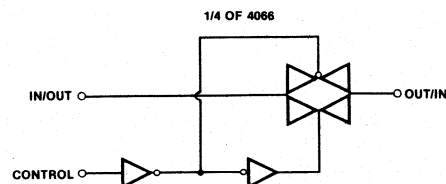


TRUTH TABLES

CONTROL	SWITCH
0	OFF
1	ON

$V_{CONTROL}$	V_{IN} TO V_{OUT} RESISTANCE
V_{SS}	$> 10^9$ ohms typical
V_{DD}	3×10^2 ohms typical

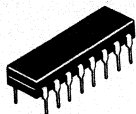
LOGIC DIAGRAM



LOGIC DIAGRAM RESTRICTIONS

$$V_{SS} < V_{IN} < V_{DD}$$

$$V_{SS} < V_{OUT} < V_{DD}$$



16K DYNAMIC RAM

4116
 276-2505

GENERAL DESCRIPTION

The 4116 is a $16,384 \times 1$ bit dynamic RAM. It features a multiplexed address input with separate row and column strobes. This added flexibility allows the 4116 to be used in page mode operation.

The 4116 must be refreshed every 2 ms. This can be accomplished by performing any cycle which brings the Row Address Strobe active including an RAS-only cycle at each of the 128 row addresses.

N-channel double-poly silicon gate technology is used in the manufacture of the 4116. This process combines high density and performance with reliability. Greater system densities are achievable by the use of a 16-pin dual-in-line package for the 4116.

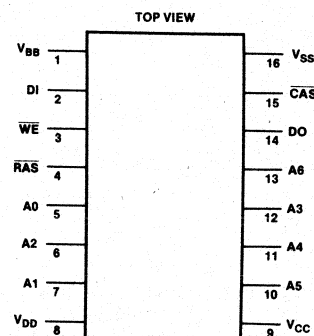
FEATURES

- Access times: 150 ns, 200 ns, 300 ns
- Low power; 462mW max
- TTL compatible: all inputs and output
- Gated CAS—noncritical timing
- Read, write, read-modify-write and RAS-only refresh cycles
- Page mode operation

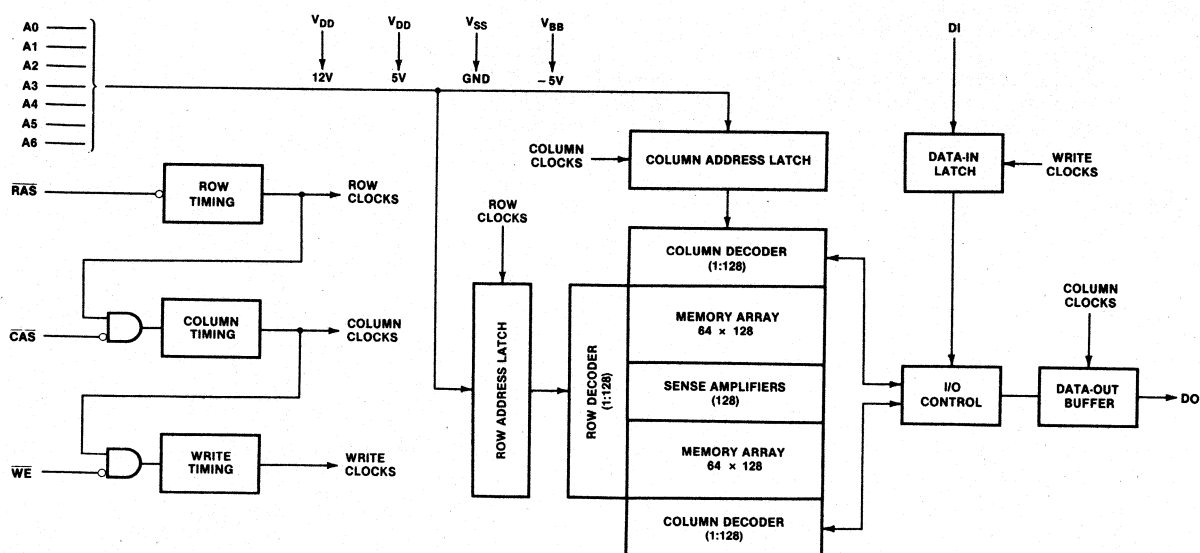
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	1W
Supply Voltage V_{DD}	13.2V
Supply Voltage V_{CC}	5.5V
Voltage on Any Pin Relative to V_{BB}	-0.3 to +20V ($V_{SS} - V_{BB} \geq 4.5V$)
Operating Temperature Range	0 to +70°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

PIN CONNECTION



INTERNAL CIRCUIT



Note: All voltages referenced to V_{SS} . When applying voltages to the devices, V_{DD} , V_{CC} , or V_{SS} should never be 0.5V more negative than V_{BB} .

TL317
276-1762

POSITIVE VOLTAGE REGULATOR

GENERAL DESCRIPTION

The TL317 is an adjustable 3-terminal positive voltage regulator capable of supplying 100 milliamperes over an output-voltage range of 1.2 volts to 32 volts. It is exceptionally easy to use and requires only two external resistors to set the output voltage. Both input and output regulation are better than standard fixed regulators.

In addition to higher performance than fixed regulators, this regulator offers full overload protection available only in integrated circuits. Included on the chip are current limit and thermal overload protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected. Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection, which is difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the regulator is useful in a wide variety of other applications. Since the regulator is floating and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input-to-output differential is not exceeded. Its primary application is that of a programmable output regulator, but by connecting a fixed resistor between the adjustment terminal and the output terminal, this device can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground, which programs the output to 1.2 volts where most loads draw little current.

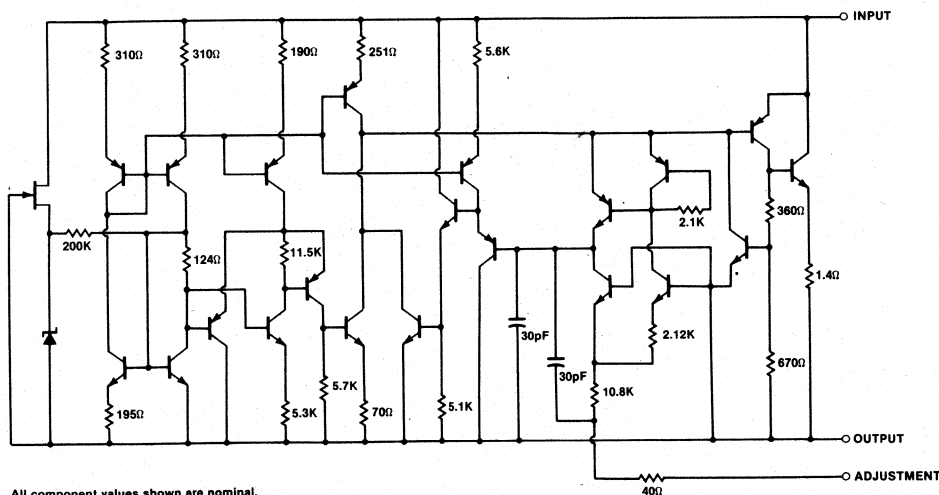
FEATURES

- Output voltage range adjustable from 1.2 V to 32 V
- Guaranteed I_O capability of 100 mA
- Input regulation typically 0.01% per input-volt change
- Output regulation typically 0.5%
- Ripple rejection typically 80 dB

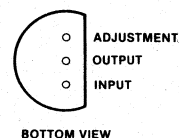
ABSOLUTE MAXIMUM RATINGS

Input-to-Output Differential Voltage, $V_I - V_O$ 35 V
 Continuous Total Dissipation at (or below) 25°C
 Free-Air Temperature 775 mW
 Continuous Total Dissipation at (or below) 25°C Case Temperature .. 1600 mW
 Operating Free-Air, Case, or Virtual Junction Temperature Range .. 0 to 150°C
 Storage Temperature Range -65 to 150°C
 Lead Temperature (1/16 inch from Case for 10 Sec.) 260°C

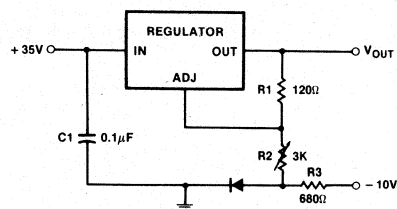
SCHEMATIC



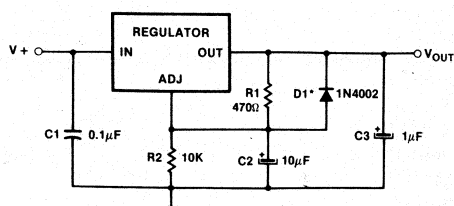
PIN CONNECTION



TYPICAL APPLICATIONS

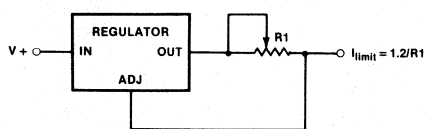


**0 to 30 V
Regulator Circuit**

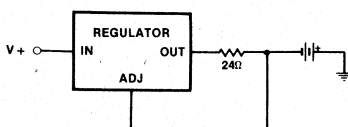


*D1 discharges C2 if output is shunted to ground.

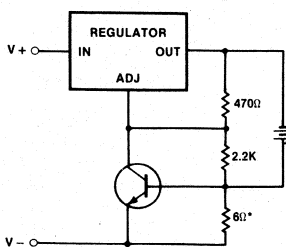
**Adjustable Regulator Circuit with
Improved Ripple Rejection**



**Precision Current
Limiter Circuit**

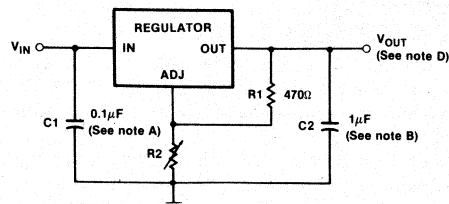


**50 mA Constant-Current
Battery Charger Circuit**



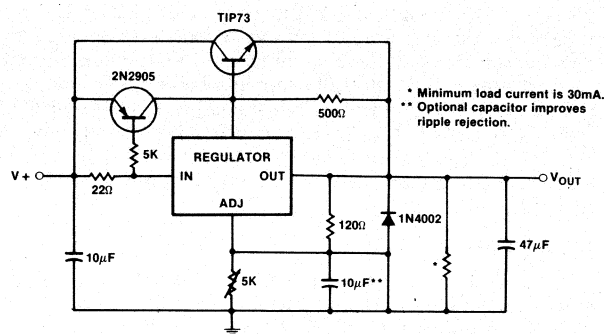
*This resistor set peak current (100mA for 60).

**Current-Limited
6V Charger**



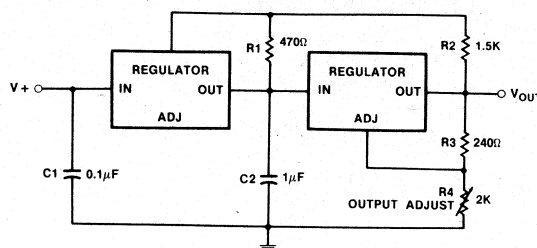
Notes: A. Use of an input bypass capacitor is recommended if regulator is far from filter capacitors.
B. Use of an output capacitor improves transient response but is optional.
C. V_{ref} equals the difference between the output and adjustment terminal voltages.
D. Output voltage is calculated from the equation: $V_{OUT} = V_{ref}(1 + R2/R1)$

**Adjustable
Voltage Regulator**

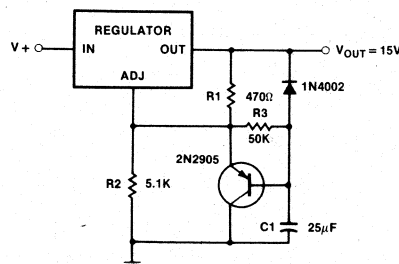


* Minimum load current is 30mA.
** Optional capacitor improves ripple rejection.

**High-Current
Adjustable Regulator**



**Tracking
Preregulator Circuit**



**Slow-Turn-On 15 V
Regulator Circuit**

317K
276-1777

317T
276-1778

3-TERMINAL ADJUSTABLE POSITIVE REGULATOR

GENERAL DESCRIPTION

The 317K and 317T are adjustable 3-terminal positive voltage regulators capable of supplying in excess of 1.5 A over a 1.2 V to 37 V output range. These devices are exceptionally easy to use and requires only two external resistors to set the output voltage.

In addition to higher performance than fixed regulators, the 317K and 317T offers full overload protection available only in IC's. Included on the chip are current limit, thermal overload protection and safe area protection. All overload protection circuitry remains fully functional even if the adjustment terminal is disconnected.

Normally, no capacitors are needed unless the device is situated far from the input filter capacitors in which case an input bypass is needed. An optional output capacitor can be added to improve transient response. The adjustment terminal can be bypassed to achieve very high ripple rejection ratios which are difficult to achieve with standard 3-terminal regulators.

Besides replacing fixed regulators, the 317K and 317T are useful in a wide variety of other applications. Since the regulator is "floating" and sees only the input-to-output differential voltage, supplies of several hundred volts can be regulated as long as the maximum input to output differential is not exceeded.

Also, they make especially simple adjustable switching regulators, programmable output regulators, or by connecting a fixed resistor between the adjustment and output, the 317K and 317T can be used as a precision current regulator. Supplies with electronic shutdown can be achieved by clamping the adjustment terminal to ground which programs the output to 1.2 V where most loads draw little current.

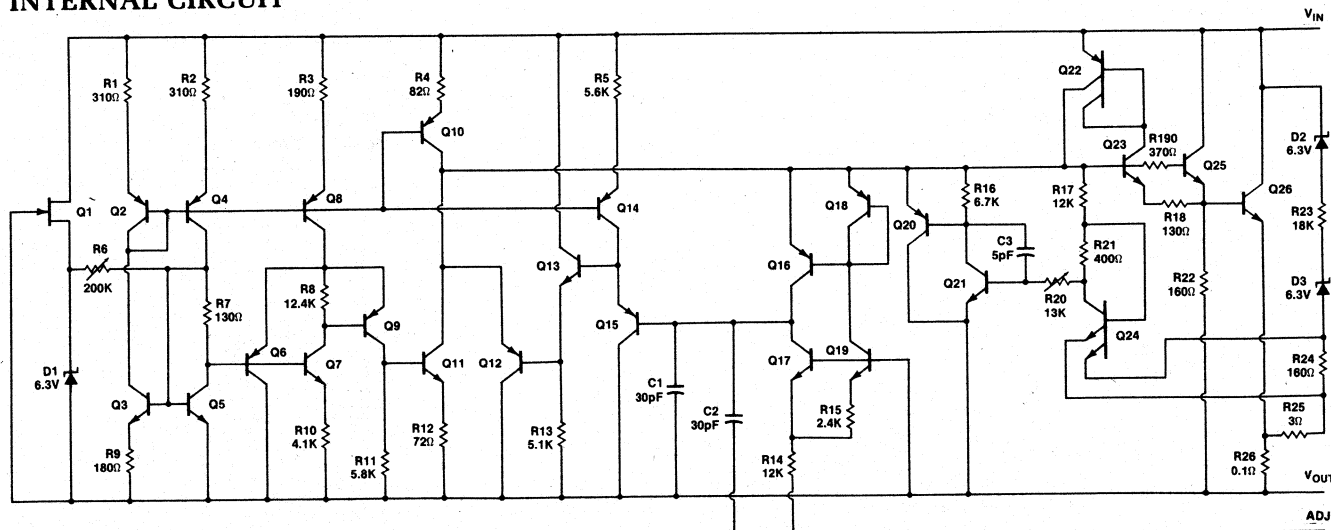
FEATURES

- Adjustable output down to 1.2V
- Guaranteed 1.5A output current
- Line regulation typically 0.01%/V
- Load regulation typically 0.1%
- Current limit constant with temperature
- 100% electrical burn-in
- Eliminates the need to stock many voltages
- Standard 3-lead transistor package
- 80 dB ripple rejection

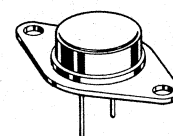
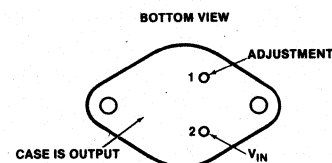
ABSOLUTE MAXIMUM RATINGS

Power Dissipation	Internally limited
Input-Output Voltage Differential	40V
Operating Junction Temperature Range	0 to +125°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

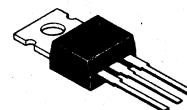
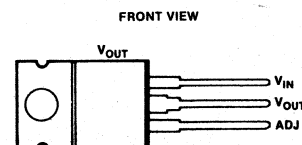
INTERNAL CIRCUIT



PIN CONNECTIONS



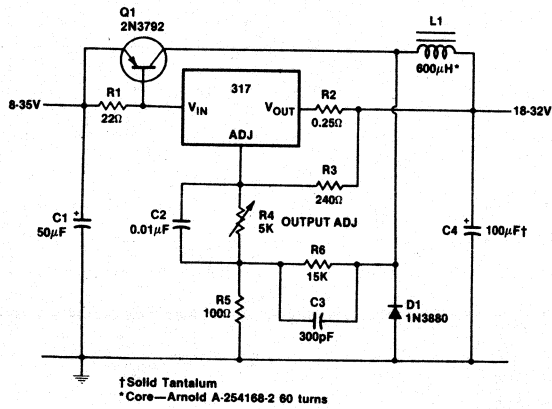
317K



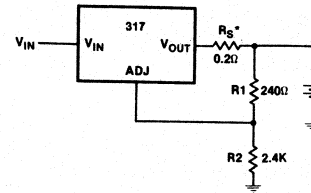
317T

317K 276-1777 **317T** 276-1778

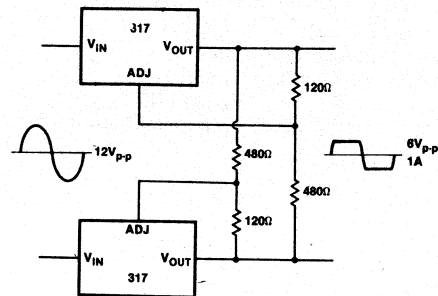
TYPICAL APPLICATIONS



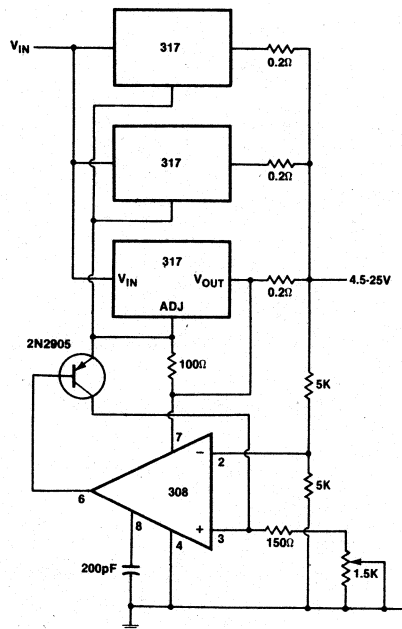
Low Cost 3A Switching Regulator



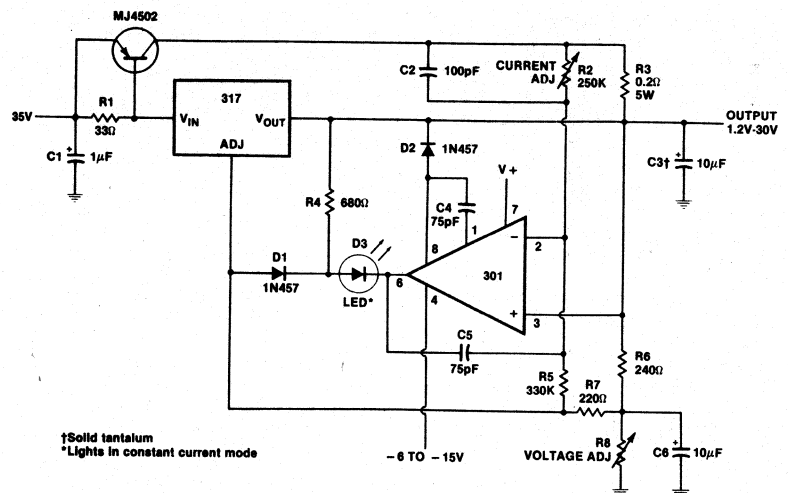
12V Battery Charger



AC Voltage Regulator



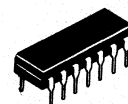
Adjustable 4A Regulator



5A Constant Voltage/Constant Current Regulator

723
276-1740

ADJUSTABLE VOLTAGE REGULATOR



GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

FEATURES

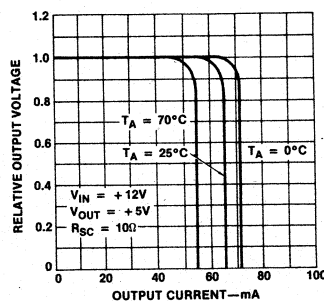
- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

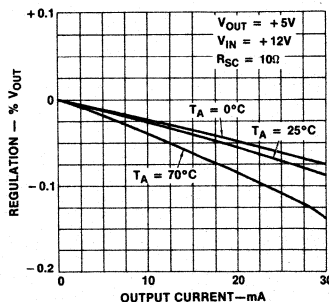
ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from V^+ to V^- (50 ms)	50V
Continuous Voltage from V^+ to V^-	40V
Input-Output Voltage Differential	40V
Maximum Amplifier Input Voltage (Either Input)	7.5V
Maximum Amplifier Input Voltage (Differential)	5V
Current from V_Z	25 mA
Current from V_{REF}	15 mA
Internal Power Dissipation Metal Can	800 mW
Cavity DIP	900 mW
Molded DIP	660 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range Metal Can	-65 to +150°C
DIP	-55 to +125°C
Lead Temperature (Soldering, 10 sec)	300°C

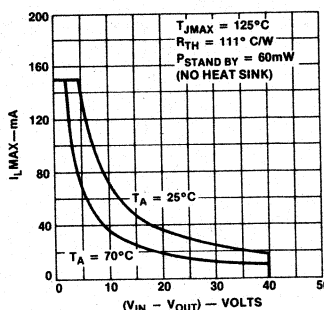
TYPICAL CHARACTERISTICS



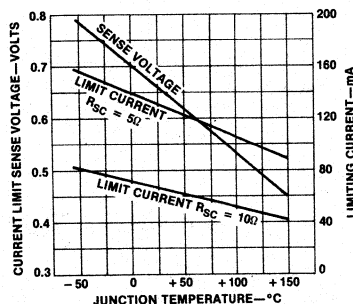
Relative Output Voltage
vs Output Current



Load Regulation vs
Output Current

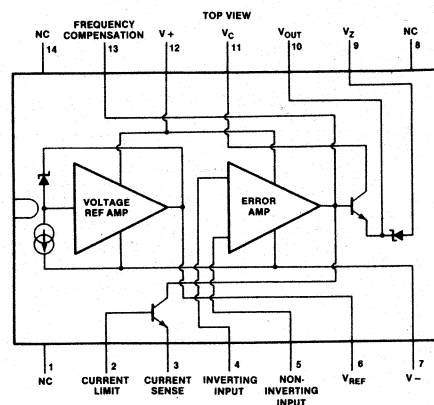


Maximum Load Current vs
Input-Output Voltage Differential

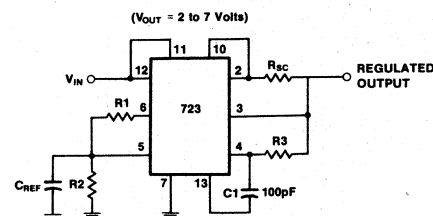


Current Limit Sense Voltage
vs Junction Temperature

PIN CONNECTION



TYPICAL APPLICATIONS

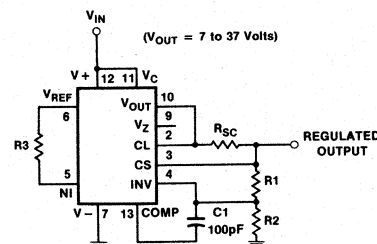


TYPICAL PERFORMANCE

Regulated Output Voltage 5V
Line Regulation ($\Delta V_{IN} = 3V$) 0.5mV
Load Regulation ($\Delta I_L = 50mA$) 1.5mV

Note: $R_3 = \frac{R_1 R_2}{R_1 + R_2}$ for minimum temperature drift.

Basic Low Voltage Regulator



TYPICAL PERFORMANCE

Regulated Output Voltage 15V
Line Regulation ($\Delta V_{IN} = 3V$) 1.5mV
Load Regulation ($\Delta I_L = 50mA$) 4.5mV

Note: $R_3 = \frac{R_1 R_2}{R_1 + R_2}$ for minimum temperature drift.

Basic High Voltage Regulator

5V VOLTAGE REGULATOR

12V VOLTAGE REGULATOR

15V VOLTAGE REGULATOR

7805
276-1770

7812
276-1771

7815
276-1772

GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

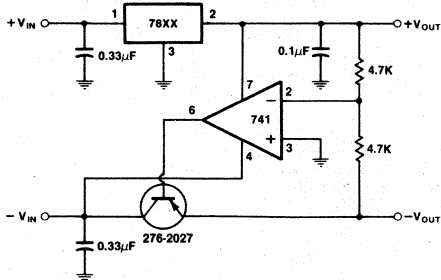
VOLTAGE RANGE

7805	5V
7812	12V
7815	15V

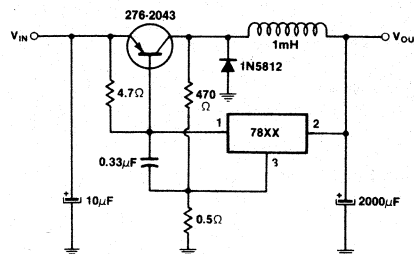
ABSOLUTE MAXIMUM RATINGS

Input Voltage	
(Output Voltage Options 5V through 18V)	35V
(Output Voltage Option 24V)	40V
Internal Power Dissipation	Internally Limited
Maximum Junction Temperature	150°C
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

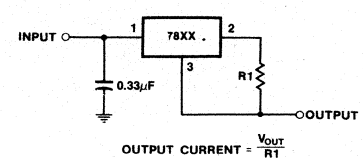
TYPICAL APPLICATIONS



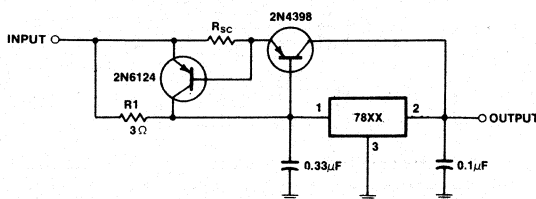
±Tracking Voltage Regulator



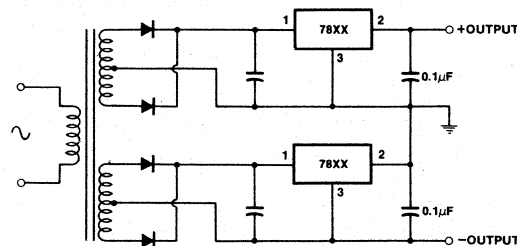
Switching Regulator



Current Regulator

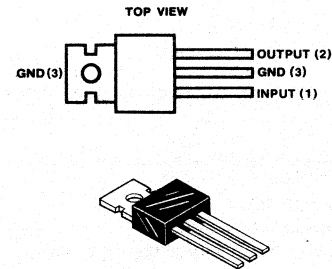


High Output Current, Short Circuit Protected



Positive and Negative Regulator

PIN CONNECTION



7905
276-1773

3-TERMINAL NEGATIVE REGULATOR

GENERAL DESCRIPTION

This regulator employs internal current limiting, safe area protection and thermal shutdown for protection against virtually all overload conditions.

Low ground pin current of the 7905 allows output voltage to be easily boosted above the preset value with a resistor divider. The low quiescent current drain of this device ensures good regulation in the voltage boosted mode.

FEATURES

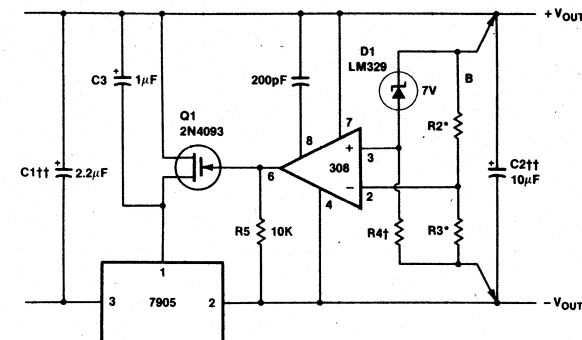
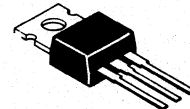
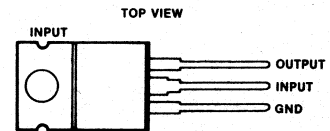
- Thermal, short circuit and safe area protection
- High ripple rejection
- 1.5A output current
- 4% preset output voltage

ABSOLUTE MAXIMUM RATINGS

Input Voltage ($V_o = 5V$)	− 35 V
Input/Output Differential ($V_o = 5V$)	25 V
Power Dissipation	Internally Limited
Operating Temperature Range	0 to +125°C
Storage Temperature Range	−65 to +150°C
Lead Temperature (Soldering, 10 seconds)	230°C

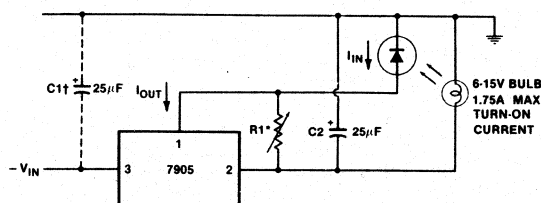
TYPICAL APPLICATIONS

PIN CONNECTION



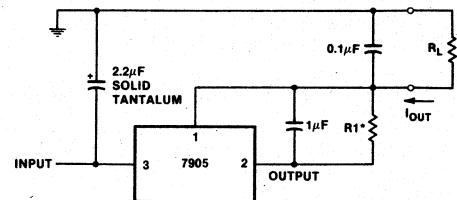
Load and line regulation < 0.01%, temperature stability < 0.2%
 † Determines zener current.
 †† Solid tantalum
 *Select resistors to set output voltage. 2ppm/°C tracking suggested.

High Stability 1 Amp Regulator



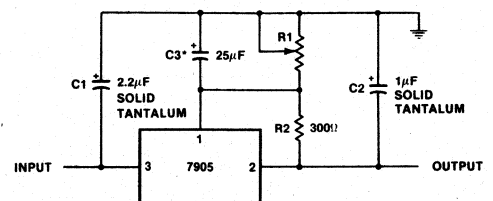
*Lamp brightness increases until $I_{IN} = I_{OUT} (= 1mA) + 5V/R1$.
 † Necessary only if raw supply filter capacitor is more than 2" from LM7905CT

Light Controller Using a Silicon Photo Cell



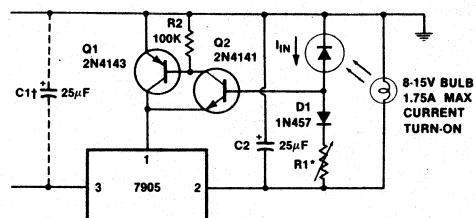
* $I_{OUT} = 1mA + 5V/R1$

Current Source



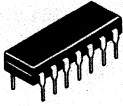
*Improves transient response and ripple rejection.
 Do not increase beyond 50µF.
 $V_{OUT} = V_{SET} \left(\frac{R1 + R2}{R2} \right)$

Variable Output



*Lamp brightness increases until $I_{IN} = 5V/R1$ (I_{IN} can be set as low as 1µA).
 † Necessary only if raw supply filter capacitor is more than 2" from LM7905CT.

Light Controller Using a Silicon Photo Cell



QUAD BI-FET OPERATIONAL AMPLIFIER

TL084CN
276-1714

GENERAL DESCRIPTION

The TL084 JFET-input operational amplifier is designed to offer better performance than any previously developed quad-operational amplifier. Each of these JFET-input operational amplifiers incorporates well-matched, high-voltage JFET and bipolar transistors in a monolithic integrated circuit. The devices feature high slew rates, low input bias and offset currents, and low offset voltage temperature coefficient.

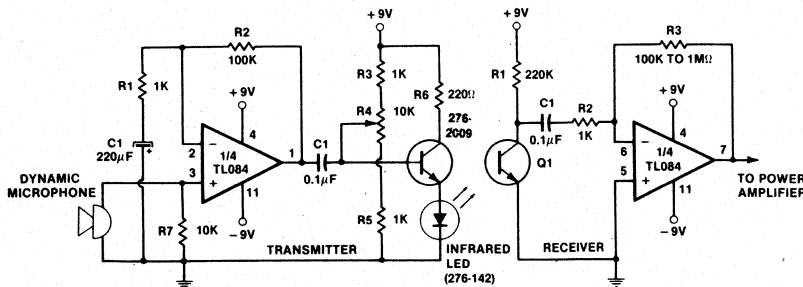
FEATURES

- Low power consumption
- Wide common-mode and differential voltage ranges
- Low input bias and offset currents
- Output short-circuit protection
- High input impedance—JFET-input stage
- Internal frequency compensation
- Latch-up-free operation
- High slew rate—13 V/ μ s Typ

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC}^{+}	18V
Supply Voltage, V_{CC}^{-}	-18V
Differential Input Voltage	$\pm 30V$
Input Voltage	$\pm 15V$
Duration of Output Short Circuit	Unlimited
Continuous Total Dissipation at (or Below)	
25°C Free-Air Temperature	680 mW
Operating Free-Air Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature 1/16 inch from Case for 10 Seconds	260°C

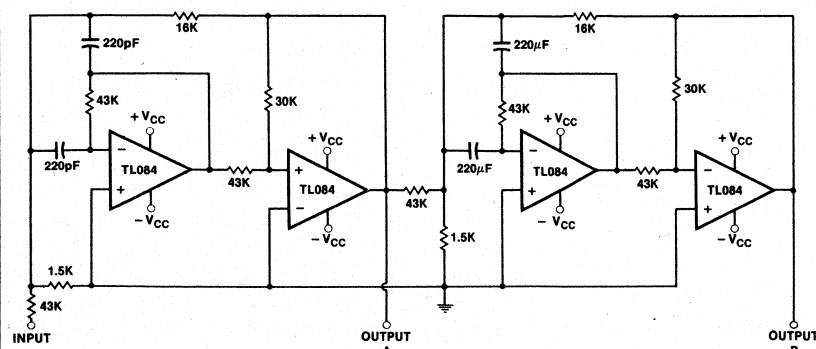
TYPICAL APPLICATIONS



Point the led at Q1 and adjust R4 until best voice quality is obtained. (R4 applies prebias to LED.) R6 limits maximum led current to a safe 40mA.

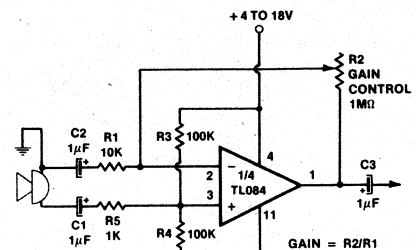
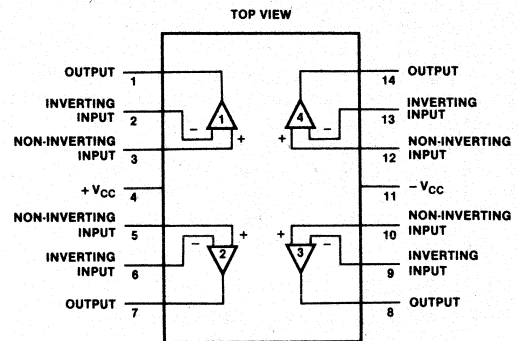
Use RADIO SHACK 276-130 phototransistor for Q1. Maximum range: Hundreds of feet at night with lenses at Q1 and LED. Power amp: See LM386

Infrared Voice Communicator



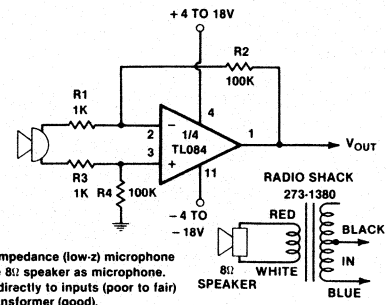
Positive-Feedback Bandpass Filter

PIN CONNECTION



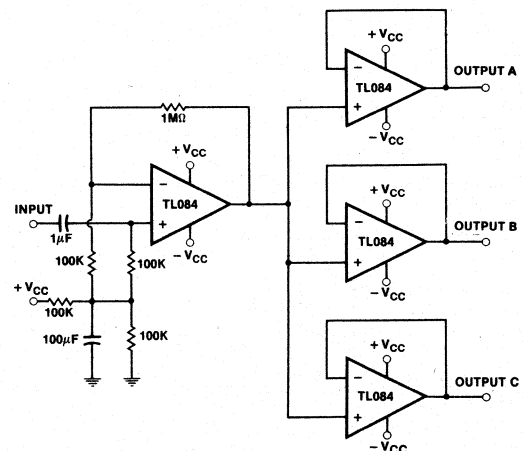
Note:
Use low to medium impedance dynamic mike
Single polarity power supply and AC coupling

Microphone Preamplifier



Use low impedance (low-z) microphone
Ok to use 8Ω speaker as microphone.
Connect directly to inputs (poor to fair)
or use transformer (good).

Low-Z Preamplifier

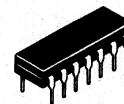


Audio Distribution Amplifier

324

276-1711

QUAD OP AMP



GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 V_{DC} power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional +15 V_{DC} power supplies.

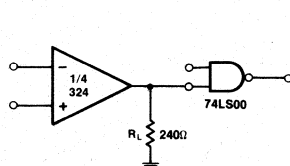
FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
Single supply 3 V_{DC} to 30 V_{DC}
or dual supplies ± 1.5 V_{DC} to ± 15 V_{DC}
- Very low supply current drain (800 μ A)—essentially independent of supply voltage (1 mW/op amp at +5 V_{DC})
- Low input biasing current 45 nA_{DC} (temperature compensated)
- Low input offset voltage 2 mV_{DC} and offset current 5 nA_{DC}
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 V_{DC} to V⁺ - 1.5 V_{DC}

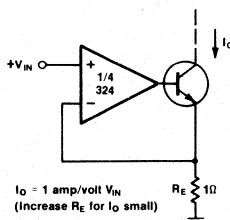
ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V ⁺	32 V _{DC} or ± 16 V _{DC}
Differential Input Voltage	32 V _{DC}
Input Voltage	-0.3 V _{DC} to +32 V _{DC}
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND (One Amplifier)	Continuous
V ⁺ \leq 15 V _{DC} and T _A = 25°C	
Input Current (V _{IN} < -0.3 V _{OL})	50 mA
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

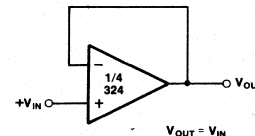
TYPICAL APPLICATIONS



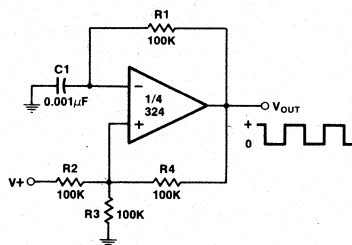
Driving TTL



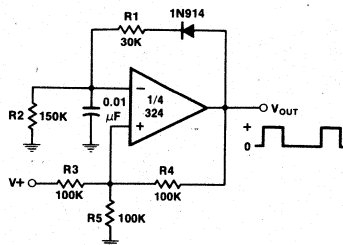
High Compliance Current Sink



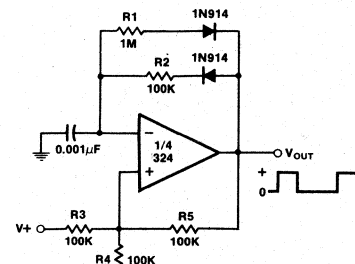
Voltage Follower



Squarewave Oscillator

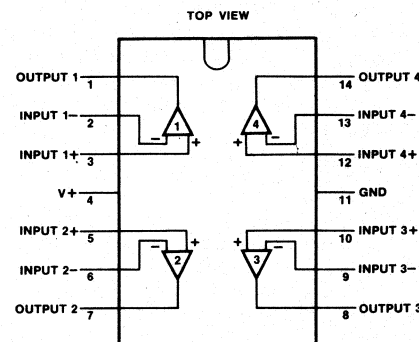


Pulse Generator

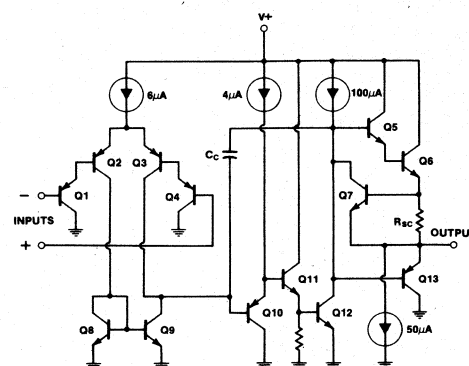


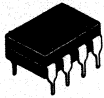
Pulse Generator

PIN CONNECTION



INTERNAL CIRCUIT (Each Amplifier)





WIDE BANDWIDTH DUAL JFET INPUT OPERATIONAL AMPLIFIER

353
276-1715

GENERAL DESCRIPTION

These devices are low cost, high speed, dual JFET input operational amplifiers with an internally trimmed input offset voltage (BI-FET II™ technology). They require low supply current yet maintain a large gain bandwidth product and fast slew rate. In addition, well matched high voltage JFET input devices provide very low input bias and offset currents.

These amplifiers may be used in applications such as high speed integrators, fast D/A converters, sample and hold circuits and many other circuits requiring low input offset voltage, low input bias current, high input impedance, high slew rate and wide bandwidth. The devices also exhibit low noise and offset voltage drift.

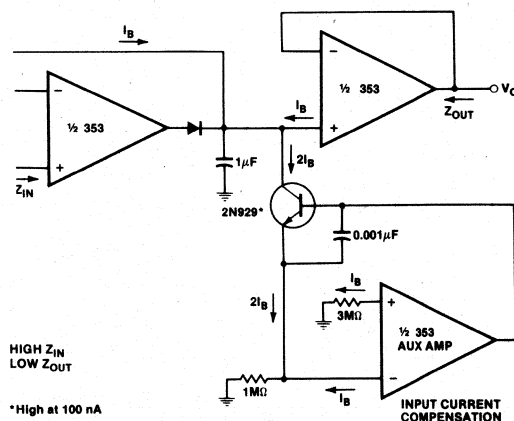
FEATURES

- Internally trimmed offset voltage = 2 mV
- Low input bias current = 50 pA
- Low input noise voltage = 16 nV/√Hz
- Low input noise current = 0.01 pA/√Hz
- Wide gain bandwidth = 4 MHz
- High slew rate = 13 V/μs
- Low supply current = 3.6 mA
- High input impedance = $10^{12}\Omega$
- Low total harmonic distortion $A_V = 10$, $R_L = 10k$, $V_O = 20$ Vp-p, BW = 20 Hz–20kHz = <0.02%
- Low 1/f noise corner = 50 Hz
- Fast settling time to 0.01% = 2 μs

ABSOLUTE MAXIMUM RATINGS

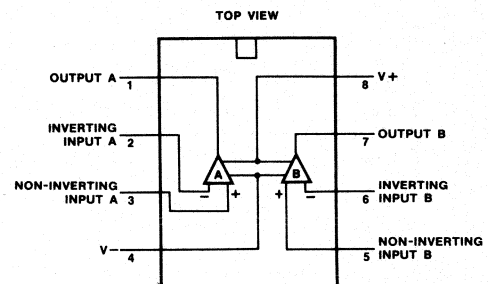
Supply Voltage.....	±18V
Power Dissipation.....	500 mW
Differential Input Voltage.....	±30V
Input Voltage Range.....	±15V
Output Short Circuit Duration.....	Continuous
$T_j(\text{MAX})$	115°C
Operating Temperature Range.....	0 to +70°C
Storage Temperature Range.....	-65 to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

TYPICAL APPLICATIONS

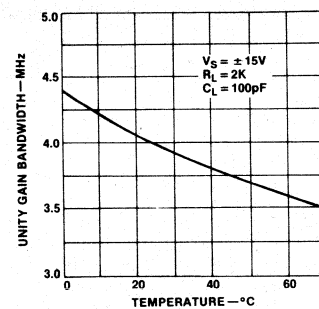


Low Drift Peak Detector

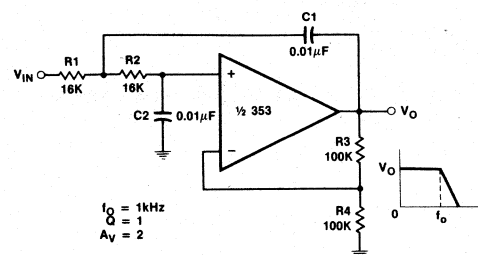
PIN CONNECTION



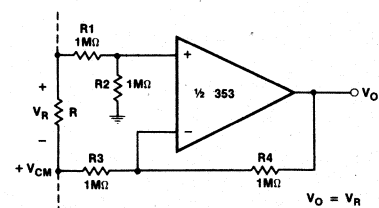
TYPICAL CHARACTERISTICS



Unity Gain Bandwidth vs Temperature



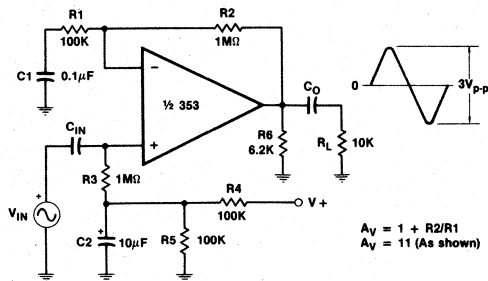
DC Coupled Low-Pass RC Active Filter



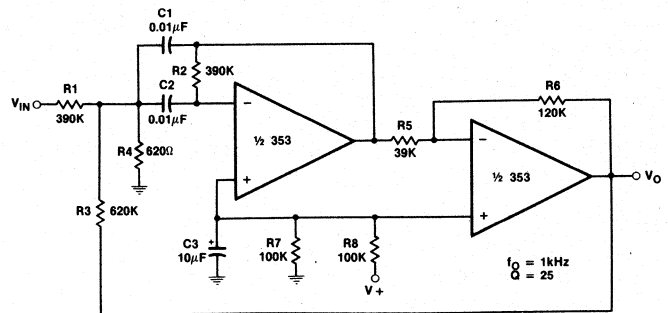
Ground Referencing A Differential Input Signal

353 276-1715

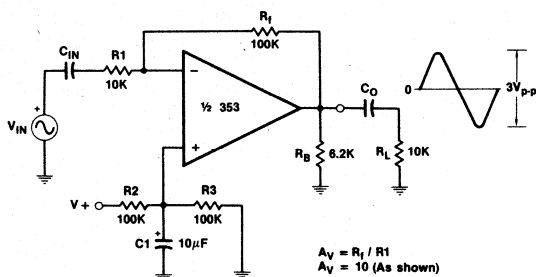
TYPICAL APPLICATIONS (Cont'd)



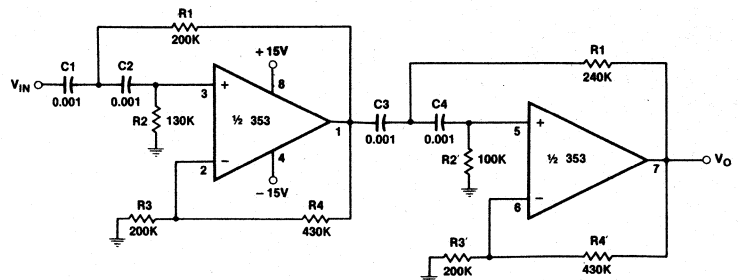
AC Coupled Non-Inverting Amplifier



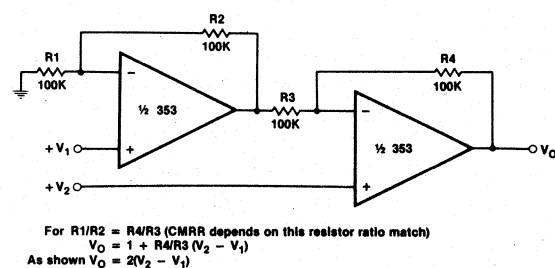
Bandpass Active Filter



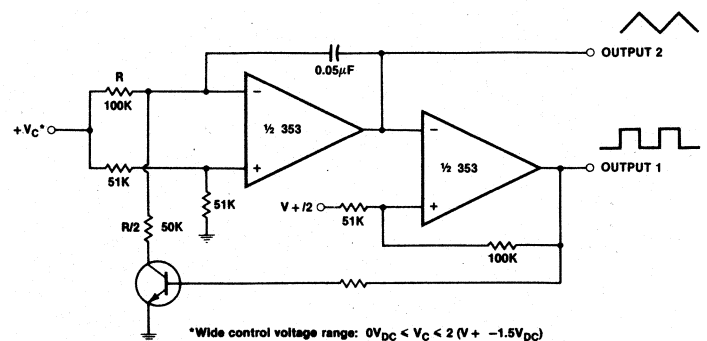
AC Coupled Inverting Amplifier



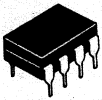
Fourth Order High Pass Butterworth Filter



High Input Z, DC Differential Amplifier



Voltage Controlled Oscillator (VCO)



OPERATIONAL AMPLIFIER

741
276-007

GENERAL DESCRIPTION

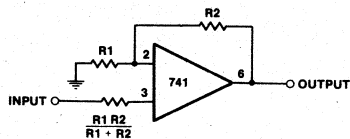
The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

ABSOLUTE MAXIMUM RATINGS

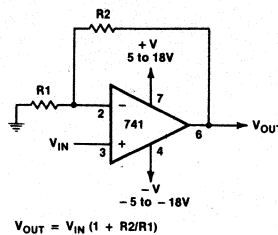
Supply Voltage.....	±16V
Power Dissipation.....	500 mW
Differential Input Voltage.....	±30V
Input Voltage.....	±15V
Output Short Circuit Duration.....	Indefinite
Operating Temperature Range.....	0 to +70°C
Storage Temperature Range.....	-65 to +150°C
Lead Temperature (Soldering, 10 seconds).....	300°C

TYPICAL APPLICATIONS



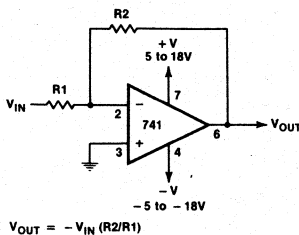
GAIN	R1	R2	BW	R _{IN}
10	1K	9K	100kHz	400MΩ
100	100Ω	9.9K	10kHz	280MΩ
1000	100Ω	99.9K	1kHz	80MΩ

Non-Inverting Amplifier



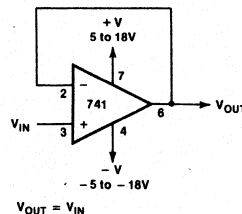
$$V_{OUT} = V_{IN} (1 + R2/R1)$$

Non-Inverting Amplifier



$$V_{OUT} = -V_{IN} (R2/R1)$$

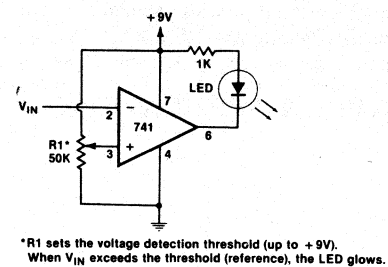
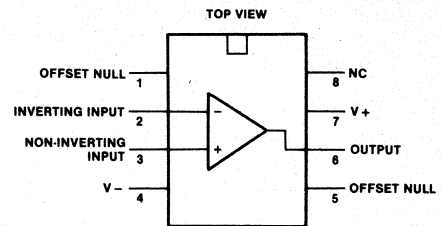
Inverting Amplifier



$$V_{OUT} = V_{IN}$$

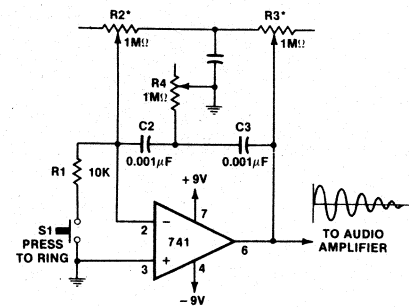
Unity Gain Follower

PIN CONNECTION



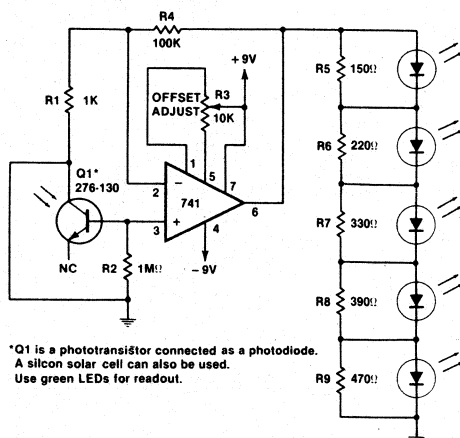
*R1 sets the voltage detection threshold (up to +9V). When V_{IN} exceeds the threshold (reference), the LED glows.

Level Detector



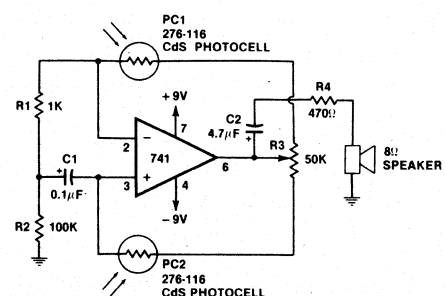
*Adjust R3 to just below oscillation point. Adjust R2 and R3 for sounds such as bell, drum, tinkling, etc.

Electronic Bell



*Q1 is a phototransistor connected as a photodiode. A silicon solar cell can also be used. Use green LEDs for readout.

Bargraph Light Meter

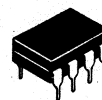


Light on PC1 decreases tone frequency
Light on PC2 increases tone frequency

Audible Light Sensor

1458
276-038

DUAL OPERATIONAL AMPLIFIER



GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent.

FEATURES

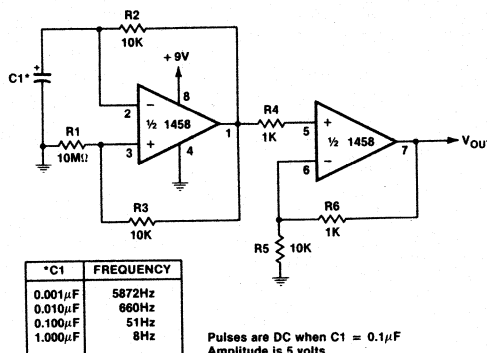
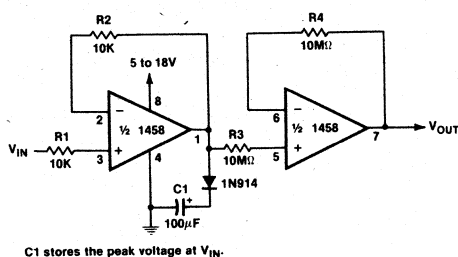
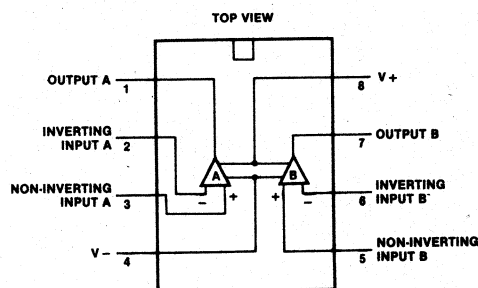
- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

ABSOLUTE MAXIMUM RATINGS

Supply Voltage.....	$\pm 16V$
Power Dissipation.....	400 mW
Differential Input Voltage.....	$\pm 30V$
Input Voltage.....	$\pm 15V$
Output Short-Circuit Duration.....	Indefinite
Operating Temperature Range.....	0 to $+70^{\circ}C$
Storage Temperature Range.....	-65 to $+150^{\circ}C$
Lead Temperature (Soldering, 10 sec).....	$300^{\circ}C$

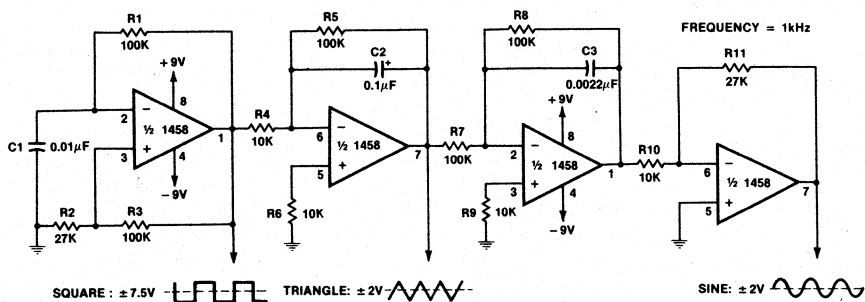
TYPICAL APPLICATIONS

PIN CONNECTION

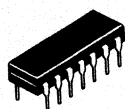


Peak Detector

Pulse Generator



Function Generator



QUAD OPERATIONAL NORTON AMPLIFIER

3900
276-1713

GENERAL DESCRIPTION

The 3900 series consists of four independent, dual input, internally compensated amplifiers which were designed specifically to operate off of a single power supply voltage and to provide a large output voltage swing. These amplifiers make use of a current mirror to achieve the non-inverting input function. Application areas include: ac amplifiers, RC active filters, low frequency triangle, squarewave and pulse waveform generation circuits, tachometers and low speed, high voltage digital logic gates.

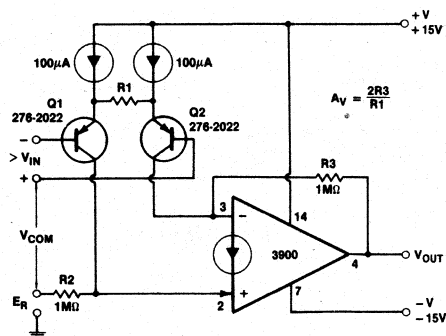
FEATURES

- Wide single supply voltage 4 V_{DC} to 36 V_{DC} range or dual supplies ± 2 V_{DC} to ± 18 V_{DC}
- Supply current drain independent of supply voltage
- Low input biasing current 30 nA
- High open-loop gain 70 dB
- Wide bandwidth 2.5 MHz (Unity Gain)
- Large output voltage swing (V₊ - 1) V_{p-p}
- Internally frequency compensated for unity gain
- Output short-circuit protection

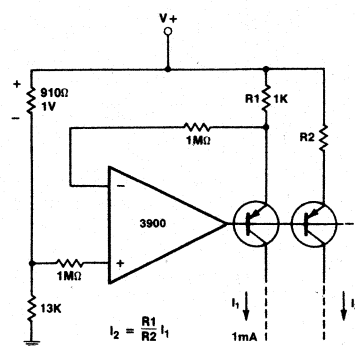
ABSOLUTE MAXIMUM RATINGS

Supply Voltage (Wide Range, Single Supply)	32 V _{DC}
Supply Voltage (Wide Range, Dual Supply)	± 16 V _{DC}
Power Dissipation (T _A = 25°C)	
Flat Pack	570 mW
Input Currents, I _{IN} ⁺ or I _{IN} ⁻	20 mA _{DC}
Output Short-Circuit Duration—One Amplifier	Continuous
T _A = 25°C (See Application Hints)	
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

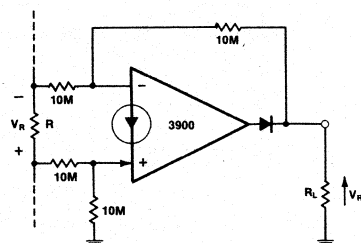
TYPICAL APPLICATIONS



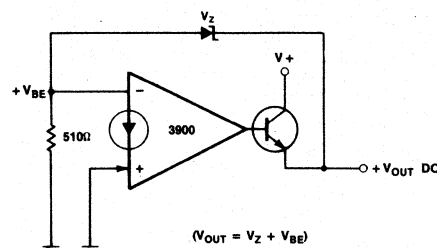
Basic Instrumentation Amplifier



Fixed Current Sources



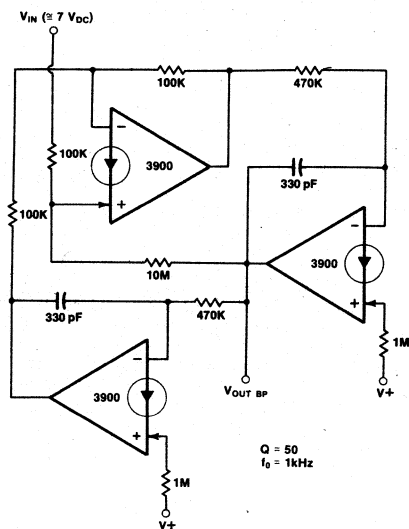
Ground-Referencing a
Differential Input Signal



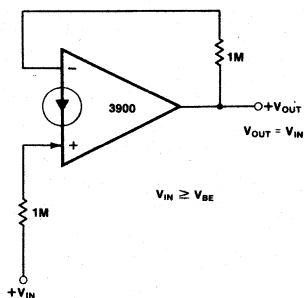
Voltage Regulator

3900 276-1713

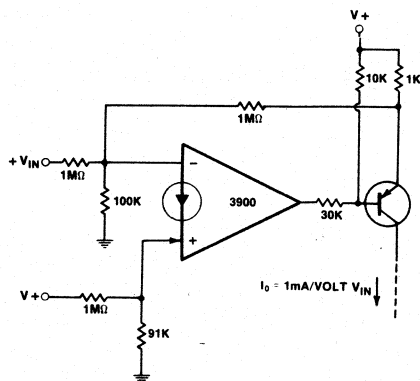
TYPICAL APPLICATIONS (Con't)



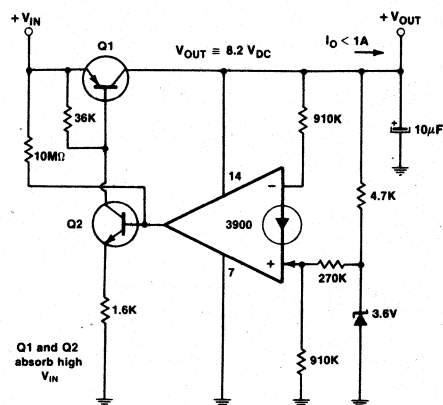
Bi-Quad Active Filter
(2nd Degree State-Variable Network)



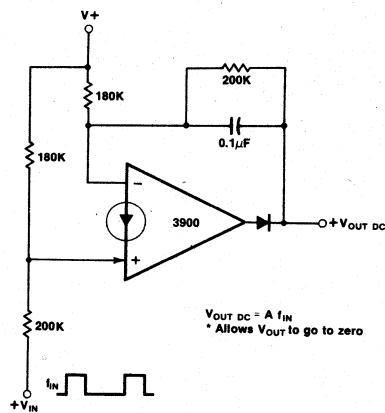
Buffer Amplifier



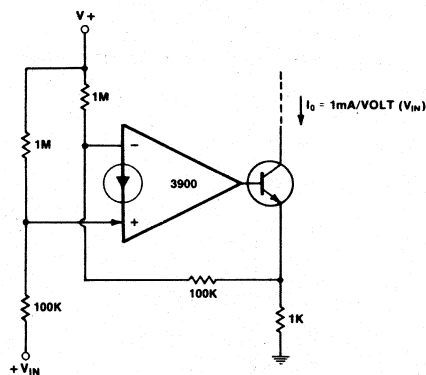
Voltage Controlled Current Source
(Transconductance Amplifier)



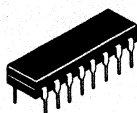
High V_{IN} , Low $(V_{IN} - V_{OUT})$ Self Regulator



Tachometer



Voltage-Controlled Current Sink
(Transconductance Amplifier)



PROGRAMMABLE TIMER/COUNTER

uA2240C

276-1735

GENERAL DESCRIPTION

These circuits consist of a time-base oscillator, an eight-bit counter, a control flip-flop, and a voltage regulator. The frequency of the time-base oscillator is set by the time constant of an external resistor and capacitor at pin 13 and can be synchronized or modulated by signals applied to the modulation input. The output of the time-base section is applied directly to the input of the counter section and also appears at pin 14 (time base). The time-base pin may be used to monitor the frequency of the oscillator, to provide an output pulse to other circuitry, or (with the time-base section disabled) to drive the counter input from an external source. The counter input is activated on a negative-going transition. The reset input stops the time-base oscillator and sets each binary output, Q0 through Q7, and the time-base output to a TTL high level. After resetting, the trigger input starts the oscillator and all Q outputs go low. Once triggered, the uA2240 will ignore any signals at the trigger input until it is reset.

This timer/counter may be operated in the free-running mode or with output-signal feedback to the reset input for automatic reset. Two or more binary outputs may be connected together to generate complex pulse patterns, or each output may be used separately to provide eight output frequencies. Using two circuits in cascade can provide precise time delays of up to three years.

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V_{CC}	18 V
Output Voltage: Q0 thru Q7	18 V
Output Current: Q0 thru Q7	10 mA
Regulator Output Current	-5 mA
Continuous Dissipation at (or below) 25°C Free-Air	
Temperature	650 mW
Operating Free-Air Temperature Range	0 to 70°C

RECOMMENDED OPERATING CONDITIONS

Supply Voltage	15 V
Timing Resistor	10 MΩ
Timing Capacitor	1000 μF
Counter Input Frequency (Pin 14)	1.5 MHz
Pull-Up Resistor, Time-Base Output	20 KΩ
Trigger and Reset Input Pulse Voltage	2 to 3 V
Trigger and Reset Input Pulse Width	2 μs
External Clock Input Pulse Voltage	3 V
External Clock Input Pulse Width	1 μs

TEST CIRCUITS

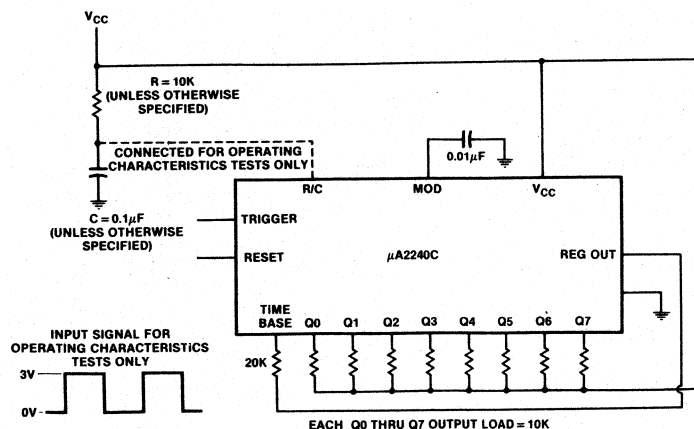


Figure 1—General Test Circuit

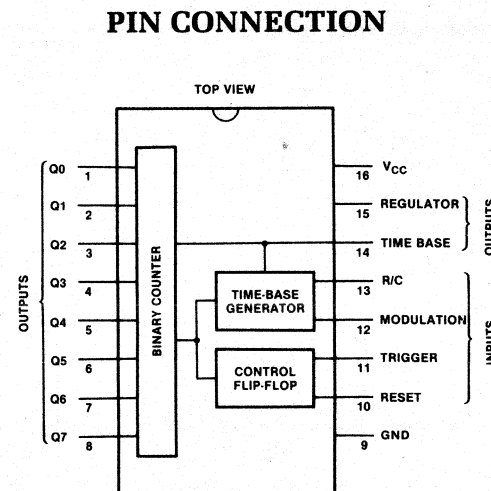


Figure 2—Counter Test Circuit

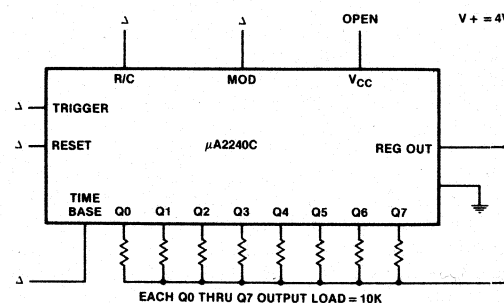
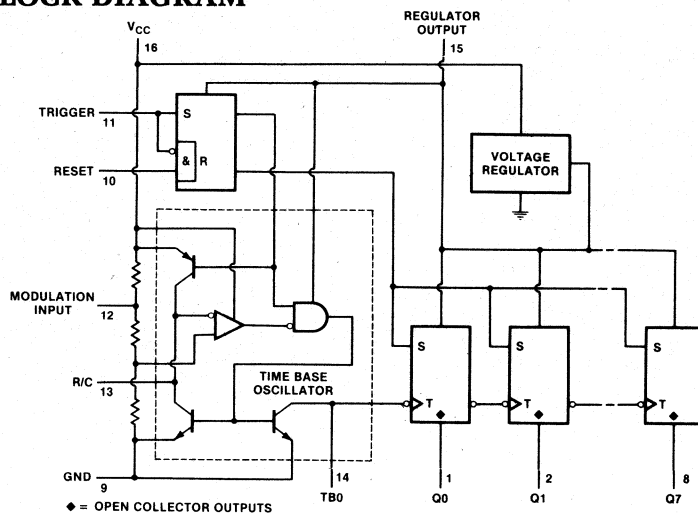


Figure 3—Reduced-Power Test Circuit (Time Base Disabled)

uA2240C 276-1735

BLOCK DIAGRAM



TYPICAL APPLICATIONS

These are voltage waveforms for typical operation of the uA2240. If both reset and trigger inputs are low during power-up, the timer/counter will be in a reset state with all binary (Q) outputs high and the oscillator stopped. In this state, a high level on the trigger input starts the time-base oscillator. The initial negative-going pulse from the oscillator sets the Q outputs to low logic levels at the beginning of the first time-base period. The uA2240 will ignore any further signals at the trigger input until after a reset signal is applied to the reset input. With the trigger input low, a high level at the reset input will set Q outputs high and stop the time-base oscillator. If the reset signal occurs while the trigger input is high, the reset is ignored. If the reset input remains high when the trigger input goes low, the uA2240 will reset.

In monostable application of the uA2240 one or more of the binary outputs will be connected to the reset terminal as shown in Figure 6. The binary outputs are open-collector stages that can be connected together to a common pull-up resistor to provide a "wired-OR" function. The combined output will be low as long as any one of the outputs is low. This type of arrangement can be used for time delays that are integer multiples of the time-base period. For example, if Q5 ($2^5 = 32$) only is connected to the reset input, every trigger pulse will generate a 32-period active-low output. Similarly, if Q0, Q4, and Q5 are connected to reset, each trigger pulse creates a 49-period delay.

In astable operation, the uA2240 will free-run from the time it is triggered until it receives an external reset signal.

The period of the time-base oscillator is equal to the RC time constant of an external resistor and capacitor connected as shown in Figure 6 when the modulation input is open (approximately 3.5 volts internal, see Figure 4). Under conditions of high supply voltage ($V_{CC} > 7$ V) and low value of timing capacitor ($C < 0.1 \mu\text{F}$), the pulse width of the time-base oscillator may be too short to properly trigger the counters. This situation can be corrected by adding a 300-pico-farad capacitor between the time-base output and ground. The time-base output (TBO) is an open-collector output that requires a 20-K Ω pull-up resistor to Pin 15 for proper operation. The time-base pin may also be used as an input to the counters for an external time-base or as an active-low inhibit input to interrupt counting without resetting.

The modulation input varies the ratio of the time-base period to the RC time constant as a function of the dc bias voltage (see Figure 4). It can also be used to synchronize the timer/counter to an external clock or sync signal.

The regulator output is used internally to drive the binary counters and the control logic. This terminal can also be used to supply voltage to additional uA2240 devices to minimize power dissipation when several timer circuits are cascaded. For circuit operation with an external clock, the regulator output can be used as the V_{CC} input terminal to power down the internal time base and reduce power dissipation. When supply voltages less than 4.5 volts are used with the internal time base, pin 15 should be shorted to pin 16.

TYPICAL CHARACTERISTICS

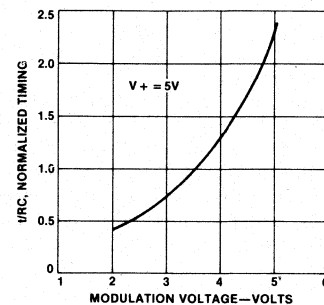


Figure 4—
Normalized Time-Base Period
Modulation Input Voltage

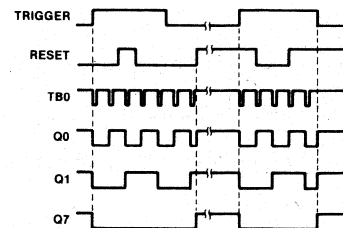


Figure 5—Timing Diagram
of Output Waveforms

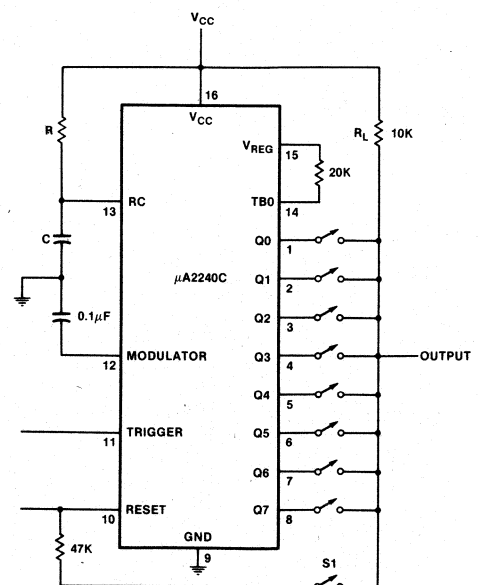
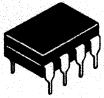


Figure 6—Basic Connections
for Timing Applications



TIMER

555
276-1723

GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

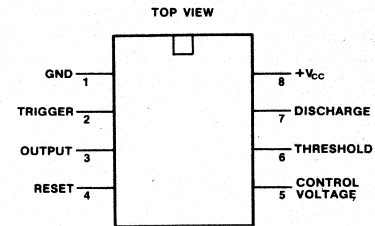
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

Supply Voltage +16V
Power Dissipation 600 mW
Operating Temperature Range 0 to +70°C
Storage Temperature Range -65 to +150°C
Lead Temperature (Soldering, 10 seconds) 300°C

PIN CONNECTION

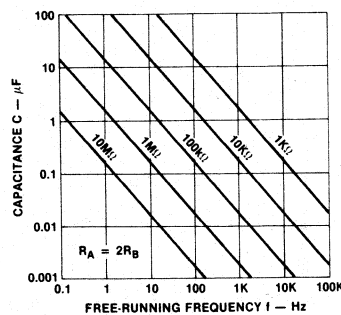


TRUTH TABLE

PIN 2 TRIGGER	PIN 6 THRESHOLD	PIN 4 RESET	PIN 3 OUTPUT
H	X	H	L
L	X	H	H
H	L	H	L
X	X	L	L

X = Don't Care L = Low Level H = High Level

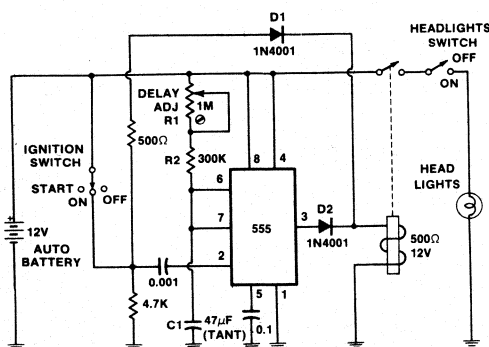
TYPICAL CHARACTERISTICS



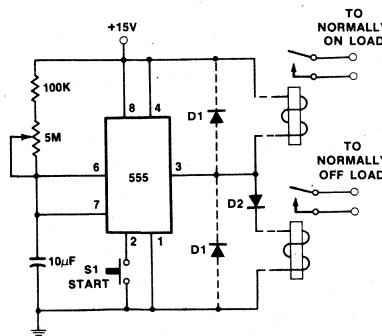
Capacitance vs
Free-Running Frequency

The charge time (output high) is given by: $t_1 = 0.693 (R_A + R_B) C$
The discharge time (output low) is given by: $t_2 = 0.693 (R_B) C$
Thus the total period is: $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
The frequency of oscillation is: $f = 1/T = 1.44 / (R_A + 2R_B) C$

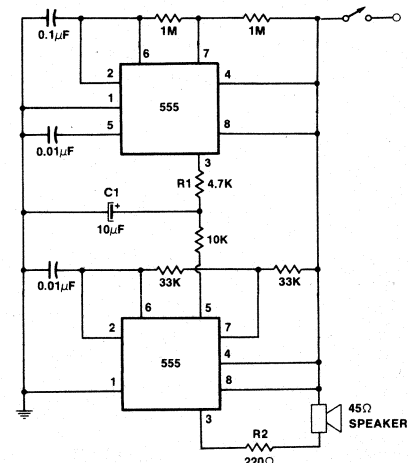
TYPICAL APPLICATIONS



Automatic Headlight Turn-Off Circuit



Relay Timer

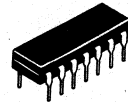


Warble Alarm Circuit

LINEAR (TIMER)

556
276-1728

DUAL TIMER



GENERAL DESCRIPTION

The 556 dual timing circuit is a highly stable controller capable of producing accurate time delays or oscillation. The 556 is a dual 555. Timing is provided by an external resistor and capacitor for each timing function. The two timers operate independently of each other sharing only V_{CC} and ground. The circuits may be triggered and reset on falling waveforms. The output structures may sink or source 200 mA.

FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Replaces two 555 timers
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

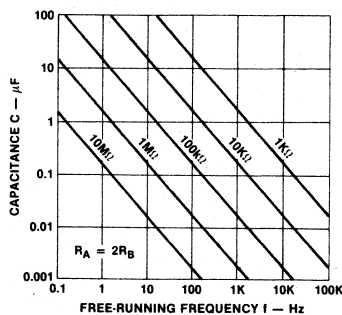
APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

ABSOLUTE MAXIMUM RATINGS

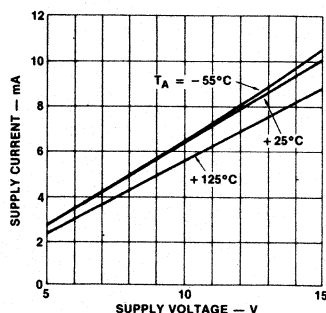
Supply Voltage	+16V
Power Dissipation	600 mW
Operating Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

TYPICAL CHARACTERISTICS

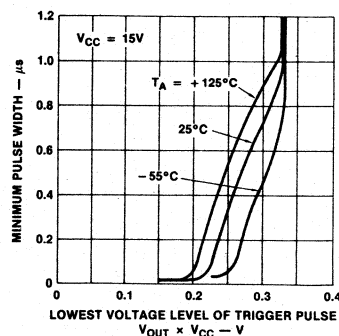


The charge time (output high) is given by:
 $t_1 = 0.693 (R_A + R_B) C$
 The discharge time (output low) is given by:
 $t_2 = 0.693 (R_B) C$
 Thus the total period is:
 $T = t_1 + t_2 = 0.693 (R_A + 2R_B) C$
 The frequency of oscillation is:
 $f = 1/T = 1.44 / (R_A + 2R_B) C$

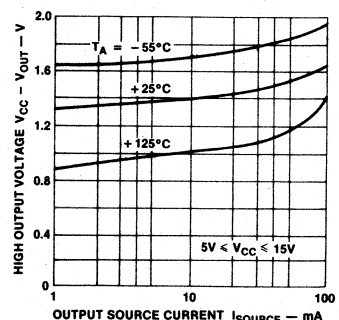
Capacitance vs
Free-Running Frequency



Supply Current
vs Supply Voltage

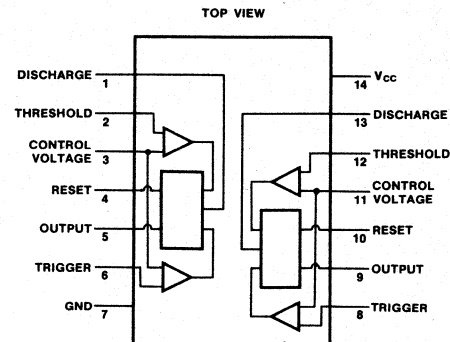


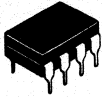
Minimum Pulse Width vs
Lowest Voltage Level of Trigger Pulse



High Output Voltage vs
Output Source Current

PIN CONNECTION





LOW POWER GENERAL PURPOSE TIMER

7555
276-1743

GENERAL DESCRIPTION

The 7555 is a CMOS RC timer providing significantly improved performance over standard timers. Improved parameters include the low supply current, wide operating supply voltage range, low THRESHOLD, TRIGGER and RESET currents, no crowbaring of the supply current during any output transition, higher frequency performance and no requirement to decouple CONTROL VOLTAGE for stable operation.

Specifically, the 7555 is a stable controller capable of producing accurate time delays or frequency. In the time delay one shot mode of operation for each circuit, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and the duty cycle are both accurately controlled by two external resistors and one capacitor.

The circuits are triggered and reset on falling (negative) waveforms, and the output inverter can source or sink large currents to drive TTL loads or provide minimal offsets to drive CMOS loads.

FEATURES

- Low Supply Current—80 μ A typical
- Extremely low trigger, threshold and reset currents—20pA typical
- High speed operation—500 kHz guaranteed
- Wide operation supply voltage range guaranteed 2 to 18 volts
- Well behaved reset function—no crowbaring of supply during output transition.
- Can be used with higher impedance timing elements than regular 555 for longer RC time constants.
- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- High output source/sink driver-can drive TTL/CMOS
- Typical temperature stability of 0.005% per $^{\circ}$ C at 25 $^{\circ}$ C
- Normally on and normally off output with very low offsets
- Completely static protected—no special handling considerations.

APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Missing pulse detector

ABSOLUTE MAXIMUM RATINGS

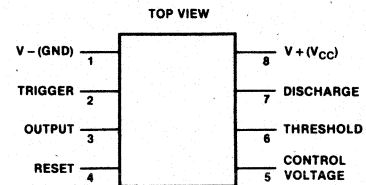
Supply Voltage, $V^+ - V^-$ +18V
 Input Voltage, Trigger, Threshold, Reset,
 Control Voltage (see note) $\leq V^+ + 0.3V$ to $\geq V^- - 0.3V$
 Output Current 100 mA
 Power Dissipation 200 mW
 Operating Temperature Range -20 to +70 $^{\circ}$ C
 Storage Temperature Range -65 to +150 $^{\circ}$ C
 Lead Temperature (Soldering, 60 Seconds) +300 $^{\circ}$ C

Note: Due to the SCR structure inherent in the CMOS process used to fabricate these devices, connecting any terminal to a voltage greater than $V^+ + 0.3V$ or less than $V^- - 0.3V$ may cause destructive latchup. For this reason it is recommended that no inputs from external sources not operating from the same power supply be applied to the device before its power supply is established. In multiple systems, the supply of the 7555 must be turned on first.

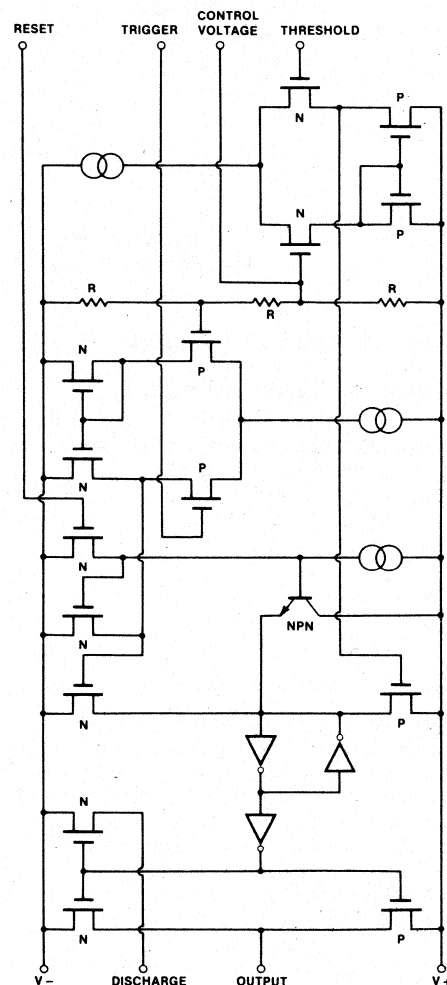
TRUTH TABLE

THRESHOLD VOLTAGE	TRIGGER VOLTAGE	RESET	OUTPUT	DISCHARGE SWITCH
DON'T CARE	DON'T CARE	LOW	LOW	ON
$>2/3(V^+ - V^-)$	$>2/3(V^+ - V^-)$	HIGH	LOW	ON
$1/3 < V_{TH} < 2/3$	$1/3 < V_{TH} < 2/3$	HIGH	?	?
$<1/3(V^+ - V^-)$	$<1/3(V^+ - V^-)$	HIGH	HIGH	OFF

PIN CONNECTION

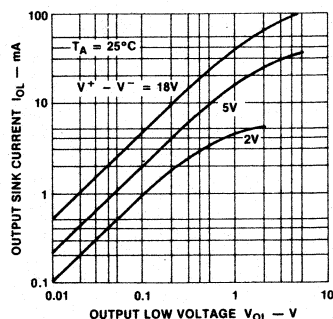


INTERNAL CIRCUIT

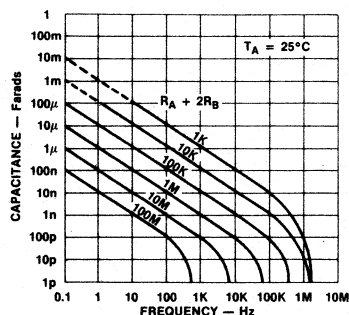


7555 276-1743

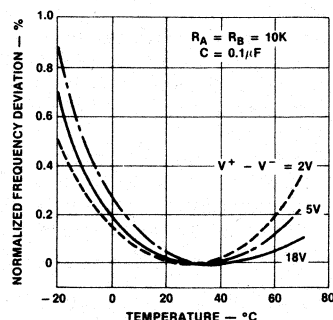
TYPICAL CHARACTERISTICS



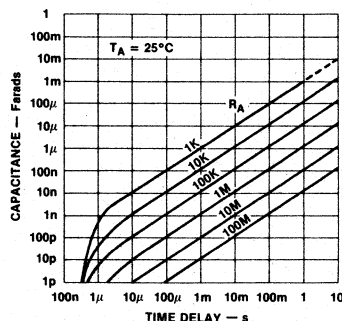
Output Sink Current
vs Output Low Voltage



Capacitance vs
Free-Running Frequency



Normalized Frequency Deviation
vs Temperature



Capacitance vs
Time Delay

TYPICAL APPLICATIONS

Astable Operation (Figure 1)

The circuit can be connected to trigger itself and free run as a multivibrator. The external capacitor charges through R_A and R_B and discharges through R_B only. Thus the duty cycle may be precisely set by the ratio of these two resistors. In this mode of operation, the capacitor charges and discharges between $1/3$ and $2/3$ ($V^+ - V^-$). As in the triggered mode, the charge and discharge times, and therefore the frequency, are essentially independent of the supply voltage.

The frequency of oscillation is given by:
$$f = \frac{1}{t} = \frac{1.46}{(R_A + 2R_B)C}$$

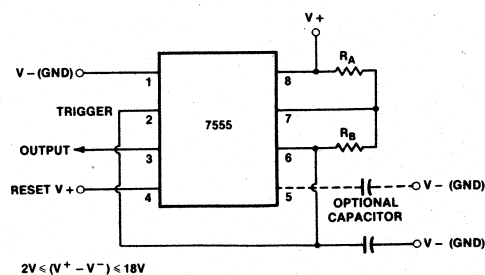


Figure 1—Astable Operation

Monostable Operation (Figure 2)

In this mode of operation, the timer functions as a one-shot. Initially the external capacitor (C) is held discharged by a transistor inside the timer. Upon application of a negative trigger pulse to pin 2, the flip flop is set which releases the short circuit across the external capacitor and drives the output high. The voltage across the capacitor now increases exponentially with a time constant $\tau = R_A C$. When the voltage across the capacitor equals $2/3$ ($V^+ - V^-$), the comparator resets the flip flop, which in turn discharges the capacitor rapidly and also drives the output to its low state.

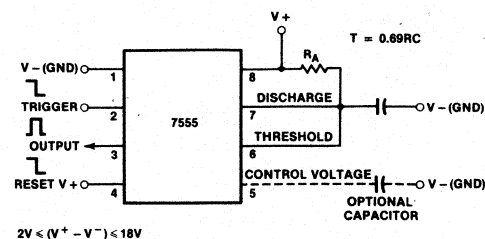
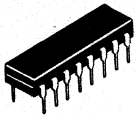


Figure 2—Monostable Operation



PROGRAMMABLE ANALOG COMPANDOR

NE572

276-1781

GENERAL DESCRIPTION

The NE572 is a dual channel, high performance gain control circuit in which either channel may be used for dynamic range compression or expansion. Each channel has a full wave rectifier to detect the average value of input signal; a linearized, temperature compensated variable gain cell (ΔG) and a dynamic time constant buffer. The buffer permits independent control of dynamic attack and recovery time with minimum external components and improved low frequency gain control ripple distortion over previous compandors.

FEATURES

- Independent control of attack and recovery time.
- Improved low frequency gain control ripple
- Complementary gain compression and expansion with external Op Amp
- Wide dynamic range — greater than 110 dB
- Temperature compensated gain control
- Low distortion gain cell
- Low noise — 6 μ V typical
- Wide supply voltage range — 6 to 22 V
- System level adjustable with external components.

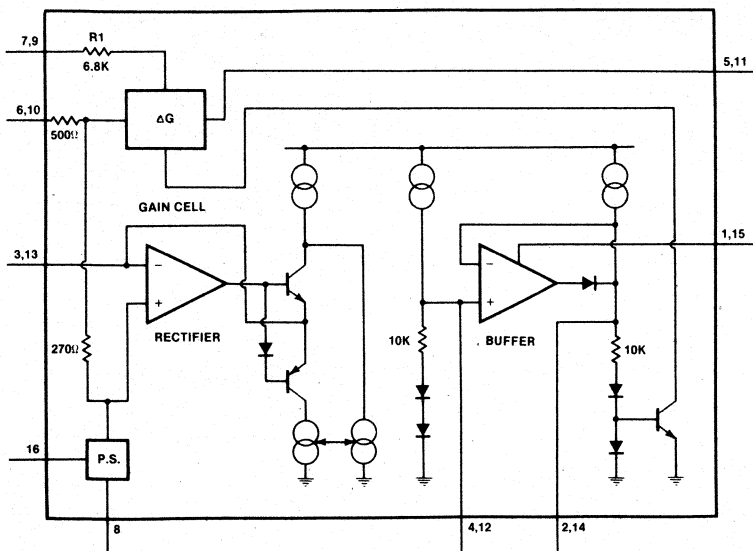
APPLICATIONS

- Dynamic noise reduction system
- Voltage control amplifier
- Stereo expander
- Automatic level control
- High level limiter
- Low level noise gate
- State variable filter

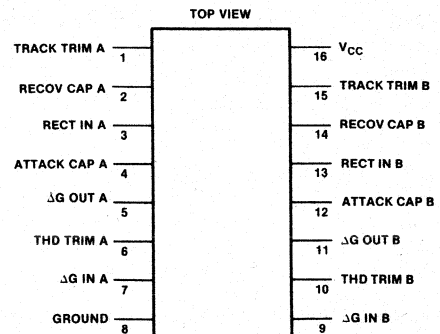
ABSOLUTE MAXIMUM RATINGS

Supply voltage 22 V
 Operating temperature range 0 to 70°C
 Power dissipation 500 mW

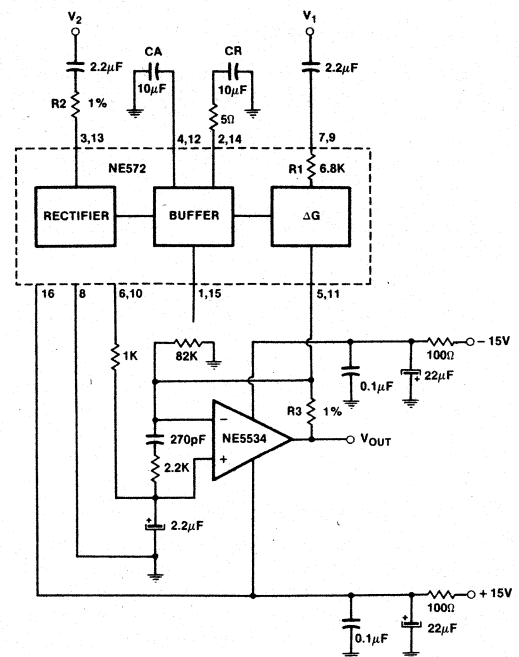
BLOCK DIAGRAM



PIN CONNECTION



TEST CIRCUIT



Test Circuit

NE572 276-1781

TYPICAL APPLICATIONS

Basic Expander

Figure 1 shows an application of the circuit as a simple expander. The gain expression of the system is given by

$$\frac{V_{OUT}}{V_{IN}} = \frac{2}{I_1} \times \frac{R_3 \times V_{IN} (AVG)}{R_2 \times R_1} - (1)$$

Both the Resistor R1 and R2 are tied to internal summing nodes. R1 is a 6.8 K internal resistor. The maximum input current into the gain cell can be as large as 140 μ A. This corresponds to a voltage level of 140 μ A \times 6.8 K = 952 mV peak. The input peak current into the rectifier is limited to 300 μ A by the internal bias system. Note that the value of R1 can be increased to accommodate higher input level. R2 and R3 are external resistors. It is easy to adjust the ratio of R3/R2 for desirable system voltage and current levels. A small R2 results in higher gain control current and smaller static and dynamic tracking error. However, an impedance buffer A1 may be necessary if the input is voltage drive with large source impedance.

The gain cell output current feeds the summing node of the external OPA A2. R3 and A2 convert the gain cell output current to the output voltage. In high performance applications, A2 has to be low noise, high speed and wide band so that the high performance output of the gain cell will not be degraded. The non-inverting input of A2 can be biased at the low noise internal reference pin 6 or 10. Resistor R4 is used to biased up the output DC level of A2 for maximum swing. The output DC level of A2 is given by

$$V_{ODC} = V_{REF} \left(1 + \frac{R_3}{R_4} \right) - V_B \left(\frac{R_3}{R_4} \right) - (2)$$

V_B can be tied to a regulated power supply for a dual supply system and be grounded for a single supply system. CA sets the attack time constant and CR sets the recovery time constant.

Basic Compressor

Figure 2 shows the hook-up of the circuit as a compressor. The IC is put in the feedback loop of the OPA A1. The system gain expression is as follows:

$$\frac{V_{OUT}}{V_{IN}} = \frac{I_1}{2} \times \frac{R_2 \times R_1}{R_3 \times V_{OUT} (AVG)} - (1)$$

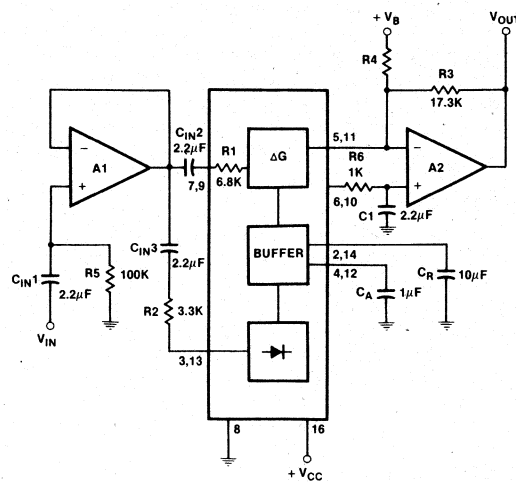
R_{DC1} , R_{DC2} , and C_{DC} form a dc feedback for A1. The output DC level of A1 is given by

$$C_{DC} = V_{REF} \left(1 + \frac{R_{DC1} + R_{DC2}}{R_4} \right) - V_B \left(\frac{R_{DC1} + R_{DC2}}{R_4} \right) - (2)$$

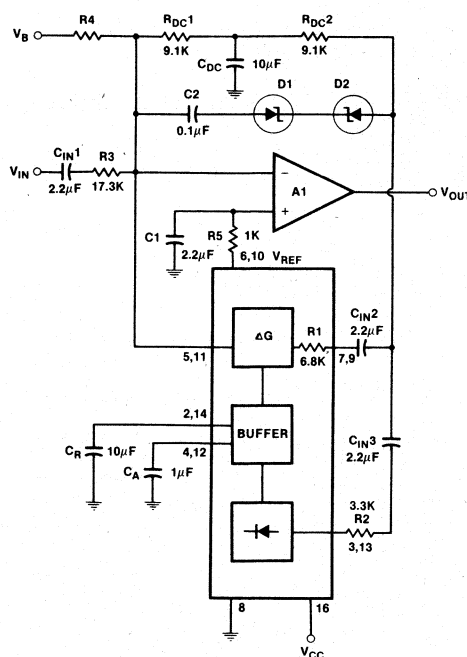
The zener diodes D1 and D2 are used for channel overload protection.

Basic Compandor System

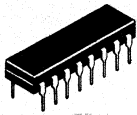
The above basic compressor and expander can be applied to systems such as tape disc noise reduction, digital audio, bucket brigade delay lines. Additional system design techniques such as bandlimiting, band splitting, pre-emphasis, de-emphasis and equalization are easy to incorporate. The IC is a versatile functional block to achieve a high performance audio system.



Basic Expander (Figure 1)



Basic Compressor (Figure 2)



COMPLEX SOUND GENERATOR

SN94281
276-1767

GENERAL DESCRIPTION

The SN94281 complex sound generator is a monolithic chip combining both analog (bipolar) and digital (I²L) circuitry. It includes a noise generator, a voltage-controlled oscillator (VCO), and a super-low-frequency oscillator (SLF) together with a noise filter, mixer, audio amplifier, and control circuitry to provide noise, tone, or low-frequency sounds and any combinations of these. Programming is accomplished via control inputs and user-defined external components, which allows a wide variety of sound to be created and tailored for particular applications. This device may be used in a variety of applications requiring audio feedback to the operator including entertainment equipment such as arcade or home video games, pinball games, toys; consumer-oriented equipment such as timers, alarms, and controls.

FEATURES

- Generates noise, tone, or low frequency based sounds, or combinations of these
- Sounds are defined by user via external components
- Allows custom sounds to be created easily
- Low power requirements
- Allows multiple sound system
- Compatible with microprocessor systems
- On board 125 MW audio amplifier

APPLICATIONS

- Home video games
- Timers
- Toys
- Pinball games
- Alarms

ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V _{CC}	12 V
Input Voltage: Logic Input	12 V
Capacitor Input	5 V
Resistor Input	5 V
Operating Ambient Temperature Range	0 to +70°C
Storage Temperature Range	-65 to +150°C

OPERATION

Super Low Frequency Oscillator (SLF)

The SLF is normally operated in the range of 0.1 to 30 hertz, but will operate up to 20 kHz. The frequency is determined by two external components, the SLF control resistor (R_{SLF}) at pin 11 at ground and the SLF control capacitor (C_{SLF}) at pin 12 at ground according to the following equation:

$$\text{Equation 1: SLF Frequency (Hz)} \approx 0.66 / (9K\Omega + R_{SLF}) \times C_{SLF} \text{ at } V_{REG} = 5V$$

The SLF supplies two signals to other parts of the device. It feeds a 50% duty cycle square wave to the mixer, and it feeds a triangular wave to the external VCO of SLF select logic, where, if VCO select (pin 13) is at a low logic level, it is fed through to the VCO to modulate the frequency of that oscillator.

Voltage Controlled Oscillator (VCO)

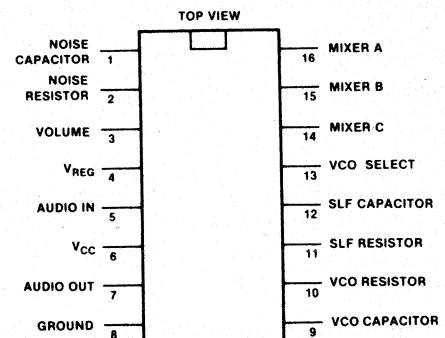
The VCO produces a tone output whose frequency is dependent upon the voltage at the input of the VCO. This controlling voltage may be either the SLF output described above, an internal voltage producing a constant tone, or externally by placing a voltage on the SLF capacitor pin. The higher the voltage applied to the VCO, the lower the frequency of the VCO output.

The first mode, VCO controlled by SLF, is selected by placing the VCO select pin low and supplying both the VCO capacitor (C_{VCO}) at pin 9 at ground and the VCO resistor (R_{VCO}) at pin 10 at ground. Minimum frequency of the VCO is determined by the following equation:

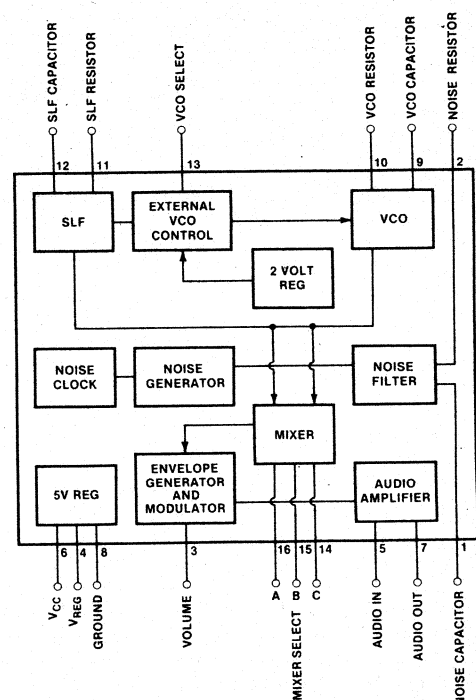
$$\text{Equation 2: Minimum VCO Frequency (Hz)} \approx 0.60 / (9K\Omega + R_{VCO}) \times C_{VCO}$$

The frequency range of the VCO is internally determined at an approximate ratio of 10:1, so that maximum frequency of the VCO will be approximately ten

PIN CONNECTION



BLOCK DIAGRAM



SN94281 276-1767

OPERATION (Cont'd)

times the minimum frequency determined by the external components R_{VCO} and C_{VCO} .

The second method of supplying a control voltage for the VCO is to use an internal voltage preset at 1 volt. This mode is selected by taking VCO select to a high level. In this mode, the VCO puts out a constant tone determined by C_{VCO} and R_{VCO} in this relationship:

$$\text{Equation 3: } f_{VCO} \cong 1.45 / (R_{VCO} + 9K\Omega) \times C_{VCO} \times 0.9V \text{ Hz}$$

A third method of controlling the voltage to the VCO is to apply the controlling voltage (V_{EXT}) to the SLF capacitor pin. This voltage level (0 to 2.30 volts) will determine the output frequency of the VCO. Output frequency in this mode is determined by this relationship:

$$\text{Equation 4: } f_{VCO} \cong 1.45 / (R_{VCO} + 9K\Omega) \times C_{VCO} \times (V_{EXT} - 0.1V) \text{ Hz}$$

Mixer

To obtain two sounds occurring simultaneously (e.g., car engine and siren or steam engine and whistle), multiplexing is required. The multiplexing is accomplished by switching the mixer select lines at a sufficiently rapid rate that the two sounds seem to occur at the same time. The frequency of the multiplexing should be above the human hearing range. A multiplexing drive signal with a 50% duty cycle is required to provide equal amplitudes for both sound functions.

Volume

Output volume from the 94281 can be controlled by varying a voltage level on pin 3. This voltage level should range from 3.5 volts, for maximum volume, to 0.4 volts or below for no output. Under no circumstances should this pin be taken above 5 volts or below 0 volts. Voltages outside of this range could damage the unit.

Noise Generator/Filter

The noise generator produces psuedo-random white noise that passes through the noise filter before being applied to the mixer. The variable-bandwidth low-pass filter has its cutoff point defined by the noise filter control resistor (R_{NF}) at pin 2 and the noise filter control capacitor (C_{NF}) at pin 1 according to the following equation:

$$\text{Equation 5: } f_{CUTOFF} \text{ (Hz)} \cong 0.43 / (9K\Omega + R_{NF}) \times C_{NF}$$

Output Amplifier

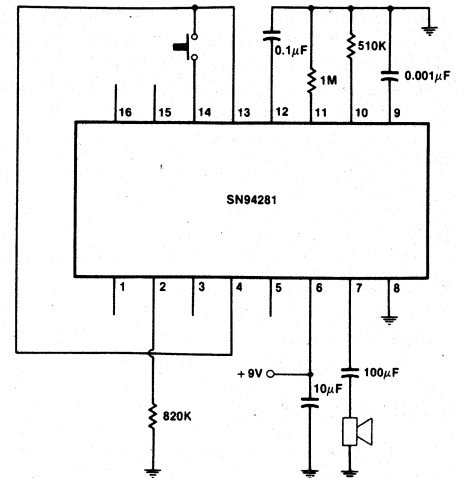
The output amplifier is contained entirely on chip. The amplifier operates in a transimpedance mode and has a push-pull output capable of delivering 125 mA into a capacitively coupled 8 ohm load. This produces a two volt peak-to-peak output signal. The amplifier input (pin 5) can be used to sum several external current signals. If the signals are composed of a varying voltage they must first be converted to current signals. This can be accomplished by using a resistor in series between the external source and the input (pin 5). The relationship of this resistor value (R_{SERIES}) to the external signal voltage (V_{MAX}) is given by the following equation:

$$-100 \mu A < V_{MAX} - 3V / R_{SERIES} < 100 \mu A$$

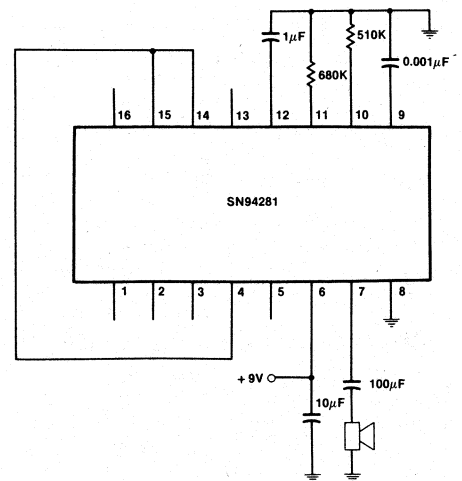
Gain of the amplifier can be controlled by adding a resistor in parallel to the internal 10 K Ω feedback resistor. This will decrease gain and allow a larger input current.

Regulator

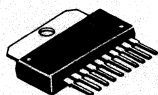
The circuit will operate from a single supply (pin 6). An internal 5 volt regulator allows the use of a 7.5 volt to 10.5 volt unregulated supply applied to V_{CC} (pin 6) and in addition to supplying power for the chip, the internal regulator will provide a 5 volt regulated supply of up to 5 mA from V_{REG} (pin 4) for use outside the integrated circuit.



Train with Whistle



Bird Sound



5.8W AUDIO POWER AMPLIFIER

TA7205AP
276-705

GENERAL DESCRIPTION

The TA7205AP is a monolithic audio power amplifier with a built in thermal shut-down circuit designed for car radio and stereo applications.

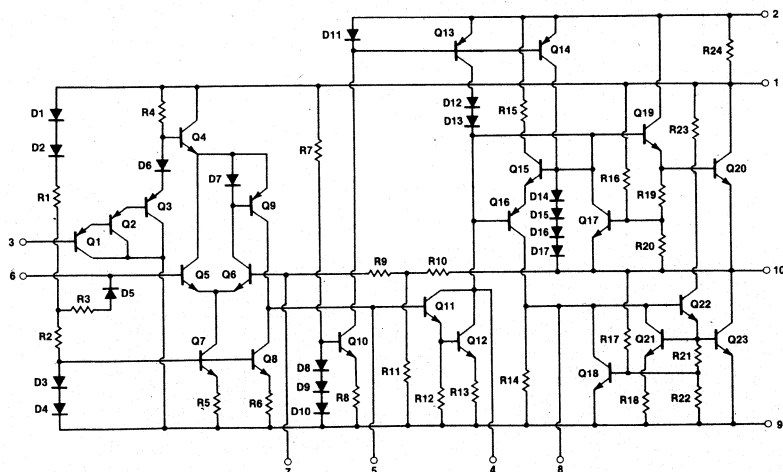
FEATURES

- Low distortion
THD=0.15% (Typ.) (@ $P_{OUT}=1W$, $G_V=55dB$)
THD=0.07% (Typ.) (@ $P_{OUT}=1W$, $G_V=44dB$)
- Operating supply voltage range: $V_{CC}=9\sim 18V$
- 'PCT' process to insure low noise characteristic
- Current limiting for short-circuit protection
- Built in thermal shut-down circuit
- Built in surge voltage protection circuit

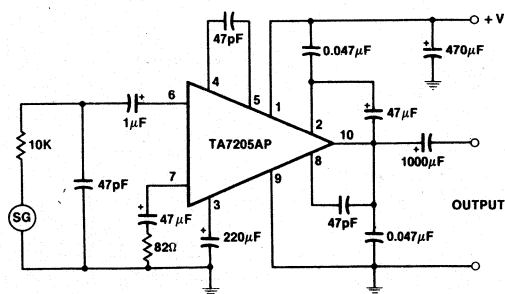
ABSOLUTE MAXIMUM RATINGS

Operating Supply Voltage (V_{CC}) 18V
Quiescent Supply Voltage (V_{CCQ}) 25V
Output Peak Current (I_O) 4.5A
Quiescent Current (I_{CCQ}) 80mA
Operating Temperature -20 to +75°C
Storage Temperature -55 to +150°C

INTERNAL CIRCUIT

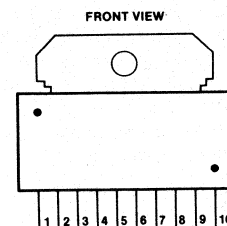


TYPICAL APPLICATION



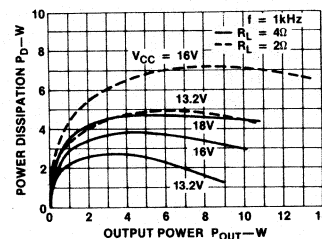
5 Watt Audio Amplifier

PIN CONNECTION

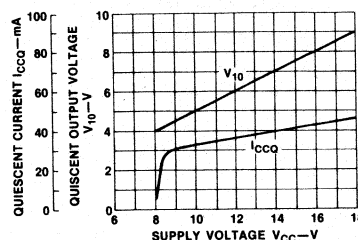


PIN	FUNCTION
1	V+
2	BOOTSTRAP
3	DECOUPLING
4	PHASE COMPENSATION
5	PHASE COMPENSATION
6	INPUT
7	NEGATIVE FEEDBACK
8	PHASE COMPENSATION
9	GROUND
10	OUTPUT

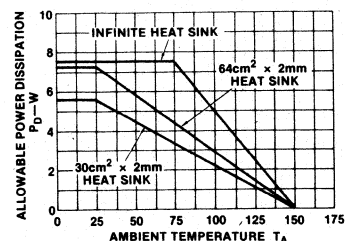
TYPICAL CHARACTERISTICS



Power Dissipation vs Output Power



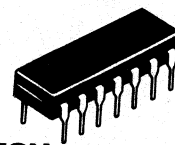
Quiescent Current and Output Voltage vs Supply Voltage



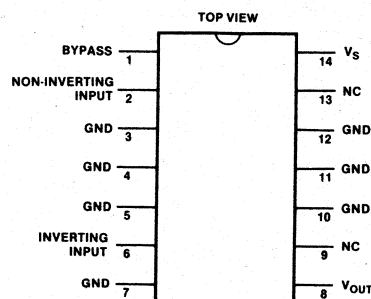
Allowable Power Dissipation vs Ambient Temperature

380
276-706

AUDIO POWER AMPLIFIER



PIN CONNECTION



GENERAL DESCRIPTION

The 380 is a power audio amplifier for consumer application. In order to hold system cost to a minimum, gain is internally fixed at 34 dB. A unique input stage allows inputs to be ground referenced. The output is automatically self centering to one half the supply voltage.

The output is short circuit proof with internal thermal limiting. The package outline is standard dual-in-line. A copper lead frame is used with the center three pins on either side comprising a heat sink. This makes the device easy to use in standard p-c layout.

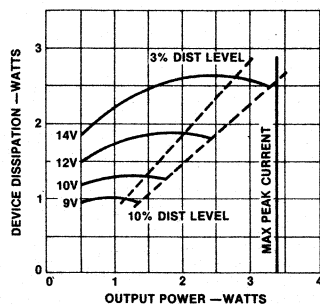
FEATURES

- Wide supply voltage range
- Low quiescent power drain
- High peak current capability
- Input referenced to GND
- High input impedance
- Low distortion
- Quiescent output voltage is at one-half of the supply voltage

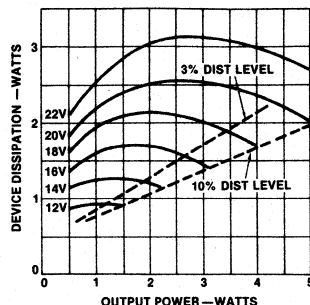
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	22 V
Peak Current	1.3 A
Package Dissipation 14-Pin DIP	10 W
Input Voltage	± 0.5 V
Storage Temperature	-65 to +150°C
Operating Temperature	0 to +70°C
Junction Temperature	+150°C
Lead Temperature (Soldering, 10 sec)	+300°

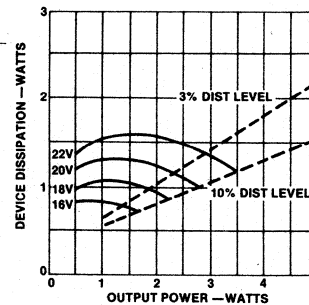
TYPICAL CHARACTERISTICS



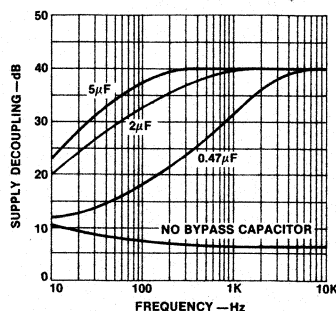
Device Dissipation vs
Output Power — 4Ω Load



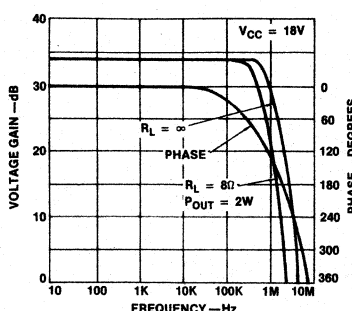
Device Dissipation vs
Output Power — 8Ω Load



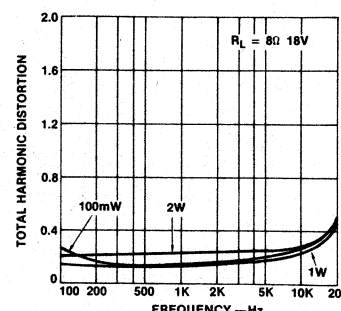
Device Dissipation vs
Output Power — 16Ω Load



Supply Decoupling
vs Frequency

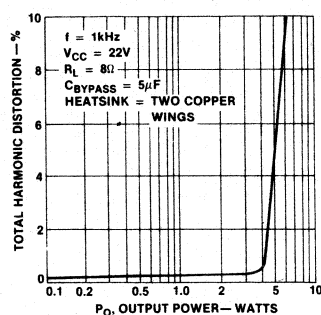


Output Voltage Gain and Phase
vs Frequency

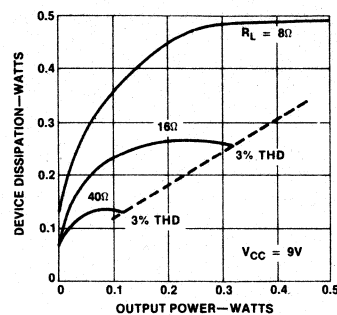


Total Harmonic Distortion
vs Frequency

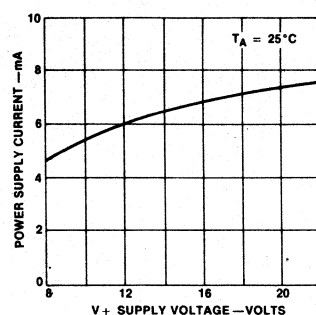
TYPICAL CHARACTERISTICS (Cont'd)



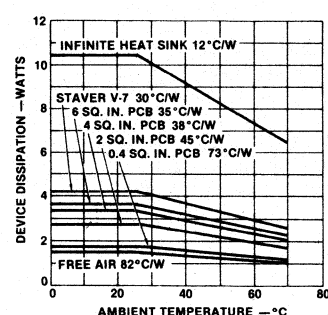
Total Harmonic Distortion vs Output Power



Device Dissipation vs Output Power

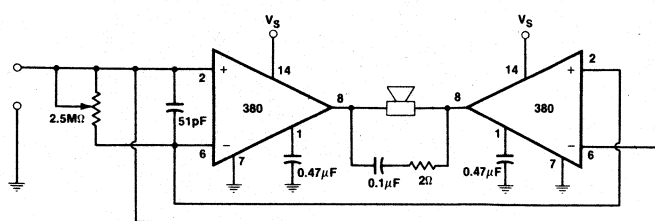


Power Supply Current vs Supply Voltage

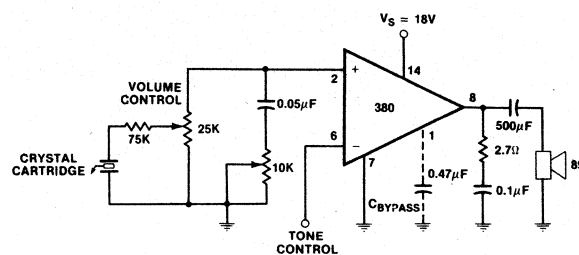


Device Dissipation vs Ambient Temperature

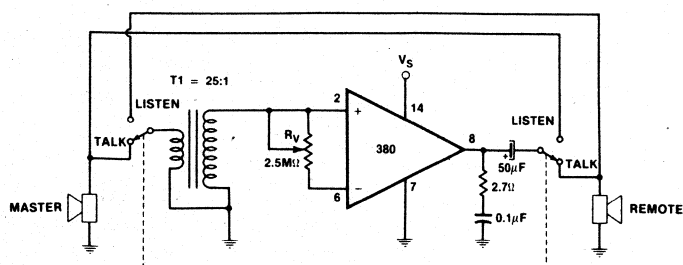
TYPICAL APPLICATIONS



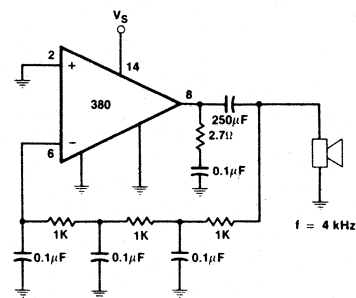
Bridge Amplifier



Phono Amplifier



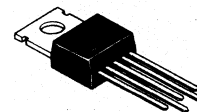
Intercom



Phase Shift Oscillator

383
276-703

8 WATT AUDIO POWER AMPLIFIER



GENERAL DESCRIPTION

The 383 is a cost effective, high power amplifier suited for automotive applications. High current capability (3.5A) enables the device to drive low impedance loads with low distortion. The 383 is current limited and thermally protected. The 383 comes in a 5-pin TO-220 package.

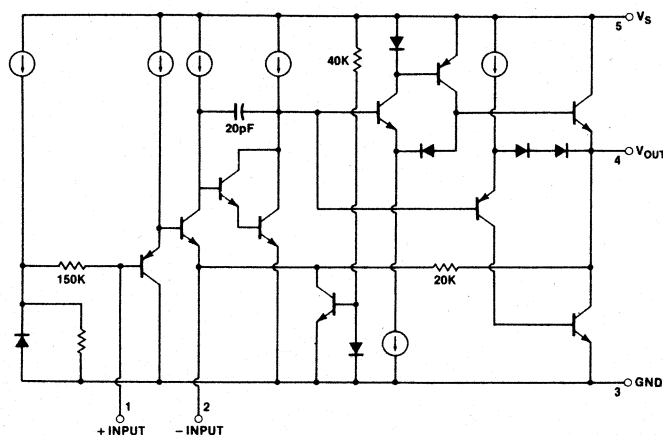
FEATURES

- High peak current capability (3.5A)
- Large output voltage swing
- Externally programmable gain
- Wide supply voltage range (5V–20V)
- Few external parts required
- Pin for pin compatible with TDA2002
- Low distortion
- High input impedance
- No turn-on transients
- Low noise
- Short circuit protected

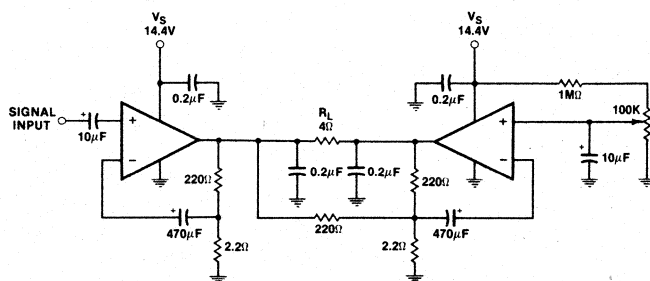
ABSOLUTE MAXIMUM RATINGS

Peak Supply Voltage (50 ms)	25V
Operating Supply Voltage	20V
Output Current	
Repetitive	3.5A
Non-repetitive	4.5A
Input Voltage	$\pm 0.5V$
Power Dissipation	15W
Operating Temperature	0 to +70°C
Storage Temperature	-60 to +150°C
Lead Temperature (Soldering, 10 seconds)	300°C

INTERNAL CIRCUIT

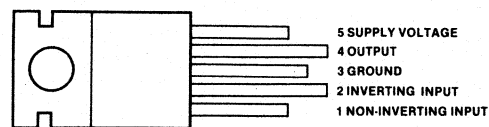


TYPICAL APPLICATIONS

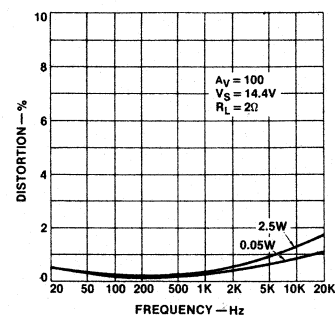


16W Bridge Amplifier

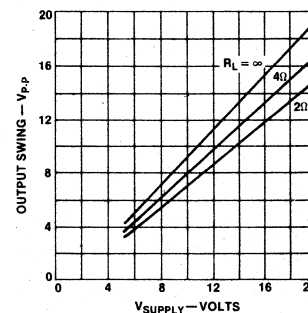
PIN CONNECTION



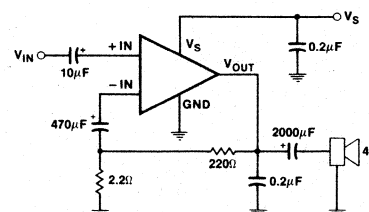
TYPICAL CHARACTERISTICS



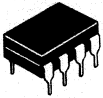
Distortion vs Frequency



Output Swing vs Supply Voltage



Basic Audio Amp



LOW VOLTAGE AUDIO POWER AMPLIFIER

386
276-1731

GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milli-watts when operating from a 6 volt supply, making the 386 ideal for battery operation.

FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

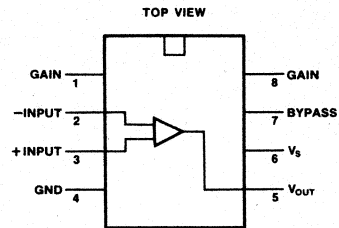
APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

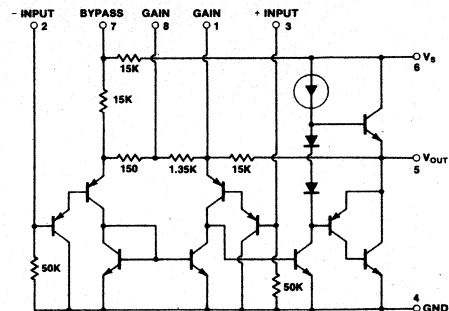
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	15V
Package Dissipation 8 Pin DIP	660 mW
Input Voltage	$\pm 0.4V$
Junction Temperature	+150°C
Operating Temperature	0 to +70°C
Storage Temperature	-65 to +150°C
Lead Temperature (Soldering, 10 seconds)	+300°C

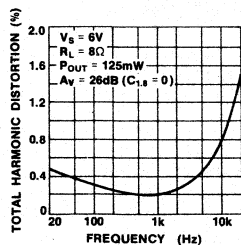
PIN CONNECTION



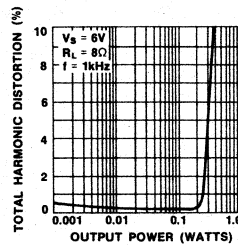
INTERNAL CIRCUIT



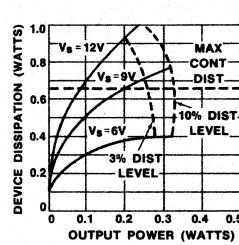
TYPICAL CHARACTERISTICS



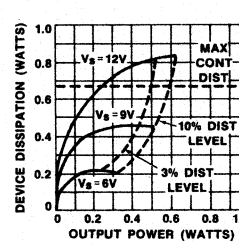
Distortion vs
Frequency



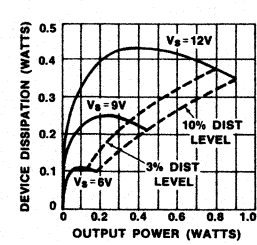
Distortion vs
Output Power



Device Dissipation vs
Output Power—4Ω Load

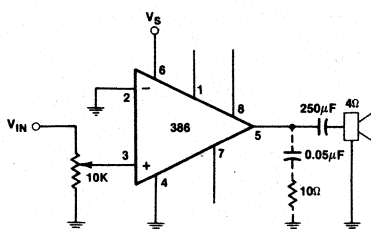


Device Dissipation vs
Output Power—8Ω Load

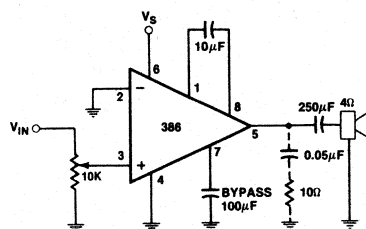


Device Dissipation vs
Output Power—16Ω Load

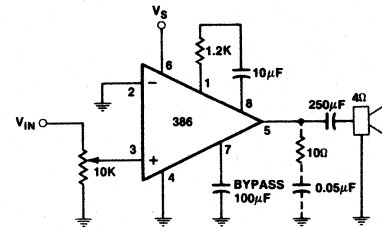
TYPICAL APPLICATIONS



Amplifier with Gain = 20
(Minimum Parts)



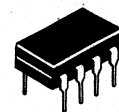
Amplifier with Gain = 50



Amplifier with Gain = 200

387
276-1737

LOW NOISE DUAL PREAMPLIFIER



GENERAL DESCRIPTION

The 387 is a dual preamplifier for the amplification of low level signals in applications requiring optimum noise performance. Each of the two amplifiers is completely independent, with an internal power supply decoupler-regulator, providing 110 dB supply rejection and 60 dB channel separation. Other outstanding features include high gain (104 dB), large output voltage swing ($V_{CC} - 2$ V) p.p., and wide power band width (75 kHz, 20 V_{p.p.}). The 387 operates from a single supply across the wide range of 9 to 30 V.

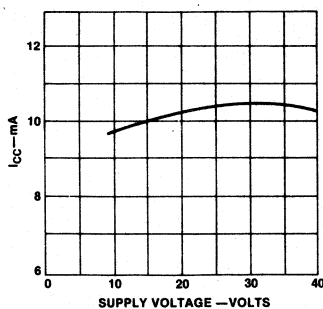
FEATURES

- Low noise — 0.8 μ V total input noise
- High gain — 104 dB open loop
- Wide supply range — 9 to 30 V
- Power supply rejection — 110 dB
- Large output voltage swing ($V_{CC} - 2$ V) p.p.
- Wide band width 15 MHz unity gain
- Power band width 75 kHz, 20 V_{p.p.}
- Internally compensated
- Short circuit protected

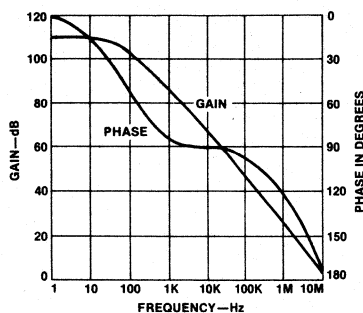
ABSOLUTE MAXIMUM RATINGS

Supply Voltage +30 V
Operating Temperature Range 0 to +70°C
Storage Temperature Range -65 to +150°C
Lead Temperature (Soldering, 10 seconds) 300°C

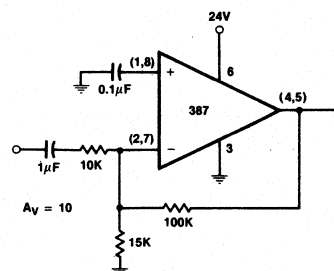
TYPICAL CHARACTERISTICS



Supply Current vs
Supply Voltage

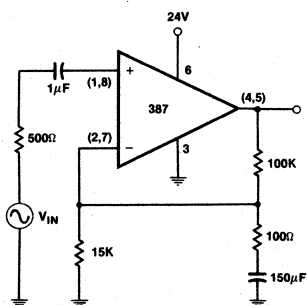


Gain and Phase Response
vs Frequency

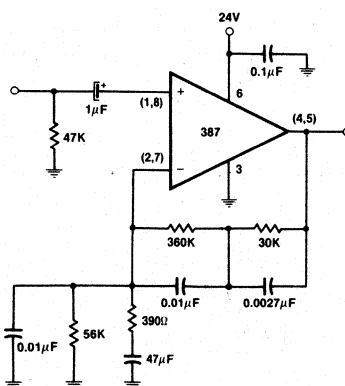


Ultra-Low Distortion
Inverting Amplifier

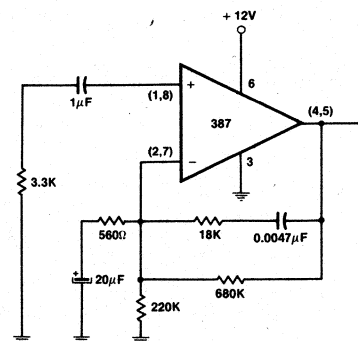
TYPICAL APPLICATIONS



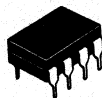
Flat Gain Circuit
($A_v = 1000$)



Magnetic Phono Preamplifier



NAB Tape Circuit



LOW-LEVEL VIDEO DETECTOR

MC1330
276-1757

GENERAL DESCRIPTION

This is an integrated circuit featuring very linear video characteristics and wide bandwidth. Designed for color and monochrome television receivers, replacing the third IF, detector, video buffer and AFC buffer.

The MC1330A video detector is a fully balanced multiplier detector circuit that has linear amplitude and phase characteristics. The signal is divided into two channels, one a linear amplifier and the other a limiting amplifier that provides the switching carrier for the detector.

The switching carrier has a buffered output for use in providing the AFT function.

The video amplifier output is an improved design that reduces the differential gain and phase distortion associated with previous video output systems. The output is wide band, > 8.0 MHz, with normal negative polarity. A separate narrow bandwidth, positive video output is also provided.

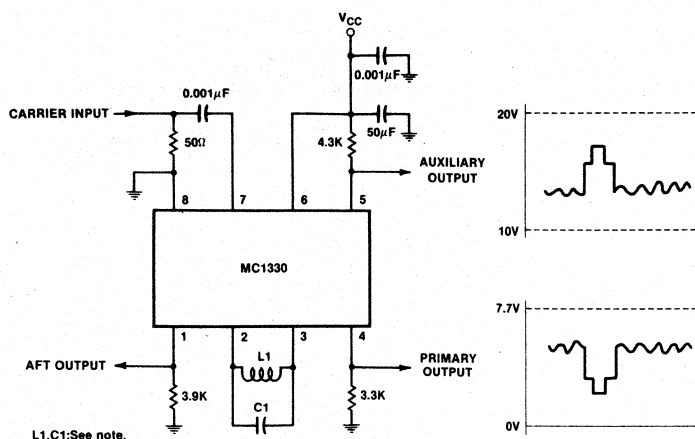
FEATURES

- Conversion gain—33 dB typical
- Excellent differential phase and gain
- High rejection of IF carrier feedthrough
- High video output—8.0 V p-p
- Fully balanced detector
- Output temperature compensated

ABSOLUTE MAXIMUM RATINGS

Power Supply Voltage	24 Vdc
DC Video Output Current	5mAdc
DC AFT Output Current	2mAdc
Zero Signal dc Output Voltage ($V_{CC}=+20$ Vdc, $Q=40$, $f_c=45.75$ MHz)	
MC1330A1P	8.2 Vdc
MC1330A2P	9.0 Vdc
Supply Current	20mA
Maximum Signal dc Output Voltage (Pin 4)	0.5 Vdc
Conversion Gain for 1Vp-p Output (30% Modulation)	65mVrms
AFT Buffer Output at Carrier Frequency	650mVp-p
Junction Temperature	150°C
Operating Temperature Range (Ambient)	0 to +75°C
Storage Temperature Range	-65 to +150°C

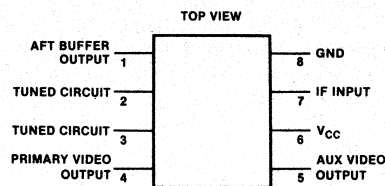
TYPICAL APPLICATIONS



NOTE: The choice of Q for the tuned circuit of pins 2 and 3 is not critical. The higher the Q, the better the rejection of 920 kHz products but the more critical the tuning accuracy required. See Figure 3. Values of Q from 20 to 50 recommended. (Note the internal resistance.)

Test Fixture Circuit

PIN CONNECTION



TYPICAL CHARACTERISTICS ($V_{CC}=+20$ Vdc)

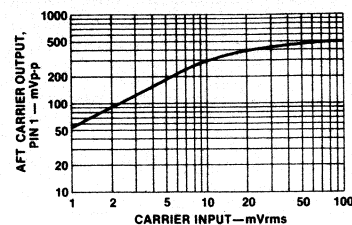


Figure 1

AFT Carrier Output
vs Carrier Input

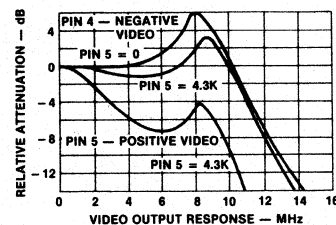


Figure 2

Relative Attenuation vs
Video Output Response

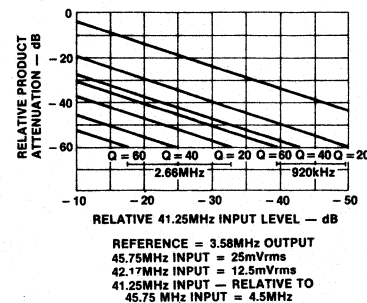


Figure 3

Relative Product Attenuation vs
Relative 41.25 MHz Input Level

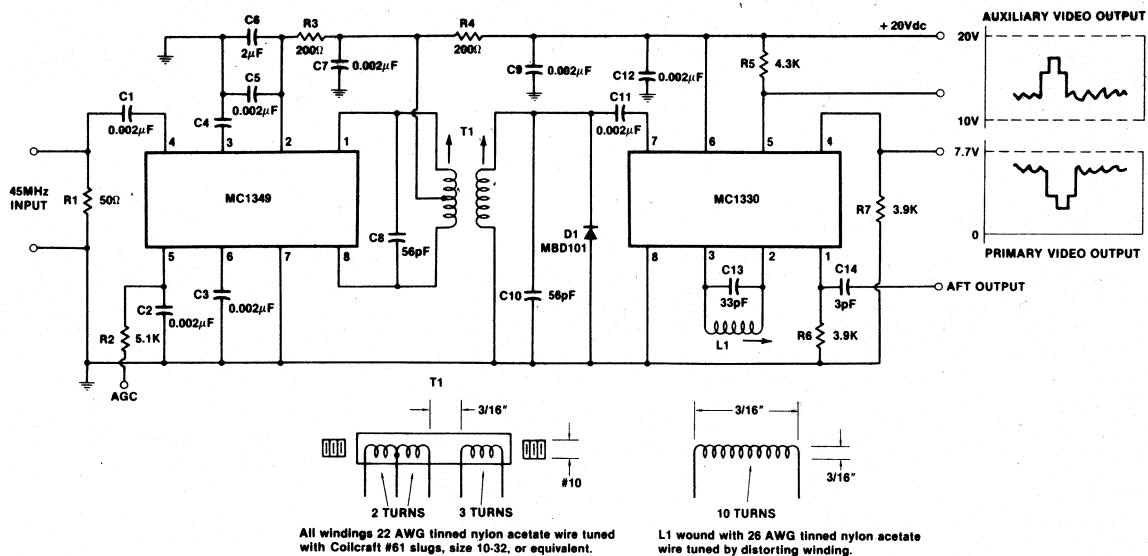
MC1330 276-1757

TYPICAL APPLICATIONS (Cont'd)

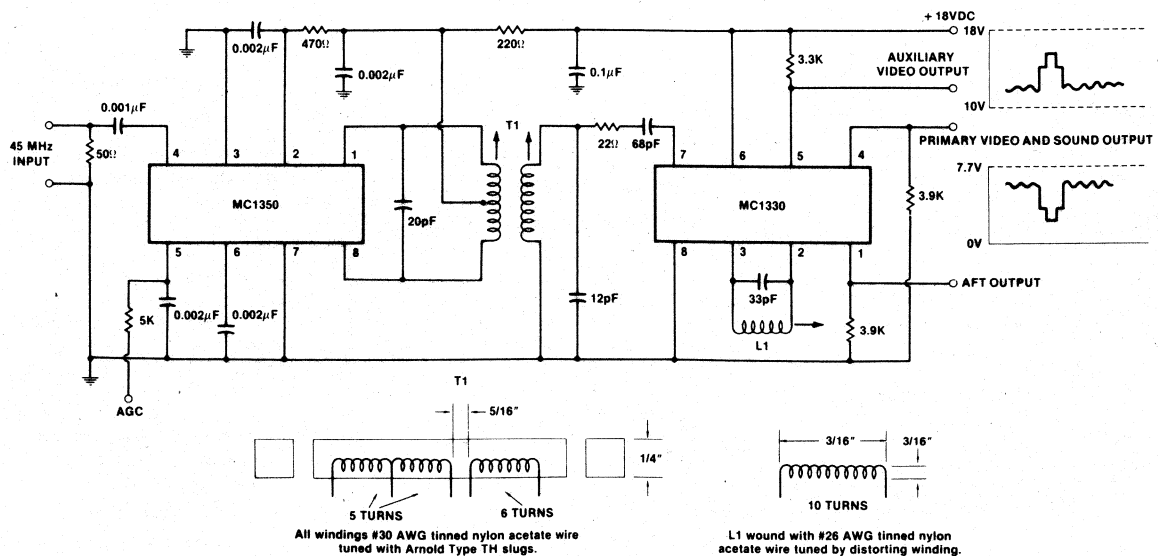
Alignment is most easily accomplished with an AM generator, set at a carrier frequency of 45.75 MHz, modulated with a video frequency sweep. This provides the proper realistic conditions necessary to operate to low-level detector (LLD). The detector tank is first adjusted for maximum detected dc (with a CW input), next, the video sweep modulation is applied and the interstage and input circuits aligned, step by step, as in a standard IF amplifier.

Note: A normal IF sweep generator, essentially an FM generator, will not serve properly without modification. The LLD tank attempts to "follow" the sweep input frequency, and results in variations of switching amplitude in the detector. Hence, the apparent overall response becomes modified by the response of the LLD tank, which a real signal doesn't do.

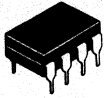
This effect can be prevented by resistively adding a 45.75 MHz CW signal to the output of the sweep generator approximately 3 dB greater than the sweep amplitude.



Video IF Amplifier and Low-Level Detector



Typical MC1350 Video IF Amplifier and MC1330 Low-Level Video Detector Circuit



IF AMPLIFIER

MC1350
276-1758

GENERAL DESCRIPTION

This monolithic IF amplifier is an integrated circuit featuring wide range AGC for use as an IF amplifier in radio and TV.

The input amplifiers (Q1 and Q2) operate at constant emitter currents so that input impedance remains independent of AGC action. Input signals may be applied single-ended or differentially (for ac) with identical results. Terminals 4 and 6 may be driven from a transformer, but a dc path from either terminal to ground is not permitted.

AGC action occurs as a result of an increasing voltage on the base of Q4 and Q5 causing these transistors to conduct more heavily thereby shunting signal current from the interstage amplifiers Q3 and Q6. The output amplifiers are supplied from an active current source to maintain constant quiescent bias thereby holding output admittance nearly constant. Collector voltage for the output amplifier must be supplied through a center-tapped tuning coil to Pins 1 and 8. The 12-volt supply (V^+) at Pin 2 may be used for this purpose, but output admittance remains more nearly constant if a separate 15-volt supply (V^{++}) is used, because the base voltage on the output amplifier varies with AGC bias.

FEATURES

- Power gain — 50 dB typ at 45 MHz,
— 48 dB typ at 58 MHz
- AGC range — 60 dB min. dc to 45 MHz
- Nearly constant input and output admittance over the entire AGC range
- y_{21} constant (-3.0 dB) to 90 MHz
- Low reverse transfer admittance — $\ll 1.0 \mu\text{mho}$ typ
- 12-volt operation, single-polarity-power supply

ABSOLUTE MAXIMUM RATINGS

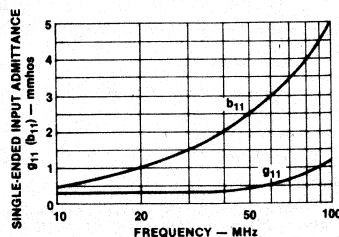
Power Supply Voltage.....	18Vdc
Power Dissipation.....	625mW
Operating Temperature Range.....	0 to +75°C

ELECTRICAL CHARACTERISTICS

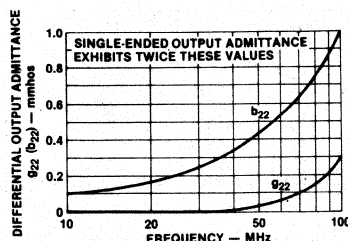
($V^+ = +12$ Vdc; $T_A = +25^\circ\text{C}$ unless otherwise noted)

Power Gain (Pin 5 grounded via a 5.1k resistor)	
$f = 58$ MHz, BW = 4.5 MHz.....	48dB
$f = 45$ MHz, BW = 4.5 MHz.....	50dB
$f = 10.7$ MHz, BW = 350 kHz.....	58dB
$f = 455$ kHz, BW = 20 kHz.....	62dB
Power Dissipation.....	204mW

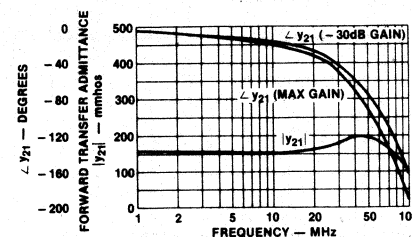
TYPICAL CHARACTERISTICS ($V^+ = +12\text{V}$, $T_A = +25^\circ\text{C}$)



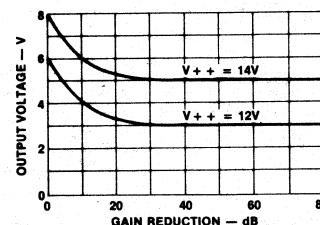
Input Admittance vs Frequency



Differential Output Admittance vs Frequency

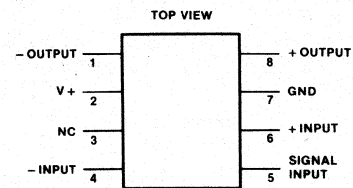


Forward Transfer Admittance and Phase vs Frequency

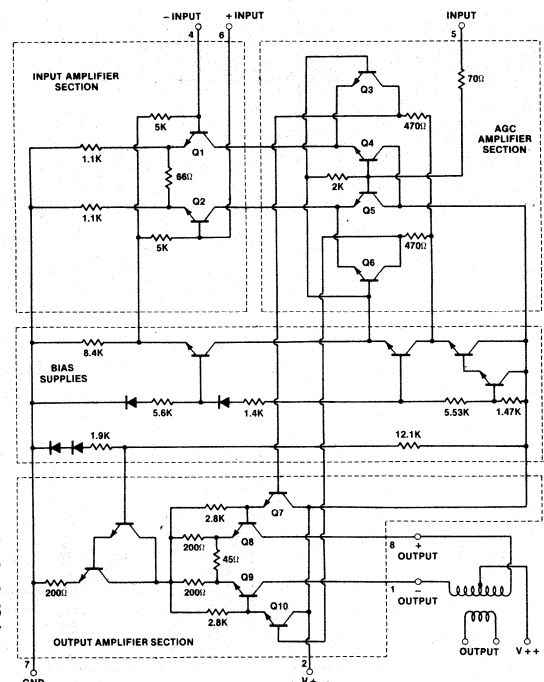


Differential Output Voltage vs Gain Reduction

PIN CONNECTION

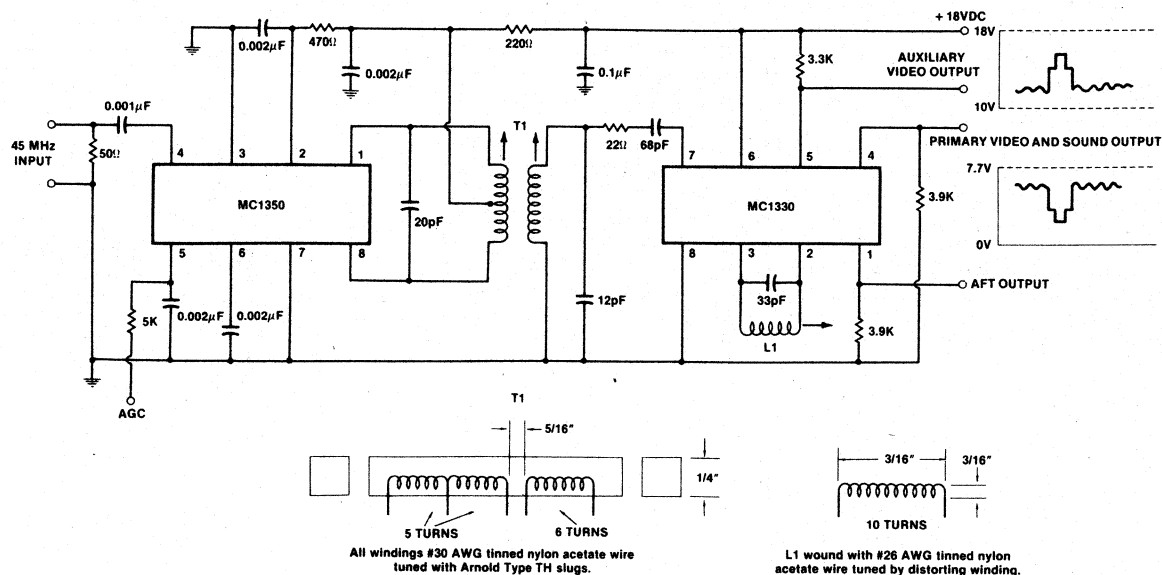


INTERNAL CIRCUIT

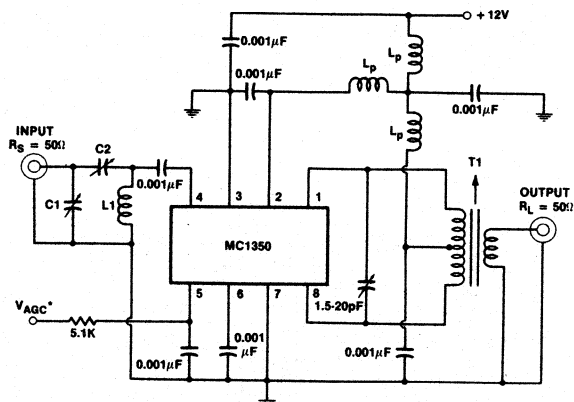


MC1350 276-1758

TYPICAL APPLICATIONS



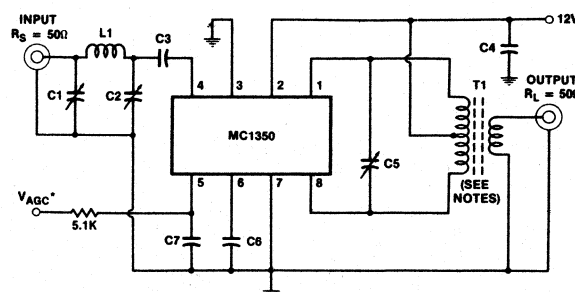
Typical MC1350 Video IF Amplifier and MC1330 Low-Level Video Detector Circuit



*Connect to ground for maximum power gain test.
All power-supply chokes (L_p), are self-resonate at input frequency. $L_p > 20K$
L1 @ 45 MHz = 7 1/4 turns on a 1/4" coil form.
@ 58 MHz = 6 turns on a 1/4" coil form.
T1 primary winding = 18 turns on a 1/4" coil form, center-tapped.
secondary winding = 2 turns centered over primary winding @ 45MHz
= 1 turn @ 58MHz
Core = Arnold TH material 1/2" long.

	45MHz	58MHz
L1	0.4μH	0.3μH
T1	1.3-3.4μH	1.2-3.8μH
C1	50-180pF	8-60pF
C2	8-60pF	3-35pF

Power Gain, AGC, and Noise Figure Test Circuit (45 MHz and 58 MHz)



*Grounded for maximum power gain.

Note 1. Primary = 120μH, center-tapped.

$Q_p = 140$ at 455kHz.

Primary : Secondary turns ratio = 13

2. Primary = 6.0μH

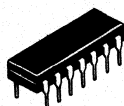
Primary winding = 24 turns #36 AWG, close wound on 1/4" diameter form.

Secondary winding = 1 1/2 turns #36 AWG, 1/4" diameter, wound over center-tap.

Core = Arnold type TH, or equivalent.

COMPONENT	FREQUENCY	
	455kHz	10.7MHz
C1	—	80-450pF
C2	—	5-80pF
C3	0.05μF	0.001μF
C4	0.05μF	0.05μF
C5	0.001μF	35pF
C6	0.05μF	0.05μF
C7	0.05μF	0.05μF
L1	—	4.0μH
T1	NOTE 1	NOTE 2

Power Gain and AGC Test Circuit (455 kHz and 10.7 MHz)



IF AMPLIFIER, LIMITER, FM DETECTOR AUDIO DRIVER, ELECTRONIC ATTENUATOR

MC1358
276-1759

GENERAL DESCRIPTION

This TV sound IF amplifier is a versatile monolithic device incorporating IF limiting, detection, electronic attenuation, audio amplifier, and audio driver capabilities.

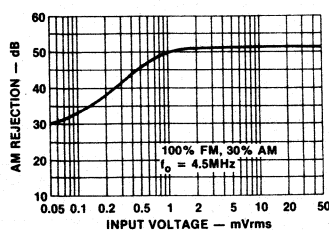
FEATURES

- Differential peak detector requiring a single tuned circuit
- Electronic attenuator replaces conventional ac volume control — Range > 60 dB
- Excellent AM rejection at 4.5 and 5.5 MHz
- High stability
- Low harmonic distortion
- Audio drive capability — 6.0 mA p-p
- Minimum undesirable output signal @ maximum attenuation

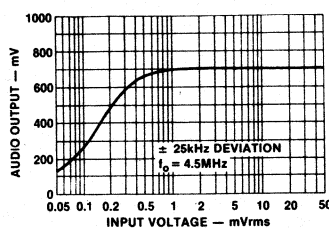
ABSOLUTE MAXIMUM RATINGS

Input Signal Voltage (Pins 1 and 2) $\pm 3.0\text{Vdc}$
 Power Supply Current 50mA
 Power Dissipation 625mW
 Operating Temperature Range (Ambient) -20 to +75°C
 Storage Temperature Range -65 to +150°C

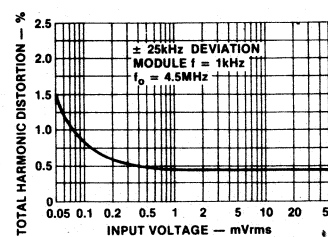
TYPICAL CHARACTERISTICS



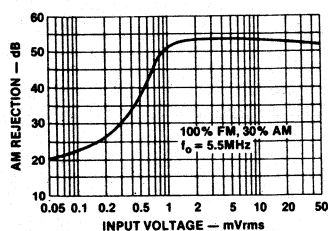
AM Rejection vs
Input Voltage



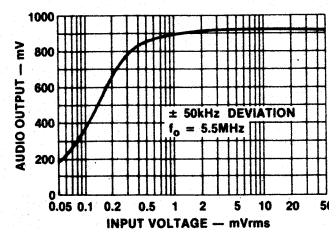
Audio Output vs
Input Voltage



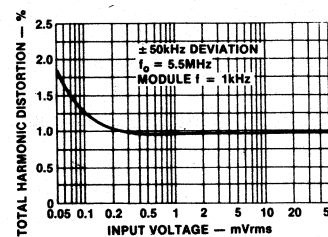
Total Harmonic Distortion
vs Input Voltage



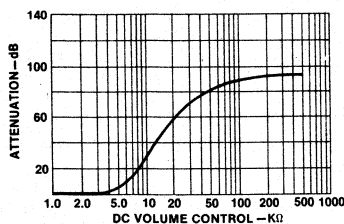
AM Rejection vs
Input Voltage



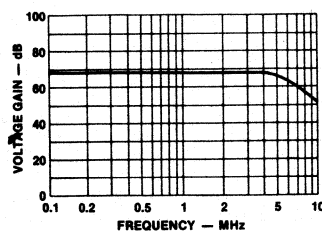
Audio Output vs
Input Voltage



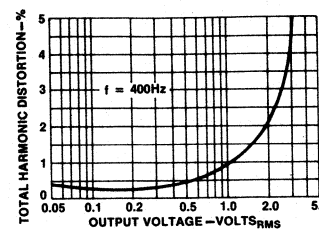
Total Harmonic Distortion
vs Input Voltage



Attenuation vs
DC Volume Control

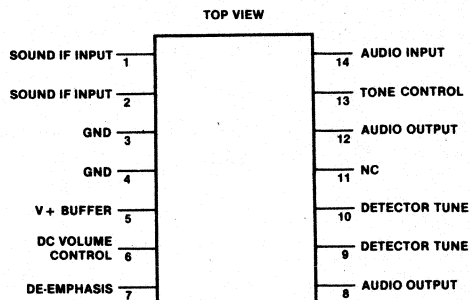


Voltage Gain vs
IF Frequency



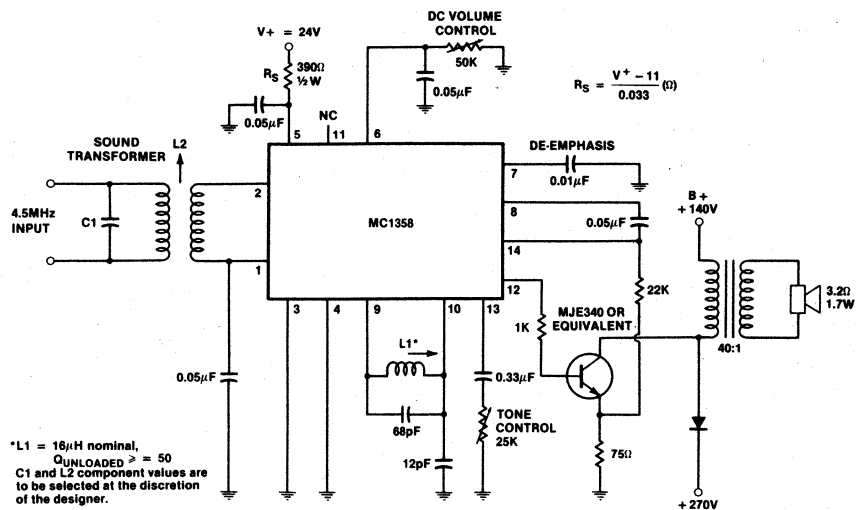
Total Harmonic Distortion
vs Output Voltage

PIN CONNECTION

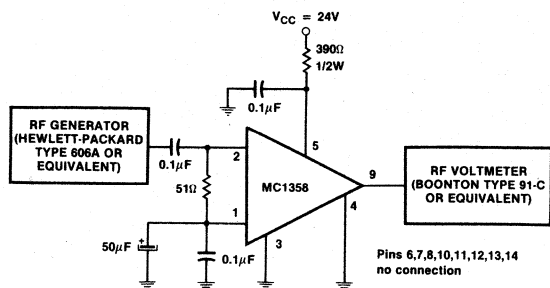


MC1358 276-1759

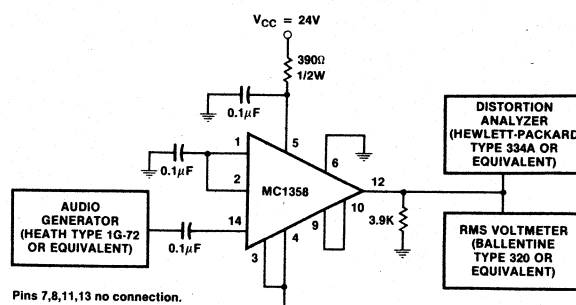
TYPICAL APPLICATIONS



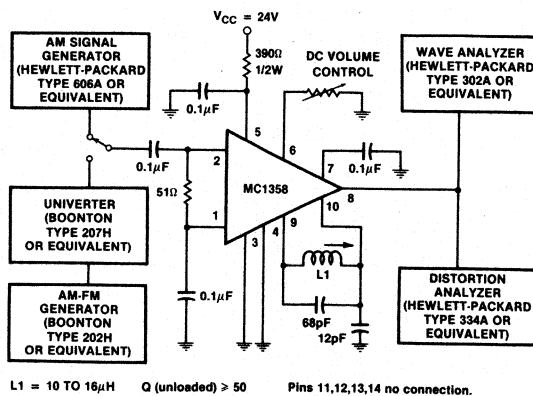
TV Application



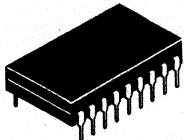
IF Frequency Response Test Circuit



Audio Voltage Gain,
Audio THD Test Circuit



AM Rejection, Detected Audio,
THD, Attenuation Test Circuit



DOT/BAR DISPLAY DRIVER

3916
276-1709

GENERAL DESCRIPTION

The 3916 is a monolithic integrated circuit that senses analog voltage levels and drives ten LEDs, LCDs or vacuum fluorescent displays, providing an electronic version of the popular VU meter. One pin changes the display from a bar graph to a moving dot display. LED current drive is regulated and programmable, eliminating the need for current limiting resistors. The whole display system can operate from a single supply as low as 3V or as high as 25V.

The IC contains an adjustable voltage reference and an accurate ten-step voltage divider. The high-impedance input buffer accepts signals down to ground and up to within 1.5V of the positive supply. Further, it needs no protection against inputs of $\pm 35V$. The input buffer drives 10 individual comparators referenced to the precision divider. Accuracy is typically better than 0.2 dB.

Audio applications include average or peak level indicators, and power meters. Replacing conventional meters with an LED bar graph results in a faster responding, more rugged display with high visibility that retains the ease of interpretation of an analog display.

The 3916 is extremely easy to apply. A 1.2V full-scale meter requires only one resistor in addition to the ten LEDs. One more resistor programs the full-scale anywhere from 1.2V to 12V independent of supply voltage. LED brightness is easily controlled with a single pot.

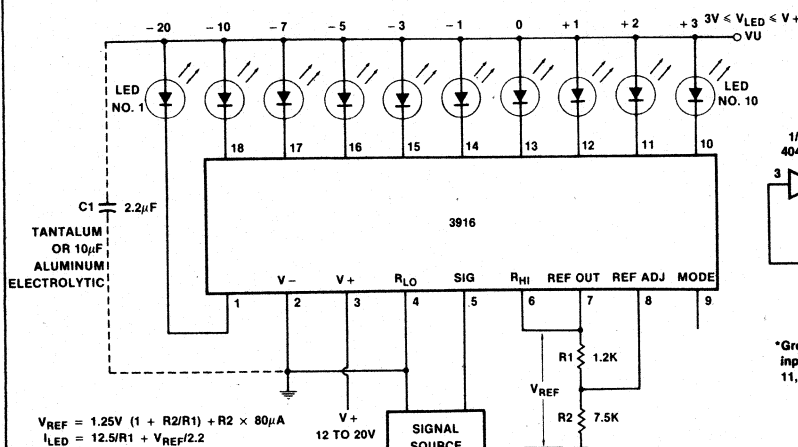
FEATURES

- Fast responding electronic VU meter
- Drives LEDs, LCDs, or vacuum fluorescents
- Bar or dot display mode externally selectable by user
- Expandable to displays of 70 dB
- Internal voltage reference from 1.2V to 12V
- Inputs operate down to ground
- Output current programmable from 1 mA to 30 mA
- Input withstands $\pm 35V$ without damage or false outputs
- Outputs are current regulated, open collectors
- Directly drives TTL or CMOS
- The internal 10-step divider is floating and can be referenced to a wide range of voltages

ABSOLUTE MAXIMUM RATINGS

Supply Voltage 3 to 25 V
Input Signal Over Voltage $\pm 35 V$
Storage Temperature 0 to 70°C

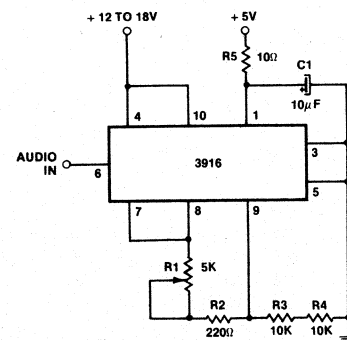
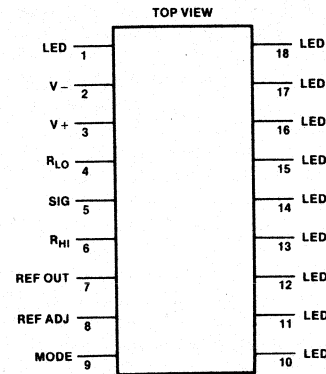
TYPICAL APPLICATIONS



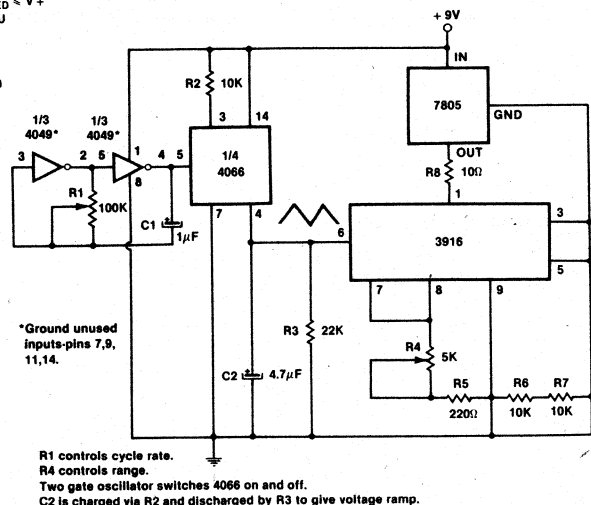
Notes: 1. Capacitor C1 is required if leads to the LED supply are 6" or longer.
2. Circuit as shown is wired for dot anode. For bar mode, connect pin 9 to pin 3.
LED must be kept below 7V or dropping resistor should be used to limit IC power dissipation.

0V to 10V VU Meter

PIN CONNECTION



VU Bar Graph Display

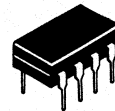


Back and Forth Flasher

ICL7660

276-2335

VOLTAGE CONVERTER



GENERAL DESCRIPTION

The ICL7660 is a power supply circuit which offers unique performance advantages over previously available devices. The ICL7660 performs the complete supply voltage conversion from positive to negative for an input range of +1.5 to +10.0V, resulting in complementary output voltages of -1.5 to -10.0V with the addition of only 2 non-critical external capacitors needed for the charge pump and charge reservoir functions. Note that an additional diode is required for $V_{SUPPLY} > 6.5V$.

Contained on chip are a series DC power supply regulator, RC oscillator, voltage level translator, four output power MOS switches, and a unique logic element which senses the most negative voltage in the device and ensures that the output N-channel switches are not forward biased. This assures latch-up free operation.

The oscillator, when unloaded, oscillates at a nominal frequency of 10 kHz for an input supply voltage of 5.0 volts. This frequency can be lowered by the addition of an external capacitor to the "OSC" terminal, or the oscillator may be overdriven by an external clock.

The "LV" terminal may be tied to GROUND to bypass the internal series regulator and improve low voltage (LV) operation. At medium to high voltages (+3.5 to +10.0 volts), the LV pin is left floating to prevent device latchup.

Typical applications for the ICL7660 will be data acquisition and microprocessor based systems where there is a +5 volt supply available for the digital functions and an additional -5 volt supply is required for the analog functions. The ICL7660 is also ideally suited for providing low current, -5V body bias supply for dynamic RAMs.

FEATURES

- Simple conversion of +5V logic supply to $\pm 5V$ supplies
- Simple voltage multiplication ($V_{OUT} = (-) nV_{IN}$)
- 99.9% typical open circuit voltage conversion efficiency
- 98% typical power efficiency
- Wide operating voltage range 1.5 to 10.0V
- Easy to use - requires only 2 external non-critical passive components

APPLICATIONS

- On board negative supply for up to 64 dynamic RAMs.
- Localized μ -processor (8080 type) negative supplies
- Inexpensive negative supplies
- Data acquisition systems

ABSOLUTE MAXIMUM RATINGS

Supply Voltage 10.5V

Oscillator Input Voltage (Note 1) -0.3V to $(V^+ + 0.3V)$ for $V^+ < 5.5V$
 $(V^+ - 5.5V)$ to $(V^+ + 0.3V)$ for $V^+ > 5.5V$
-0.3V to $(V^+ + 0.3V)$ for $V^+ < 3.5V$

LV (Note 1)..... No connection for $V^+ > 3.5V$

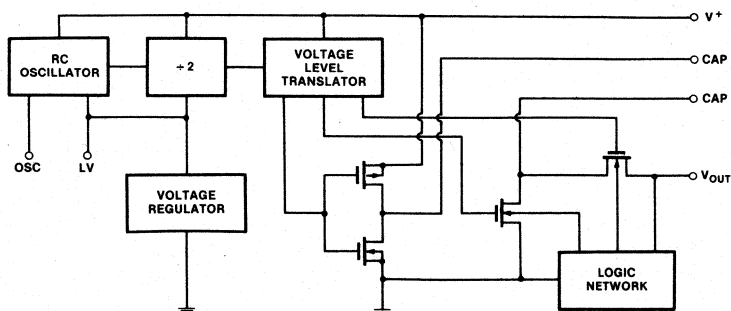
Output Short Duration ($V_{SUPPLY} \leq 5.5V$) Continuous

Power Dissipation (Note 2) ICL7660CPA 300mW

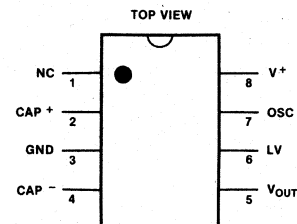
Notes: 1. Connecting any terminal to voltages greater than V^+ or less than GROUND may cause destructive latchup. It is recommended that no inputs from sources operating from external supplies be applied prior to "power up" of the ICL7660.

2. Derate linearly above 50°C by 5.5mW/°C.

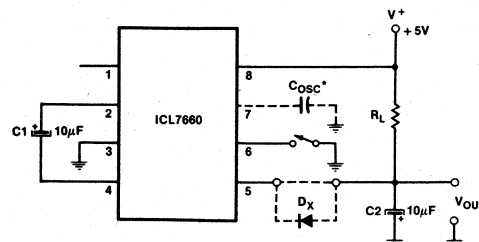
BLOCK DIAGRAM



PIN CONNECTION



TEST CIRCUIT



*Notes: 1. For large value of $C_{osc} (> 1000pF)$ the values of C_1 and C_2 should be increased to 100 μF .
2. D_x is required for supply voltages greater than 6.5V @ -55°C $< T_A < +70^\circ C$; refer to performance curves for additional information.

Test Circuit

ICL7660 276-2335

THEORETICAL POWER EFFICIENCY CONSIDERATIONS

In theory a voltage multiplier can approach 100% efficiency if certain conditions are met:

- The drive circuitry consumes minimal power
- The output switches have extremely low ON resistance and virtually no offset.
- The impedances of the pump and reservoir capacitors must be negligible at the pump frequency.

The ICL7660 approaches these conditions for negative voltage multiplication if large values of C1 and C2 are used. ENERGY IS LOST ONLY IN THE TRANSFER OF CHARGE BETWEEN CAPACITORS IF A CHANGE IN VOLTAGE OCCURS. The energy lost is defined by:

$$E = 1/2 C_1 (V_1^2 - V_2^2)$$

Where V_1 and V_2 are the voltages on C1 during the pump and transfer cycles. If the impedances of C1 and C2 are relatively high at the pump frequency (refer to Fig. 1) compared to the value of R_L , there will be a substantial difference in the voltages V_1 and V_2 . Therefore it is not only desirable to make C2 as large as possible to eliminate output voltage ripple, but also to employ a correspondingly large value for C1 in order to achieve maximum efficiency of operation.

DO'S AND DON'TS

- Do not exceed maximum supply voltages.
- Do not connect LV terminal to GROUND for supply voltages greater than 3.5 volts.
- Do not short circuit the output to V^+ supply for supply voltages above 5.5 volts for extended periods, however, transient conditions including startup are okay.
- When using polarized capacitors, the + terminal of C1 must be connected to pin 2 of the ICL7660 and the + terminal of C2 must be connected to GROUND.
- Add diode D_X as shown in the test circuit for hi-voltage, elevated temperature applications.

CONSIDERATIONS FOR HI VOLTAGE & ELEVATED TEMPERATURE

The ICL7660 will operate efficiently over its specified temperature range with only 2 external passive components (charge & pump capacitors), provided the operating supply voltage does not exceed 6.5 volts at $+70^\circ\text{C}$ and 5.0 volts at $+125^\circ\text{C}$. Exceeding these maximums at the temperatures indicated may result in destructive latch-up of the ICL7660. (Ref: Graph "Operating Voltage vs. Temperature")

Operation at supply voltages of up to 10.0 volts over the full temperature range without danger of latch-up can be achieved by adding a general purpose diode in series with the ICL7660 output, as shown by " D_X " in the circuit diagrams. The effect of this diode on overall circuit performance is the reduction of output voltage by one diode drop (approximately 0.6 volts).

TYPICAL APPLICATIONS

The majority of applications will undoubtedly utilize the ICL7660 for generation of negative supply voltages. Figure 2 shows typical connections to provide a negative supply where a positive supply is available. A similar scheme may be employed for supply voltages anywhere in the operating range of + 1.5V to + 10.0 volts, keeping in mind that pin 6 (LV) is tied to the supply negative (GND) only for supply voltages below 3.5 volts, and that diode D_X must be included for proper operation at higher voltages and/or elevated temperatures.

The output characteristics of the circuit in Figure 2 are those of a nearly ideal voltage source in series with 70 ohms. Thus for a load current of -10mA and a supply voltage of +5 volts, the output voltage will be -4.3 volts. The dynamic output impedance due to the capacitor impedances is $1/\omega C$ where:

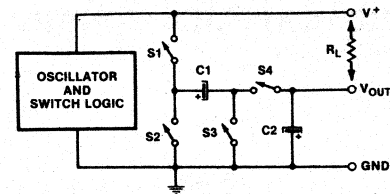
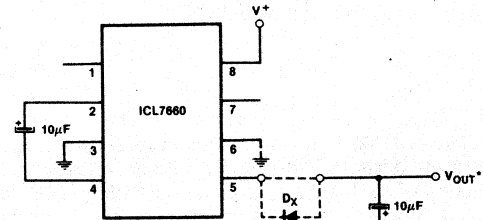


Figure 1—Idealized Voltage Doubler



*Note: 1. $V_{OUT} = -nV^+$ FOR $1.5V < V^+ < 6.5V$
2. $V_{OUT} = -n(V^+ - V_{FDX})$ FOR $6.5V < V^+ < 10V$

Figure 2—Simple Negative Converter

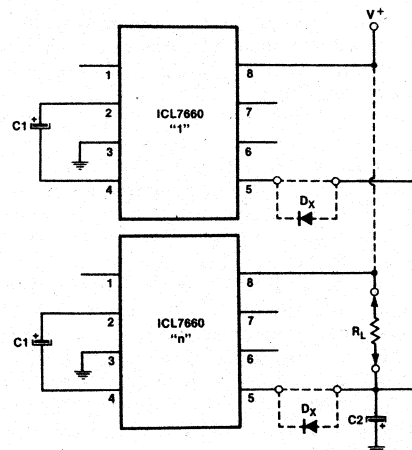
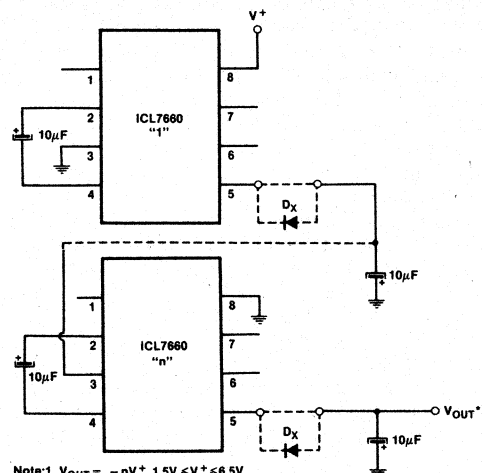


Figure 3—Paralleling Devices



Note: 1. $V_{OUT} = -nV^+$ $1.5V < V^+ < 6.5V$
2. $V_{OUT} = -n(V^+ - V_{FDX})$ FOR $6.5V < V^+ < 10.0V$

Figure 4—Cascading Devices for Increased Output Voltage

ICL7660 276-2335

TYPICAL APPLICATIONS (Cont'd)

$$C = C_1 = C_2$$

$$\text{giving } \frac{1}{\omega C} = \frac{1}{2\pi f_{OSC} \times 10^{-5}} = 3 \Omega$$

for $C = 10\mu F$ and $f_{OSC} = 5kHz$ ($\frac{1}{2}$ of oscillator frequency)

Any number of ICL7660 voltage converters may be paralleled (Fig. 3) to reduce output resistance. The reservoir capacitor, C_2 , serves all devices while each device requires its own pump capacitor, C_1 . The resultant output resistance would be approximately:

$$R_{OUT} = \frac{R_{OUT} \text{ (of ICL7660)}}{n \text{ (number of devices)}}$$

The ICL7660 may be cascaded as shown (Fig. 4) to produce larger negative multiplication of the initial supply voltage, however, due to the finite efficiency of each device, the practical limit is 10 devices for light loads. The output voltage is defined by:

$$V_{OUT} = -n(V_{IN}),$$

where n is an integer representing the number of devices cascaded. The resulting output resistance would be approximately the sum of the individual ICL7660 R_{OUT} s.

It may be desirable in some applications, due to noise or other considerations, to increase the oscillator frequency. This is achieved by overdriving the oscillator from an external clock, as shown in Figure 5. In order to prevent possible device latchup, a $1k\Omega$ resistor must be used in series with the clock output. In the situation where the designer has generated the external clock frequency using TTL logic, the addition of a $10k\Omega$ pullup resistor to V^+ supply is required. Note that the pump frequency with external clocking, as with internal clocking, will be $1/2$ of the clock frequency.

It is also possible to maximize the conversion efficiency of the ICL7660 by lowering the oscillator frequency. This is achieved by connecting an additional capacitor C_{OSC} as shown in Figure 6, however.

Lowering the oscillator frequency will necessitate an undesirable increase in the impedance of the pump (C_1) and reservoir (C_2) capacitors; this is overcome by increasing the values of C_1 and C_2 by the same factor that the frequency has been reduced. For example, the addition of a $100pF$ capacitor between pin 7 (Osc) and V^+ will lower the oscillator frequency to $1kHz$ from its nominal frequency of $10kHz$ (a multiple of 10), and thereby necessitate a corresponding increase in the value of C_1 and C_2 (from $10\mu F$ to $100\mu F$).

The ICL7660 may be employed to achieve positive voltage multiplication using the circuit shown in Figure 7. In this application, the pump inverter switches of the ICL7660 are used to charge C_1 to a voltage level of $V^+ - V_F$ (where V^+ is the supply voltage and V_F is the forward voltage drop of diode D_1). On the transfer cycle, the voltage on C_1 plus the supply voltage (V^+) is applied through diode D_2 to capacitor C_2 . The voltage thus created on C_2 becomes $(2V^+) - (2V_F)$ or twice the supply voltage minus the combined forward voltage drops of diodes D_1 and D_2 .

The source impedance of the output (V_{OUT}) will depend on the output current, but for $V^+ = 5$ volts and an output current of $10mA$ it will be approximately 60 ohms.

Figure 8 combines the functions shown in Figures 2 and 7 to provide negative voltage conversion and positive voltage multiplication simultaneously. This approach would be, for example, suitable for generating $+9$ volts and -5 volts from an existing $+5$ volt supply. In this instance capacitors C_1 and C_3 perform the pump and reservoir functions respectively for the generation of the negative voltage, while capacitors C_2 and C_4 are pump and reservoir respectively for the multiplied positive voltage. There is a penalty in this configuration which combines both functions, however, in that the source impedances of the generated supplies will be somewhat higher due to the finite impedance of the common charge pump driver at pin 2 of the device.

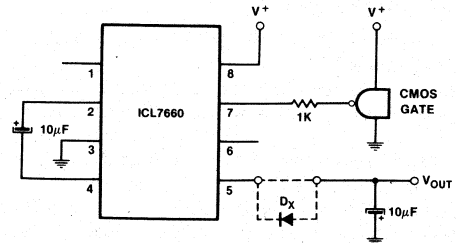


Figure 5—External Clocking

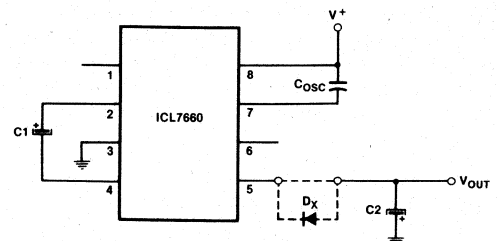
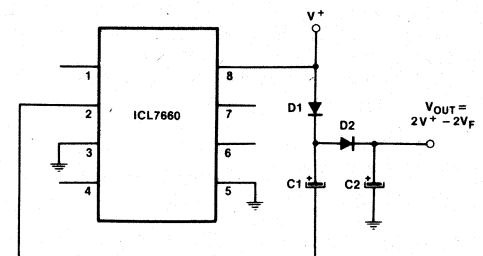


Figure 6—Lowering Oscillator Frequency



Note: D_1 & D_2 can be any suitable diode.

Figure 7—Positive Voltage Multiplier

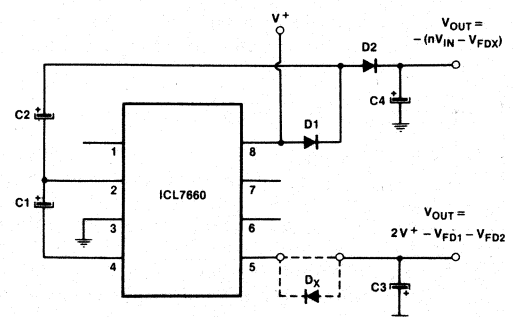
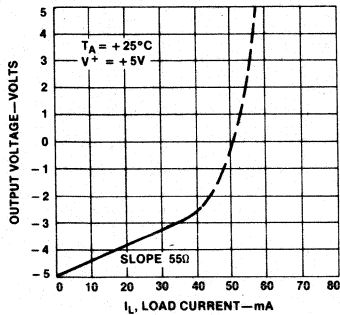
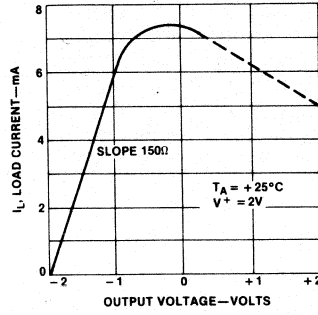


Figure 8—Combining Negative Converter and Positive Multiplier

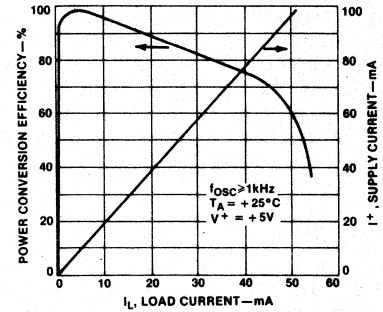
TYPICAL CHARACTERISTICS



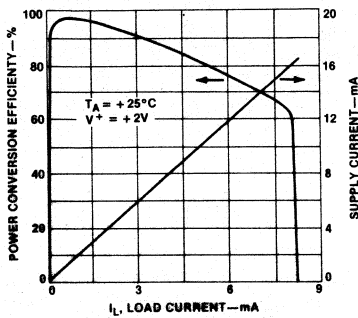
Output Voltage
vs Load Current



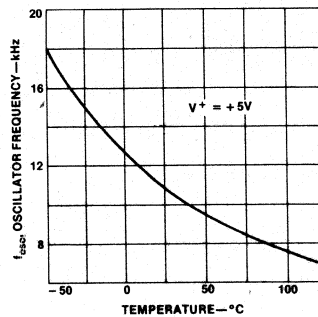
Output Voltage
vs Load Current



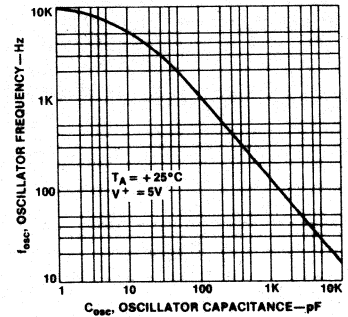
Power Conversion Efficiency
vs Load Current



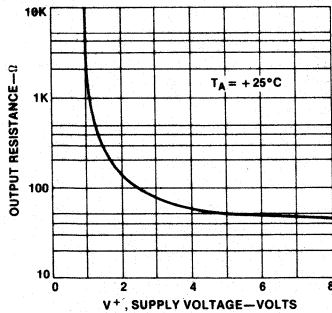
Power Conversion Efficiency
vs Load Current



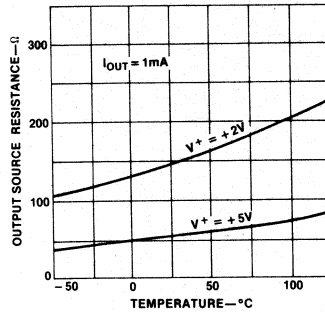
Oscillation Frequency
vs Temperature



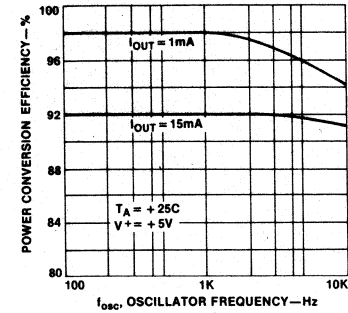
Oscillation Frequency vs
External Oscillation Capacitance



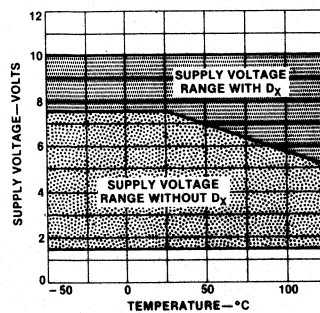
Output Source Resistance
vs Supply Voltage



Output Source Resistance
vs Temperature



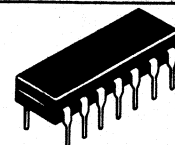
Power Conversion Efficiency
vs Oscillation Frequency



Supply Voltage
vs Temperature

ICL8038
276-2334

PRECISION WAVEFORM GENERATOR/ VOLTAGE CONTROLLED OSCILLATOR



GENERAL DESCRIPTION

The ICL8038 waveform generator is a monolithic integrated circuit capable of producing high accuracy sine, square, triangular, sawtooth and pulse waveforms with a minimum of external components. The frequency (or repetition rate) can be selected externally from 0.001Hz to more than 300kHz using either resistors or capacitors, and frequency modulation and sweeping can be accomplished with an external voltage. The ICL8038 is fabricated with advanced monolithic technology, using Schottky-barrier diodes and thin film resistors, and the output is stable over a wide range of temperature and supply variations.

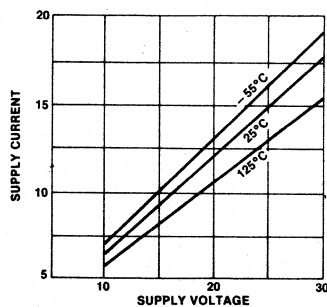
FEATURES

- Low frequency drift with temperature — 50ppm/°C
- Simultaneous sine, square, and triangle wave outputs
- Low distortion — 1% (sine wave output)
- High linearity — 0.1% (triangle wave output)
- Wide operating frequency range — 0.001Hz to 0.3MHz
- Variable duty cycle — 2% to 98%
- High level outputs — TTL to 28 V
- Easy to use — just a handful of external components required

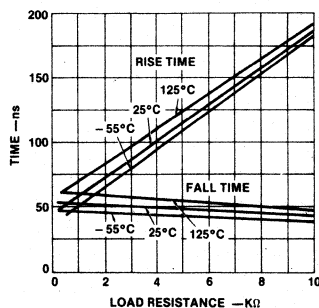
ABSOLUTE MAXIMUM RATINGS

Supply Voltage ± 18 V or 36 V Total
Power Dissipation 750 mW
Input Voltage (any pin) Not To Exceed Supply Voltages
Input Current (Pins 4 and 5) 25 mA
Output Sink Current (Pins 3 and 9) 25 mA
Storage Temperature Range -65°C to +125°C
Lead Temperature (Soldering, 10 sec.) 300°C

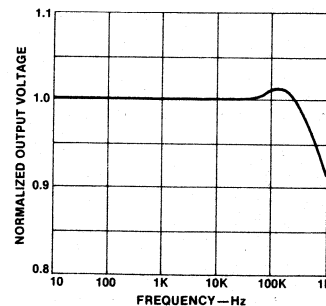
TYPICAL CHARACTERISTICS



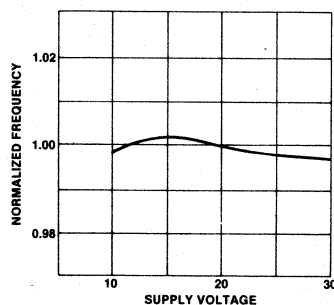
Supply Current
vs Supply Voltage



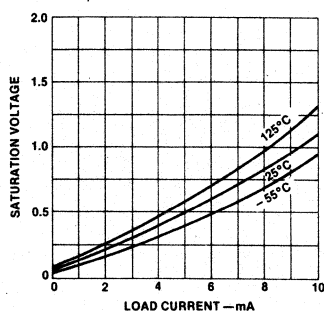
Time vs
Load Resistance



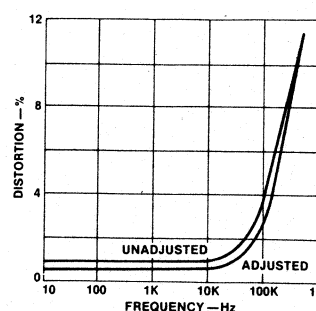
Normalized Output Voltage
vs Frequency



Normalized Frequency
vs Supply Voltage



Saturation Voltage
vs Load Current

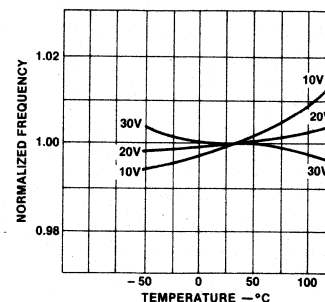
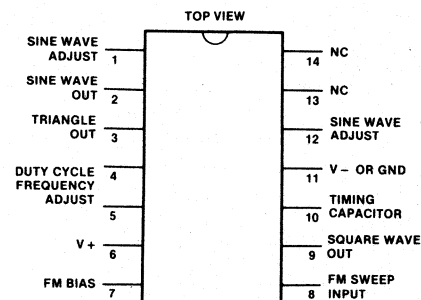


Distortion vs
Frequency

Performance of the Square-Wave Output

Performance of the Sine-Wave Output

PIN CONNECTION

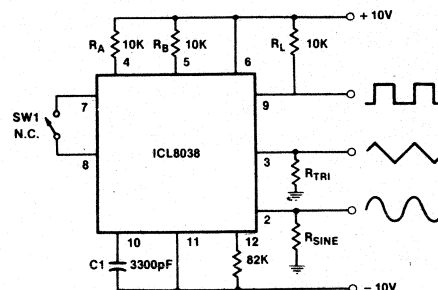


Normalized Frequency
vs Temperature

Selecting R_A , R_B AND C

$$I = \frac{R_1 \times V_{\text{SUPPLY}}}{(R_1 + R_2)} \times \frac{1}{R_A} = \frac{V_{\text{SUPPLY}}}{5R_A}$$

The capacitor value should be chosen at the upper end of its possible range.

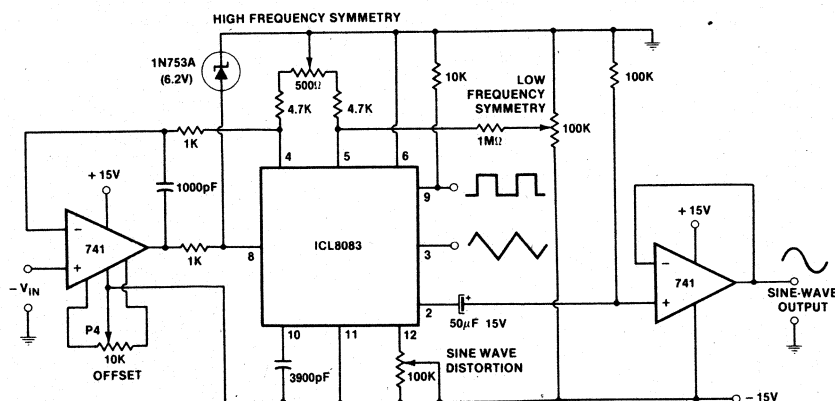


Test Circuit

[illegible]

Sine Wave Output Buffer Amplifier

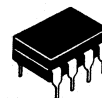
Strobe-Tone Burst Generator



Linear Voltage Controlled Oscillator

276-1717

OVERVOLTAGE-SENSING CIRCUIT



GENERAL DESCRIPTION

These overvoltage-sensing circuits are designed to protect sensitive electronic circuitry by monitoring the supply rail and triggering an external “crowbar” SCR in the event of a voltage transient or loss of regulation. The protective mechanism may be activated by an overvoltage condition at the Sense 2 input or by application of a TTL high level to the remote activate terminal. Separate outputs are available to trigger the crowbar circuit and to provide a logic pulse to indicator or power supply control circuitry. The Sense 2 input provides a direct control of the output circuitry. The Sense 1 input controls an internal current source that may be utilized to implement a delayed trigger by connecting its output to an external capacitor and the Sense 2 input. This protects against false triggering due to noise at the Sense 1 input.

FEATURES

- Separate outputs for “crowbar” and logic circuitry
- Programmable time delay to eliminate noise triggering
- TTL-level activation isolated from voltage-sensing inputs
- 2.6-volt internal voltage reference with temperature coefficient typically 0.08%/°C

ABSOLUTE MAXIMUM RATINGS

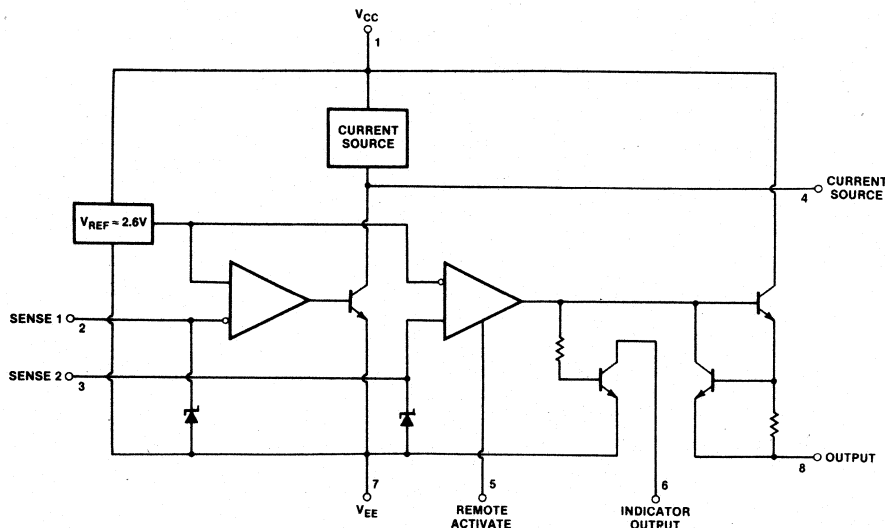
Supply Voltage, V_{CC} (See Note 1)	40 V
Sense 1 Voltage	6.5 V
Sense 2 Voltage	6.5 V
Remote Activate Input Voltage	7 V
Output Current, I_O	300 mA
Continuous Dissipation at (or below) 25°C Free-Air Temperature	1000 mW
Operating Free-Air Temperature Range	0 to 70°C
Storage Temperature Range	-65 to 150°C

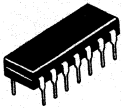
NOTES: 1. Voltage values are measured with respect to the V_{EE} terminal.

RECOMMENDED OPERATING CONDITIONS

	MIN	MAX	UNIT
Supply Voltage, V_{CC}	4.5	40	V
High-Level Input Voltage, Remote Activate Input	2		V
Low-Level Input Voltage, Remote Activate Input		0.5	V

BLOCK DIAGRAM





QUAD COMPARATOR

339
276-1712

GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

FEATURES

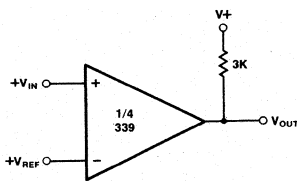
- Wide single supply:
Voltage range $2 V_{DC}$ to $32 V_{DC}$ or dual supplies $\pm 1 V_{DC}$ to $\pm 16 V_{DC}$
- Very low supply current drain (0.8 mA)—independent of supply voltage (1 mW/comparator at $+5 V_{DC}$)
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at $5 \mu A$; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

ABSOLUTE MAXIMUM RATINGS

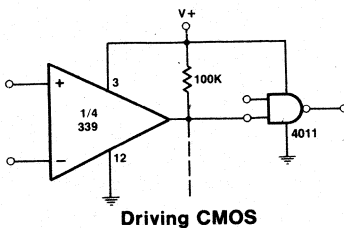
Supply Voltage, V^+	$32 V_{DC}$ or $\pm 16 V_{DC}$
Differential Input Voltage	$36 V_{DC}$
Input Voltage	$-0.3 V_{DC}$ to $+36 V_{DC}$
Power Dissipation	
Molded DIP	570 mW
Cavity DIP	900 mW
Output Short-Circuit to GND	Continuous
Input Current ($V_{IN} < -0.3 V_{DC}$)	50 mA
Operating Temperature Range	0 to $+70^\circ C$
Storage Temperature Range	-65 to $+150^\circ C$
Lead Temperature (Soldering, 10 seconds)	$300^\circ C$

TYPICAL APPLICATIONS

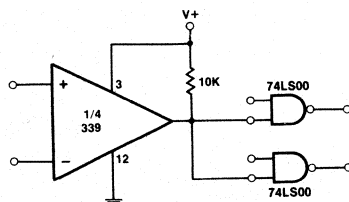
5 VOLT GROUP



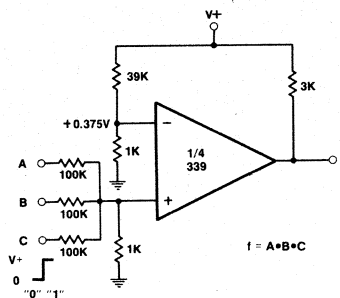
Basic Comparator



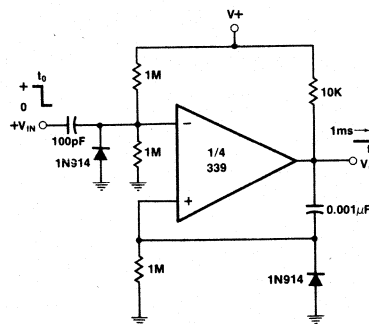
Driving CMOS



Driving TTL

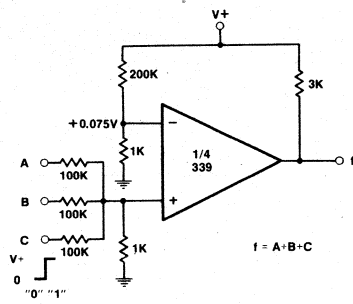


AND Gate

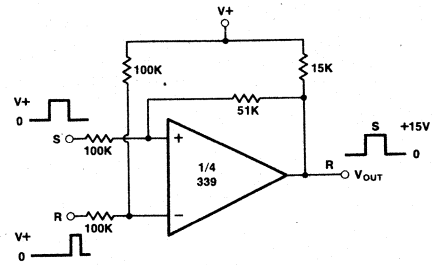


One-Shot Multivibrator

15V GROUP

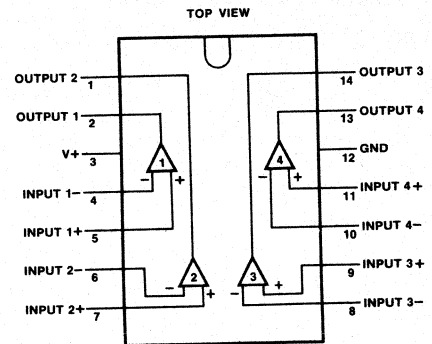


OR Gate

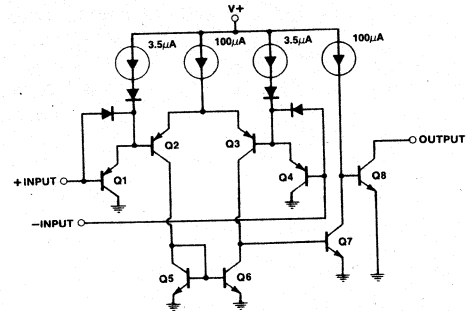


Bi-Stable Multivibrator

PIN CONNECTION

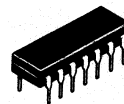


INTERNAL CIRCUIT



565
276-1720

PHASE LOCKED LOOP



GENERAL DESCRIPTION

The 565 phase-locked loop (PLL) is a self-contained, adaptable filter and demodulator for the frequency range from 0.001 Hz to 500kHz. The circuit comprises a voltage-controlled oscillator of exceptional stability and linearity, a phase comparator, an amplifier and a low-pass filter as shown in the block diagram. The center frequency of the PLL is determined by the free-running frequency of the VCO; this frequency can be adjusted externally with a resistor or a capacitor. The low-pass filter, which determines the capture characteristics of the loop, is formed by an internal resistor and an external capacitor.

FEATURES

- Highly stable center frequency (200ppm/°C typ.)
- Wide operating voltage range (± 6 to ± 12 volts)
- Highly linear demodulated output (0.2% typ.)
- Center frequency programming by means of a resistor or capacitor, voltage or current
- TTL and LS compatible square-wave output; loop can be opened to insert digital frequency divider.
- Highly linear triangle wave output
- Reference output for connection of comparator in frequency discriminator
- Bandwidth adjustable from $< \pm 1\%$ to $> \pm 60\%$
- Frequency adjustable over 10 to 1 range with same capacitor

APPLICATIONS

- Frequency shift keying
- Modems
- Telemetry receivers
- Tone decoders
- SCA receivers
- Wideband FM discriminators
- Data synchronizers
- Tracking filters
- Signal restoration
- Frequency multiplication & division

ABSOLUTE MAXIMUM RATINGS

Maximum operating voltage	$\pm 12V$
Input voltage	$\pm 3V_{p-p}$
Power dissipation	300mW
Operating temperature range	0 to $+70^{\circ}C$
Storage temperature	-65 to $+150^{\circ}C$

DESIGN FORMULAS (See Figure 1, Page 100)

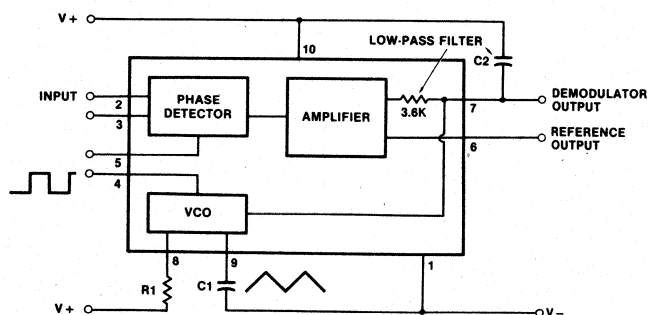
Free-running frequency of VCO: $f_o \approx \frac{1.2}{4R1C1}$ in Hz

Lock-range $f_L = \pm \frac{8f_o}{V_{CC}}$ in Hz

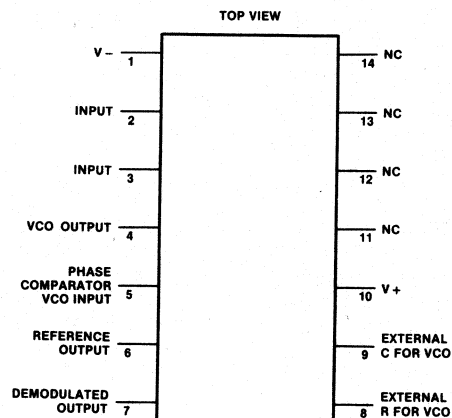
Capture-range: $f_C \approx \pm \frac{1}{2\pi} \sqrt{\frac{2\pi f_L}{\tau}}$

where $\tau = (3.6 \times 10^3) \times C2$

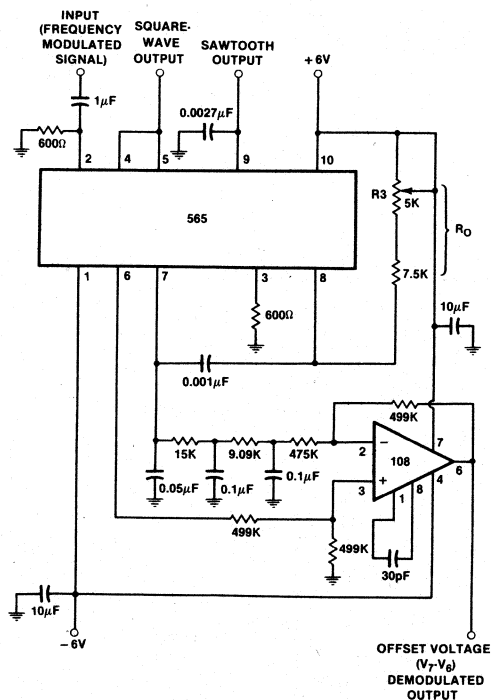
BLOCK DIAGRAM



PIN CONNECTION



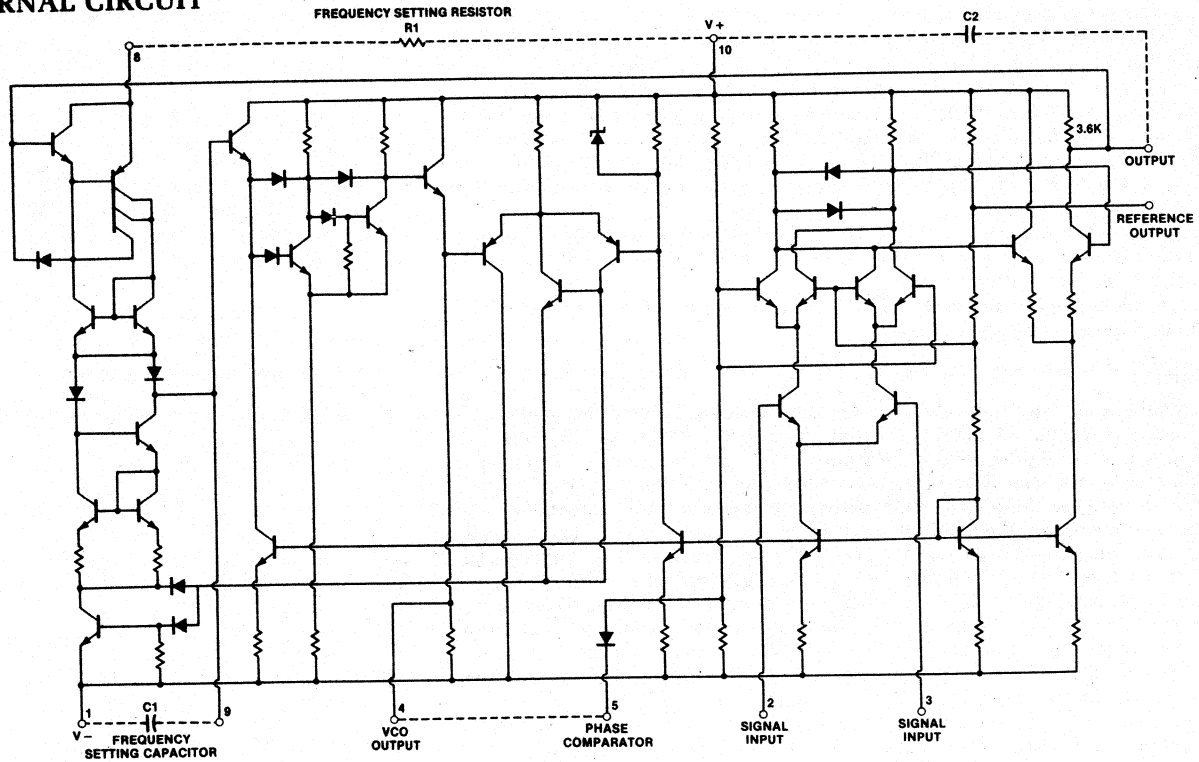
TEST CIRCUIT



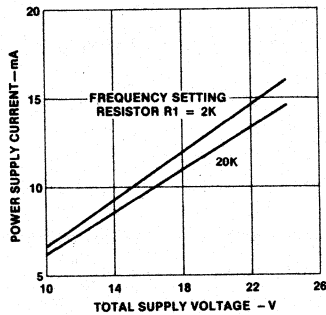
Test Circuit

565 276-1720

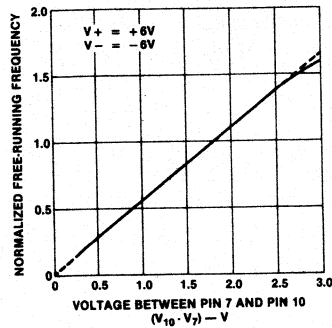
INTERNAL CIRCUIT



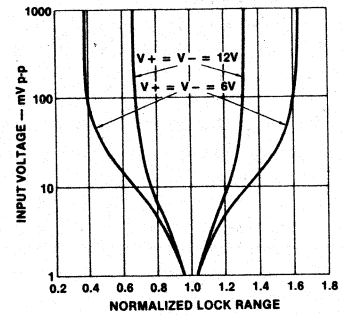
TYPICAL CHARACTERISTICS



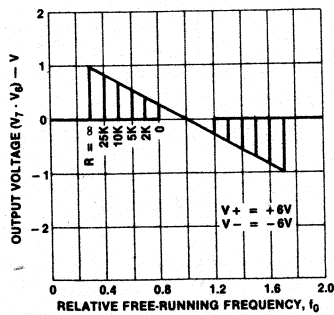
Power Supply Current vs
Total Supply Voltage



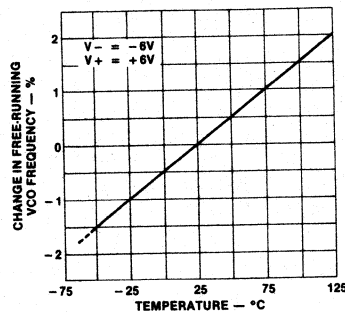
Normalized Free Running Frequency vs
Voltage Between Pin 7 and Pin 10



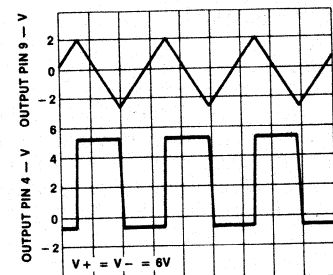
Input Voltage vs
Normalized Lock Range



Output Voltage vs
Relative Free-Running Frequency



Change in Free-Running VCO Frequency
vs Temperature



VCO Output Waveform

565 276-1720

TYPICAL APPLICATIONS

FM Demodulation

The 565 Phase Locked Loop is a general purpose circuit designed for highly linear FM demodulation. During lock, the average dc level of the phase comparator output signal is directly proportional to the frequency of the input signal. As the input frequency shifts, it is this output signal which causes the VCO to shift its frequency to match that of the input. Consequently, the linearity of the phase comparator output with frequency is determined by the voltage-to-frequency transfer function of the VCO.

Because of its unique and highly linear VCO, the 565 PLL can lock to and track an input signal over a very wide bandwidth (typically $\pm 60\%$) with very high linearity (typically, within 0.5%).

A typical connection diagram is shown in Figure 1. The VCO free-running frequency is given approximately by

$$f_o = \frac{1.2}{4R1C1}$$

and should be adjusted to be at the center of the input signal frequency range. C1 can be any value, but R1 should be within the range of 2000 to 20,000 ohms with an optimum value on the order of 4000 ohms. The source can be direct coupled if the dc resistances seen from pins 2 and 3 are equal and there is no dc voltage difference between the pins. A short between pins 4 and 5 connects the VCO to the phase comparator. Pin 6 provides a dc reference voltage that is close to the dc potential of the demodulated output (pin 7). Thus, if a resistance is connected between pins 6 and 7, the gain of the output stage can be reduced with little change in the dc voltage level at the output. This allows the lock range to be decreased with little change in the free-running frequency. In this manner the lock range can be decreased from $\pm 60\%$ of f_o to approximately $\pm 20\%$ of f_o (at $\pm 6V$).

A small capacitor (typically $0.001 \mu F$) should be connected between pins 7 and 8 to eliminate possible oscillation in the control current source.

A single-pole loop filter is formed by the capacitor C2, connected between pin 7 and the positive supply, and an internal resistance of approximately 3600 ohms.

Frequency Shift Keying (FSK)

FSK refers to data transmission by means of a carrier which is shifted between two preset frequencies. This frequency shift is usually accomplished by driving a VCO with the binary data signal so that the two resulting frequencies correspond to the "0" and "1" states (commonly called space and mark) of the binary data signal.

SCA (Background Music) Decoder

Some FM stations are authorized by the FCC to broadcast uninterrupted background music for commercial use. To do this a frequency modulated subcarrier of 67kHz is used. The frequency is chosen so as not to interfere with the normal stereo or monaural program; in addition, the level of the subcarrier is only 10% of the amplitude of the combined signal.

The SCA signal can be filtered out and demodulated with the 565 Phase Locked Loop without the use of any resonant circuits.

A resistive voltage divider is used to establish a bias voltage for the input (pins 2 and 3). The demodulated (multiplex) FM signal is fed to the input through a two-stage high-pass filter, both to effect capacitive coupling and to attenuate the strong signal of the regular channel. A total signal amplitude, between 80mV and 300mV, is required at the input. Its source should have an impedance of less than 10,000 ohms.

The Phase Locked Loop is tuned to 67kHz with a 5000 ohm potentiometer, only approximate tuning is required, since the loop will seek the signal.

The demodulated output (pin 7) passes through a three-stage low-pass filter to provide de-emphasis and attenuate the high-frequency noise which often accompanies SCA transmission. Note that no capacitor is provided directly at pin 7; thus, the circuit is operating as a first-order loop. The demodulated output signal is in the order of 50mV and the frequency response extends to 7kHz.

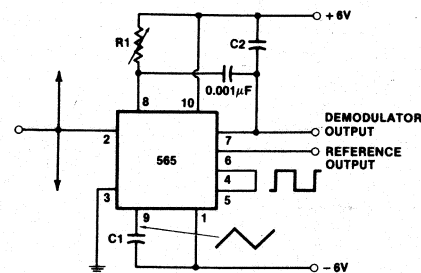


Figure 1 — FM Demodulation

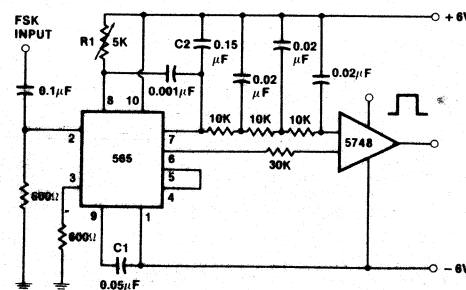


Figure 2 — Frequency Shift Keying (FSK)

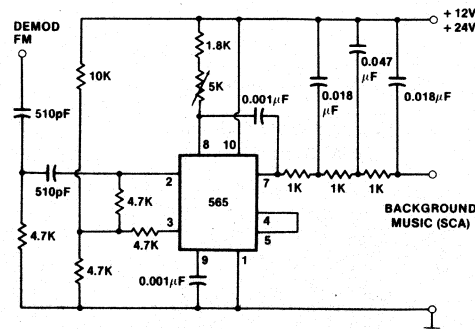
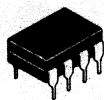


Figure 3 — SCA Decoder



567

276-1721

GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the passband. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

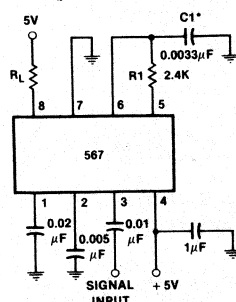
APPLICATIONS

- Touch tone decoding
- Precision oscillator
- Frequency monitoring and control
- Wide band FSK demodulation
- Ultrasonic controls
- Carrier current remote controls
- Communications paging decoders

ABSOLUTE MAXIMUM RATINGS

Supply Voltage	9V
Power Dissipation	300 mW
V _B (Output Voltage)	15V
V ₃ (- Voltage at Input)	-10V
V ₃ (+ Voltage at Input)	V _B + 0.5V
Operating Temperature	0 to +70°C
Storage Temperature Range	-65 to +150°C

TYPICAL APPLICATIONS



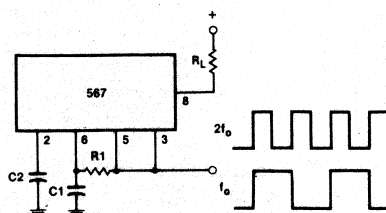
*Note: Adjust for $f_o = 100\text{kHz}$.
 $f_i = 100\text{kHz} + 5V$

The center frequency of the tone decoder is equal to the free-running frequency of the VCO.
This is given by $f_o \approx 1/R_1C_1$
The band width of the filter may be found from the approximation

$$BW = 1070 \sqrt{\frac{V_{IN}}{f_o C_2}} \text{ in } \% \text{ of } f_o$$

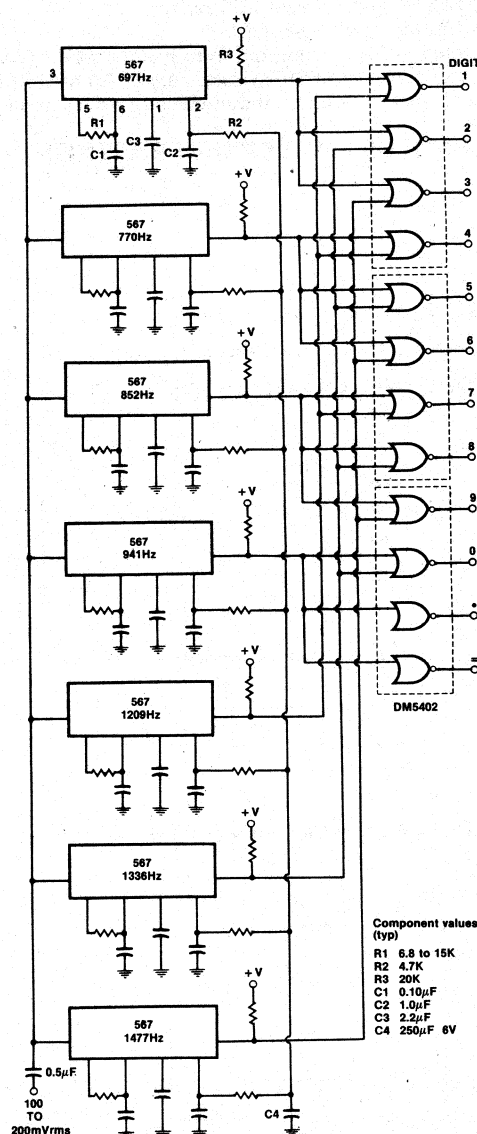
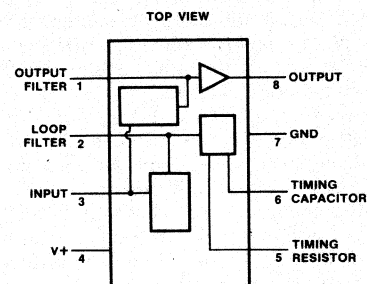
Where: V_{IN} = Input voltage (volts rms), $V_{IN} < 200\text{mV}$.
 C_2 = Capacitance at pin 2 in μF .

AC Test Circuit



Oscillator with Double Frequency Output

PIN CONNECTION

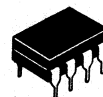


Component values (typ)
R1 6.8 to 15K
R2 4.7K
R3 20K
C1 0.10 μF
C2 1.0 μF
C3 2.2 μF
C4 250 μF 6V

Touch-Tone Decoder

3909
276-1705

LED FLASHER/OSCILLATOR



GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash light emitting diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example -20% to +100%.

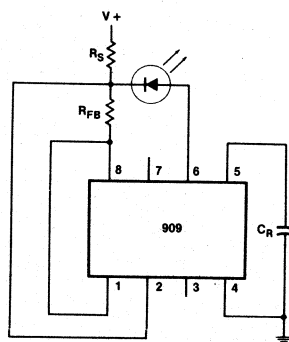
FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful; as an oscillator directly drives an 8Ω speaker

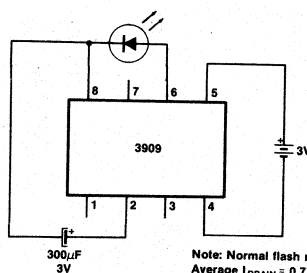
ABSOLUTE MAXIMUM RATINGS

Power Dissipation.....	500 mW
V+ Voltage	6.4V
Pulse Width	6 ms
Peak LED Current	45 mA
Operating Current	75 mA
Flash Frequency.....	1.3 Hz
High Flash Frequency.....	1.1 kHz
Operating Temperature Range	-25 to +70°C

TYPICAL APPLICATIONS

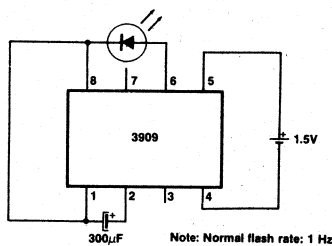


Warning Flasher High Voltage Powered



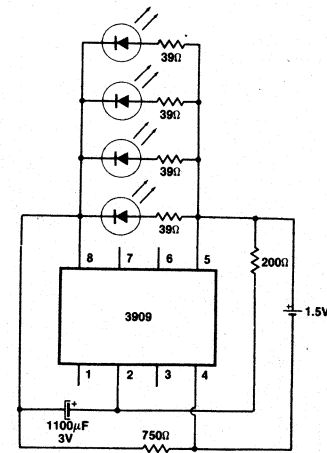
3V Flasher

Note: Normal flash rate: 1Hz.
Average $I_{DRAIN} = 0.77mA$



1.5V Flasher

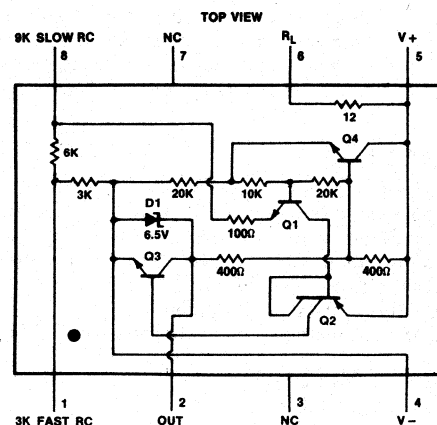
Note: Normal flash rate: 1 Hz



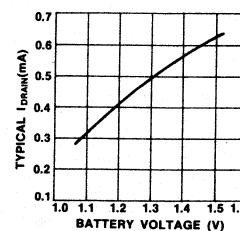
Parallel LED's

Nominal flash rate: 1.3Hz Average $I_{DRAIN} = 2mA$

PIN CONNECTION



TYPICAL CHARACTERISTICS



Drain Current vs
Battery Voltage

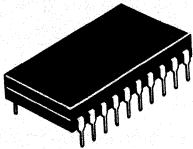
ESTIMATED BATTERY LIFE
(CONTINUOUS 1.5V FLASHER OPERATION)

SIZE CELL	TYPE	
	STANDARD	ALKALINE
AA	3 MONTHS	6 MONTHS
C	7 MONTHS	15 MONTHS
D	1.3 YEARS	2.6 YEARS

Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or "leak-proof" batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

TYPICAL OPERATING CONDITIONS

V+	NORMAL FLASH Hz	C _T	R _S 1W	R _{FB}	V+ RANGE
6V	2	400μF	1K	1.5K	5-25V
15V	2	180μF	3.9K	1K	13-50V
100V	1.7	180μF	43K	1K	85-200V



8-BIT MICROPROCESSOR COMPATIBLE A/D CONVERTER

ADC0801
276-1792

GENERAL DESCRIPTION

The ADC0801 is a CMOS 8-bit successive approximation A/D converter which uses a modified potentiometric ladder, and is designed to operate with the 8080A control bus via three-state outputs. This converter appears to the processor as memory locations or I/O ports, hence no interfacing logic is required.

The differential analog voltage input has good common-mode-rejection, and permits offsetting the analog zero-input-voltage value. In addition, the voltage reference input can be adjusted to allow encoding any smaller analog voltage span to the full 8 bits of resolution.

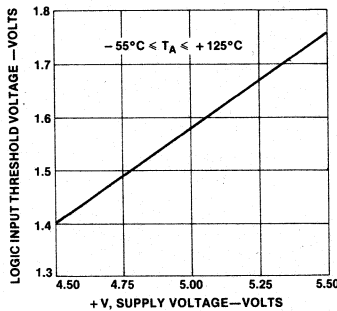
FEATURES

- MCS-48 and MCS-80/85 bus compatible — no interfacing logic required
- Conversion time < 100 μ s
- Easy interface to all microprocessors
- Will operate "stand alone"
- Differential analog voltage inputs
- Works with bandgap voltage references
- TTL compatible inputs and outputs
- On-chip clock generator
- 0 to 5 V analog voltage input range (single +5 V supply)
- No zero-adjust required

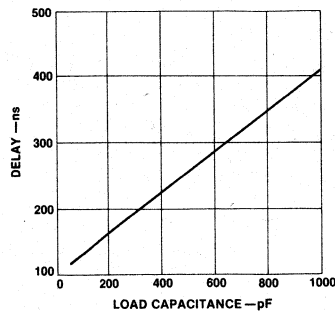
ABSOLUTE MAXIMUM RATINGS

Supply Voltage	6.5 V
Voltage at Any Input	-0.3 to +0.3 V
Storage Temperature Range	-65 to +150°C
Package Dissipation at $T_A = +25^\circ\text{C}$	875 mW
Lead Temperature (Soldering, 10 seconds)	300°C

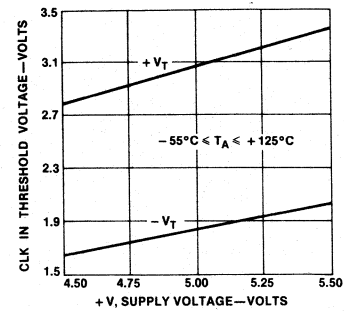
TYPICAL CHARACTERISTICS



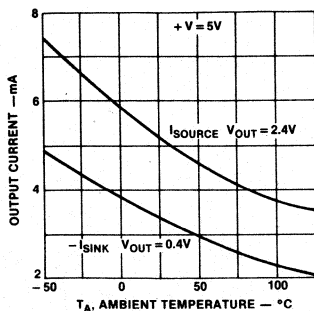
Logic Input Threshold Voltage
vs Supply Voltage



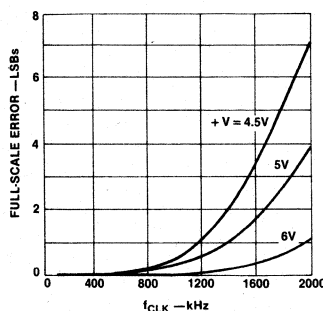
Delay from Falling Edge of RD
to Output Data Valid vs
Load Capacitance



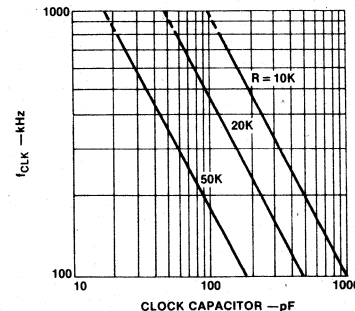
CLK IN Schmitt Trip Levels
vs Supply Voltage



Output Current vs
Ambient Temperature

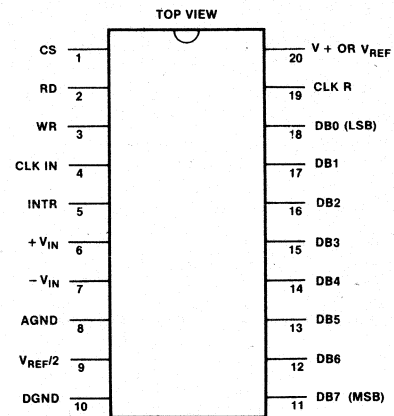


Full-Scale Error vs
Clock Frequency



Clock Frequency vs
Clock Capacitor

PIN CONNECTION

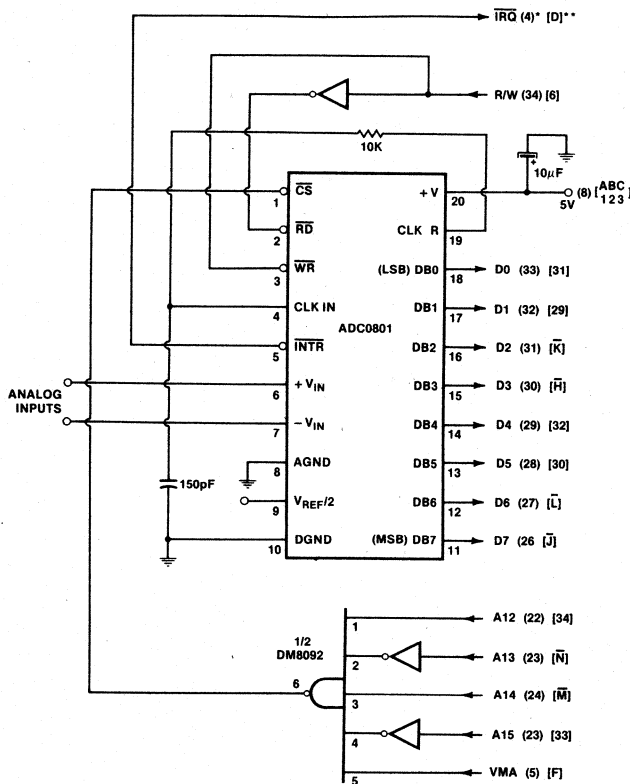


ADC0801 276-1792

TYPICAL APPLICATIONS

Interfacing MCS-48 and MSC-80/85 Processors

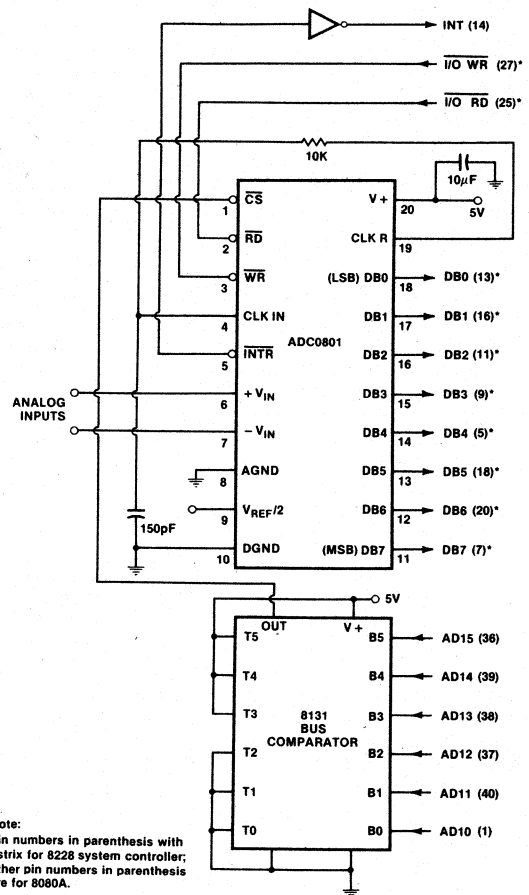
This converter has been designed to directly interface with an MCS-80/85 microprocessor or system. The 3-state output capability of the A/D eliminates the need for a peripheral interface device, although address decoding is still required to generate the appropriate $\overline{\text{CS}}$ for the converter. The A/D can be mapped into memory space (using standard memory-address decoding for $\overline{\text{CS}}$ and the $\overline{\text{MEMR}}$ and $\overline{\text{MEMW}}$ strobes) or it can be controlled as an I/O device by using the $\overline{\text{I/O R}}$ and $\overline{\text{I/O W}}$ strobes and decoding the address bits A0 - A7 (or address bits A8 - A15, since they will contain the same 8-bit address information) to obtain the $\overline{\text{CS}}$ input. Using the I/O space provides 256 additional addresses and may allow a simpler 8-bit address decoder, but the data can only be input to the accumulator. To make use of the additional memory reference instructions, the A/D should be mapped into memory space.



*Note: Numbers in parenthesis refer to MC6800 CPU pin out.

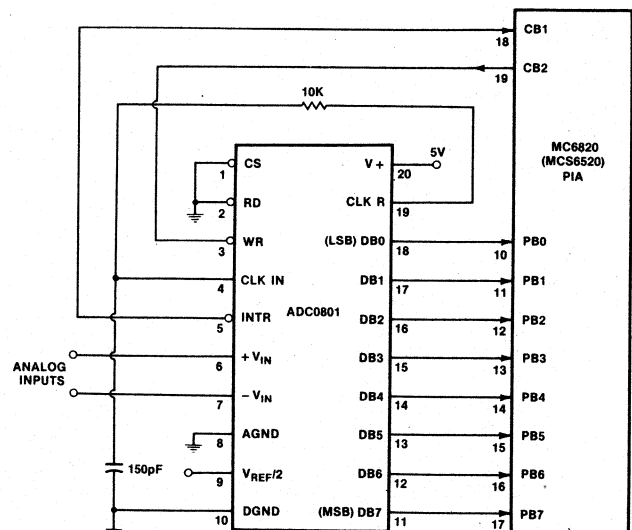
** Note: Numbers and letters in brackets refer to standard MC6800 system common bus code.

ADC0801 to MC6800 CPU Interface



Note:
Pin numbers in parenthesis with
astrix for 8228 system controller
other pin numbers in parenthesis
are for 8080A.

ADC0801 to 8080A CPU Interface



ADC0801 to MC6820 PIA Interface

LOW VOLTAGE REFERENCE

ICL8069

276-1793

GENERAL DESCRIPTION

The ICL8069 is a 1.2 V temperature compensated voltage reference. It uses the band-gap principal to achieve excellent stability and low noise at reverse currents down to 50 μ A. Applications include analog-to-digital converters, digital-to-analog converters, threshold detectors, and voltage regulators. Its low power consumption makes it especially suitable for battery operated equipment.

FEATURES

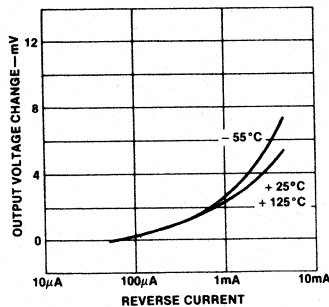
- Temperature coefficients guaranteed to 10 ppm/ $^{\circ}$ C max.
- Low bias current ... 50 μ A min
- Low dynamic impedance
- Low reverse voltage
- Low cost

ABSOLUTE MAXIMUM RATINGS

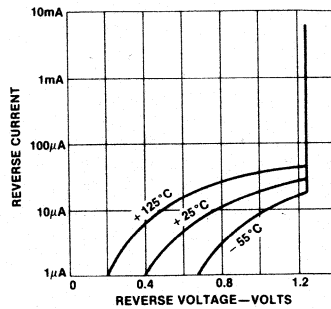
Reverse Voltage (See Note 1) 1.25 V
 Forward Current 10 mA
 Reverse Current 10 mA
 Power Dissipation Limited by max forward/reverse current
 Storage Temperature - 65 to + 200 $^{\circ}$ C
 Operating Temperature 0 to + 70 $^{\circ}$ C

- (1) In normal use, the reverse voltage cannot exceed the reference voltage. However when plugging units into a powered-up test fixture, an instantaneous voltage equal to the compliance of the test circuit will be seen. This should not exceed 20 V.
- (2) The diode should not be operated with shunt capacitances between 200pF and 0.22 μ F, as it may oscillate at some currents. If circuit strays in excess of 200pF are anticipated, a 4.7 μ F shunt capacitor will ensure stability under all operating conditions.

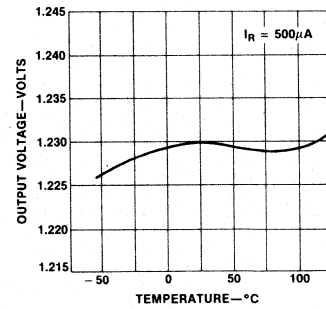
TYPICAL CHARACTERISTICS



Output Voltage Change vs Reverse Current

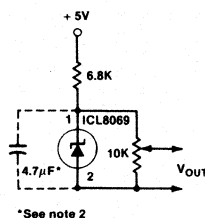


Reverse Current vs Reverse Voltage

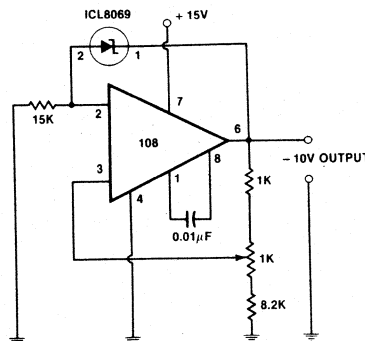


Output Voltage vs Temperature

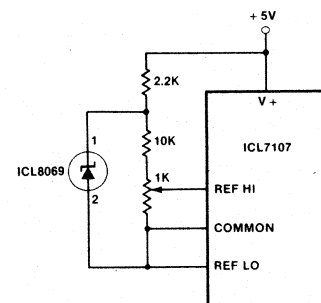
TYPICAL APPLICATIONS



Simple Reference
(1.2 volts or less)

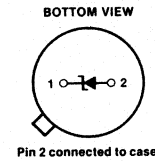


Buffered 10 V Reference
Using a Single Supply



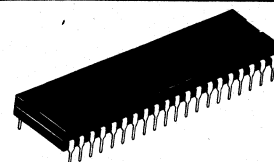
Double Regulated 100 mV Reference
for ICL7107 One-Chip DPM Circuit

PIN CONNECTION



AY-3-1015
276-1794

UNIVERSAL ASYNCHRONOUS RECEIVER/TRANSMITTER



GENERAL DESCRIPTION

The Universal Asynchronous Receiver/Transmitter (UAR/T) is an LSI sub-system which accepts binary characters from either a terminal device or a computer and receives/transmits this character with appended control and error detecting bits. All characters contain a start bit, 5 to 8 data bits, one or two stop bits and either odd/even parity or no parity. In order to make the UAR/T universal, the baud, bits per word, parity mode, and the number of stop bits are externally selectable. The device is constructed on a single monolithic chip. All inputs and outputs are directly compatible with MTOS/MTNS logic, and also with TTL/DTL/CMOS logic without the need for interfacing components. All strobed outputs are three-state logic.

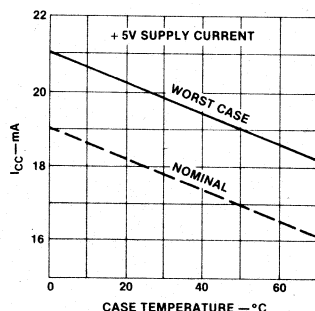
FEATURES

- DTL and TTL compatible — no interfacing circuits required — drives one TTL load
- Fully Double Buffered — eliminates need for system synchronization, facilitates high-speed operation
- Full Duplex Operation — can handle multiple bauds (receiving-transmitting) simultaneously
- Start Bit Verification — decreases error rate with center sampling
- Receiver center sampling of serial input; 48% distortion immunity
- High Speed Operation
- Three-State Outputs — bus structure capability
- Low Power — minimum power requirements
- Input Protected — eliminates handling problems
- GIANT P-channel nitride process
- 0 to 40kbaud
- Pull up resistors to V_{CC} on all inputs

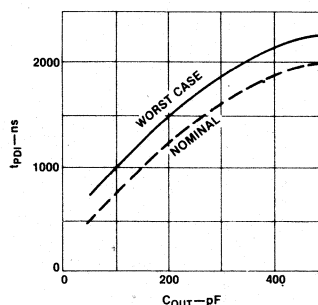
ABSOLUTE MAXIMUM RATINGS

V_{CC} (with respect to V_{CC}) - 20 to + 0.3 V
Clock and logic input voltages (with respect to V_{CC}) - 20 to + 0.3 V
Lead Temperature (soldering, 10 seconds) + 330°C
Storage Temperature - 65°C to + 150°C

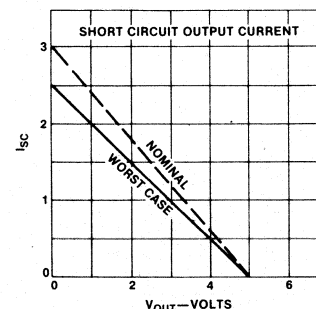
TYPICAL CHARACTERISTICS



5 V Supply Current vs
Case Temperature

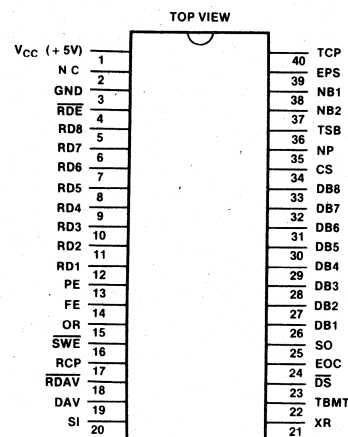


Delay Time vs
Output Capacitance



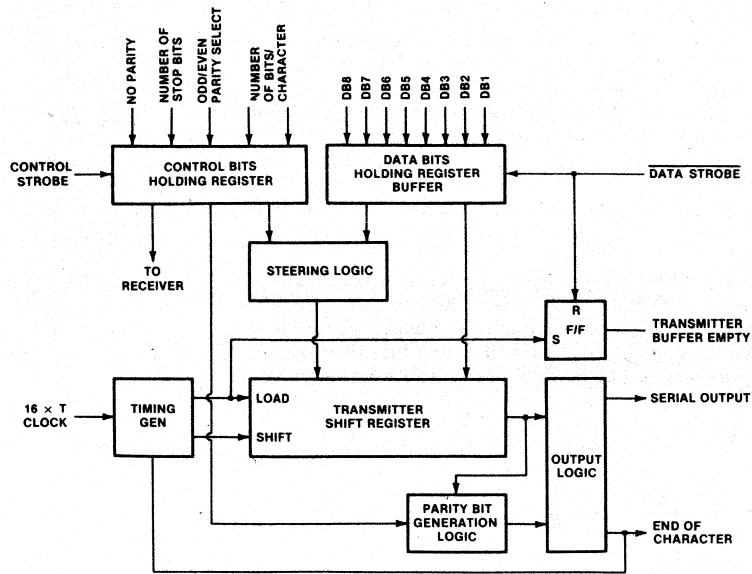
Short Circuit Output Current
vs Output Voltage

PIN CONNECTION

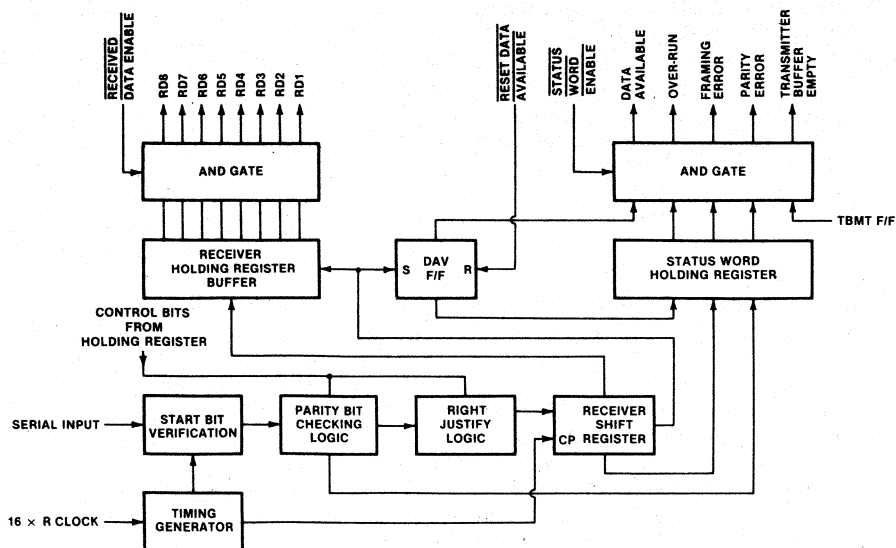


PIN	ABBREVIATION	DESCRIPTION
1	V_{CC}	POWER SUPPLY
2	NC	
3	GND	GROUND
4	RDE	RECEIVED DATA ENABLE
5-12	RD8-RD1	RECEIVED DATA BITS
13	PE	PARITY ERROR
14	FE	FRAMING ERROR
15	OR	OVER-RUN
16	SWE	STATUS WORD ENABLE
17	RCP	RECEIVER CLOCK
18	RDAV	RESET DATA AVAILABLE
19	DAV	DATA AVAILABLE
20	SI	SERIAL INPUT
21	XR	EXTERNAL RESET
22	TBM	TRANSMITTER BUFFER EMPTY
23	DS	DATA STROBE
24	EOC	END OF CHARACTER
25	SO	SERIAL OUTPUT
26-33	DB1-DB8	DATA BIT INPUTS
34	CS	CONTROL STROBE
35	NP	NO PARITY
36	TSB	NUMBER OF STOP BITS
37-38	NB2,NB1	NUMBER OF BITS/CHARACTER
39	EPS	ODD/EVEN PARITY SELECT
40	TCP	TRANSMITTER CLOCK

TRANSMITTER BLOCK DIAGRAM



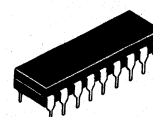
RECEIVER BLOCK DIAGRAM



AY-5-8116

276-1795

DUAL BAUD RATE GENERATOR



GENERAL DESCRIPTION

The AY-5-8116 is a very versatile Dual Baud Rate Generator.

This device is designed to generate the full spectrum of 16 asynchronous/synchronous data communication frequencies for use with 16X UART/USRT devices. An on-chip crystal oscillator available on the 8116 is capable of providing a master reference frequency. Alternatively, complimentary TTL level clock signals can be input to pins 1 and 18. When using TTL outputs to drive the XTAL/EXT inputs, they should not be used to drive other TTL inputs due to excessive loading which may result in a reduction of noise immunity. Dividers are used on the output of the oscillator/buffer which generate the output frequencies f_T and f_R . These dividers can divide any integer from 6 to $2^{19} + 1$, inclusive. When using an even divisor, the output will be square; an odd divisor will cause output to be high longer than it is low by one clock period (f_x).

The 8116 allows generation of other frequencies with the use of its two divisor ROMs which contain 16 divisors, each 19 bits wide, allowing for up to 32 different divisors on custom parts.

Externally strobed data latches are used to hold the divisor select bits, R_A , R_D and T_A - T_D . The strobe inputs, STR or STT, allow data to pass directly through the data latch when in the high state. A new frequency is initiated within 3.5 μ sec of a change in any of the four divisor select bits read by the device. Pull-up resistors are provided on the divisor select inputs while are not present on the strobe inputs.

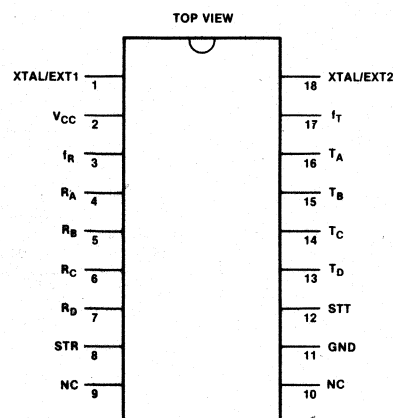
FEATURES

- Single +5V power supply
- On-chip crystal oscillator or external frequency input
- Direct compatibility with UART/USRT
- Dual selectable 16X clock outputs
- Reprogrammable ROM allowing generation of non-standard frequencies
- TTL, MOS compatibility

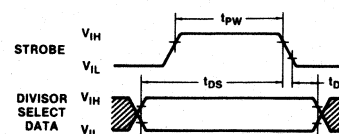
PIN FUNCTIONS

Pin. No.	Signal	Function
1	XTAL/EXT1	Input is either one pin of the crystal package or one polarity of the external input.
2	V_{CC}	Positive power supply—normally +5V.
3	f_R	This output runs at a frequency selected by the Receiver divisor select data bits.
4-7	R_A , R_B , R_C , R_D	These inputs, as shown in Table 1, select the receiver output frequency f_R .
8	STR	A high level input strobe loads the received data (R_A , R_B , R_C , R_D) into the receiver divisor select register. This input may be strobed or hard-wired to a high level.
9	NC	NC
10	NC	NC
11	GND	Ground
12	STT	A high level input strobe loads the transmitter data (T_A , T_B , T_C , T_D) into the transmitter divisor select register. This input may be strobe or hard-wired to a high level.
13-16	T_D , T_C , T_B , T_A	These inputs, as shown in Table 1, select the transmitter output frequency, f_T .
17	f_T	This output runs at a frequency selected by the transmitter divisor select data bits.
18	XTAL/EXT2	Input is either one pin of the crystal package or one polarity of the external input.

PIN CONNECTION



TIMING DIAGRAM



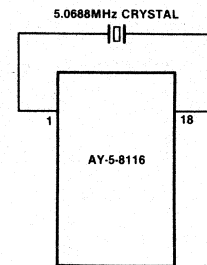
AY-5-8116 276-1795

ABSOLUTE MAXIMUM RATINGS

Positive Voltage on any Pin, with Respect to Ground+8.0V
 Negative Voltage on any Pin, with Respect to Ground-0.3V
 Power Supply Current, I_{CC} 50mA
 Operating Temperature Range 0 to +70°C
 Storage Temperature Range -55 to +150°C

AC CHARACTERISTICS

Clock Frequency, f_x (XTAL/EXT, 50% Duty Cycle $\pm 5\%$)5.1 MHz
 Strobe Pulse Width, t_{PW} 150 ns
 Input Set-up Time, t_{PS} 200 ns
 Input Hold Time, t_{DH} 50 ns
 Strobe to new Frequency Delay (@ $f_x = 5.0$ MHz) 3.5 μ s

CRYSTAL OPERATION

Crystal Operation

TABLE 1

REFERENCE FREQUENCY = 5.068800MHz

Divisor Select DCBA	Desired Baud Rate	Clock Factor	Desired Frequency (kHz)	Divisor	Actual Baud Rate	Actual Frequency (kHz)	Deviation
0000	50.00	16X	0.80000	6336	50.00	0.800000	0.0000%
0001	75.00	16X	1.20000	4224	75.00	1.200000	0.0000%
0010	110.00	16X	1.76000	2880	110.00	1.760000	0.0000%
0011	134.50	16X	2.15200	2355	134.52	2.152357	0.0166%
0100	150.00	16X	2.40000	2112	150.00	2.400000	0.0000%
0101	300.00	16X	4.80000	1058	300.00	4.800000	0.0000%
0110	600.00	16X	9.60000	528	600.00	9.600000	0.0000%
0111	1200.00	16X	19.20000	264	1200.00	19.200000	0.0000%
1000	1800.00	16X	28.80000	176	1800.00	28.800000	0.0000%
1001	2000.00	16X	32.00000	158	2005.06	32.081013	0.2532%
1010	2400.00	16X	38.40000	132	2400.00	38.400000	0.0000%
1011	3600.00	16X	57.60000	88	3600.00	57.600000	0.0000%
1100	4800.00	16X	76.80000	66	4800.00	76.800000	0.0000%
1101	7200.00	16X	115.20000	44	7200.00	115.200000	0.0000%
1110	9600.00	16X	153.60000	33	9600.00	153.600000	0.0000%
1111	19200.00	16X	307.20000	16	19800.00	316.800000	3.1250%

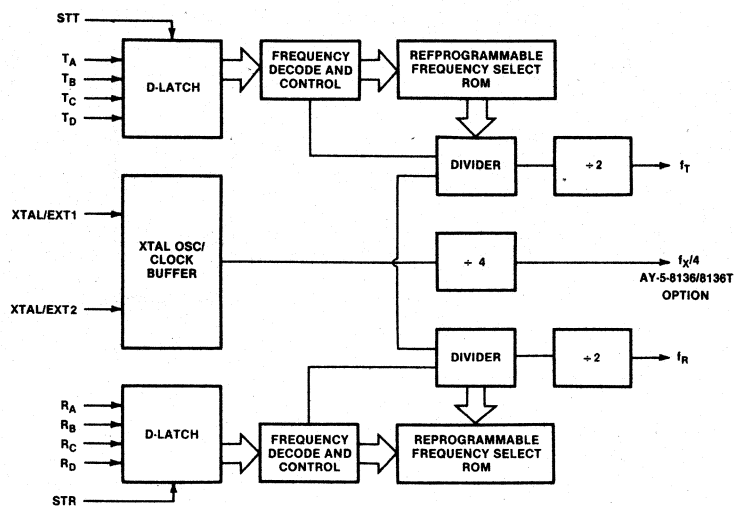
REFERENCE FREQUENCY = 4.915200MHz

Divisor Select DCBA	Desired Baud Rate	Clock Factor	Desired Frequency (kHz)	Divisor	Actual Baud Rate	Actual Frequency (kHz)	Deviation
0000	50.00	16X	0.80000	6144	50.00	0.800000	0.0000%
0001	75.00	16X	1.20000	4096	75.00	1.200000	0.0000%
0010	110.00	16X	1.76000	2793	109.93	1.758983	0.0100%
0011	134.50	16X	2.15200	2284	134.50	2.152000	0.0000%
0100	150.00	16X	2.40000	2048	150.00	2.400000	0.0000%
0101	300.00	16X	4.80000	1024	300.00	4.800000	0.0000%
0110	600.00	16X	9.60000	512	600.00	9.600000	0.0000%
0111	1200.00	16X	19.20000	256	1200.00	19.200000	0.0000%
1000	1800.00	16X	28.80000	171	1796.49	28.743859	0.1949%
1001	2000.00	16X	32.00000	154	1994.81	31.916883	0.2597%
1010	2400.00	16X	38.40000	128	2400.00	32.000000	0.0000%
1011	3600.00	16X	57.60000	85	3614.11	57.825882	0.3921%
1100	4800.00	16X	76.80000	64	4800.00	76.800000	0.0000%
1101	7200.00	16X	115.20000	43	7144.19	114.306976	0.7751%
1110	9600.00	16X	153.60000	32	9600.00	153.600000	0.0000%
1111	19200.00	16X	307.20000	16	19200.00	307.200000	0.0000%

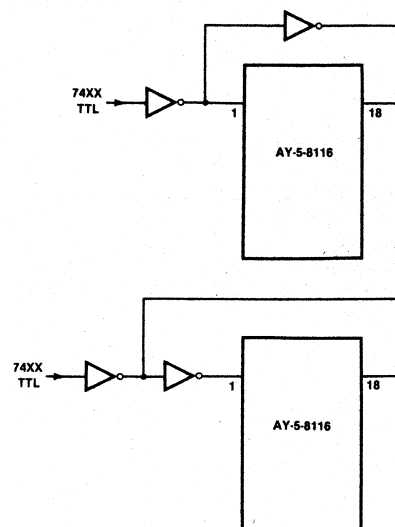
DATA ACQUISITION AND TRANSMISSION

AY-5-8116 276-1795

BLOCK DIAGRAM



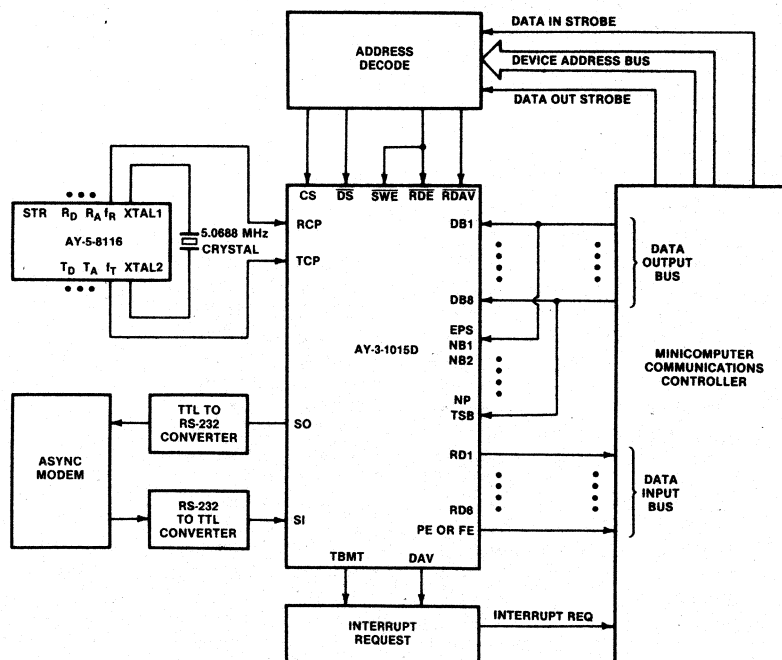
EXTERNAL INPUT OPERATION



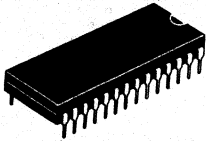
74XX-totem pole or open collector output
(external pull-up resistor required)

External Input Operation

TYPICAL APPLICATION



Minicomputer Interface
AY-3-1015D UAR/T + AY-5-8116
Dual Baud Rate Generator



TUNES SYNTHESIZER

AY-3-1350

276-1782

GENERAL DESCRIPTION

The AY-3-1350 is an N-channel MOS microcomputer based synthesizer of pre-programmed tunes for applications in toys, musical boxes, and doorchimes. The standard device has a set of 25 different popular and classical tunes chosen for their international acceptance. In addition there are 3 chimes making a total of 28 tunes.

The chip is mask-programmable during manufacture enabling the quantity user to select his own music. Up to 28 tunes of varying length can be chosen.

The device has multi-mode operation making it suitable for a wide variety of applications.

FEATURES

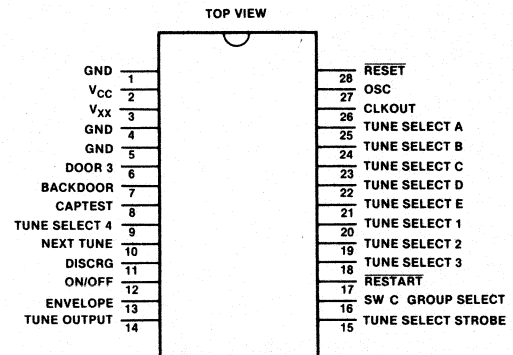
- 25 different tunes plus 3 chimes
- Mask programmable with customer specified tunes for toys, musical boxes, etc.
- Minimal external components
- Automatic switch-off signal at end of tune for power savings
- Envelope control to give organ or piano quality
- Sequential tune mode
- 4 door capability when used as doorchime
- Operation with tunes in external PROM if required
- Single supply (+5V) operation

TUNES

The standard AY-3-1350 contains the following tunes:

A0 Toreador	A3 O Sole Mio
B0 William Tell	B3 Santa Lucia
C0 Hallelujah Chorus	C3 The End
D0 Star Spangled Banner	D3 Blue Danube
E0 Yankee Doodle	E3 Brahms' Lullaby
A1 John Brown's Body	A4 Hell's Bells
B1 Clementine	B4 Jingle Bells
C1 God Save the Queen	C4 La Vie en Rose
D1 Colonel Bogey	D4 Star Wars
E1 Marseillaise	E4 Beethoven's 9th
A2 America, America	
B2 Deutschland Leid	
C2 Wedding March	Chime X Westminster Chime
D2 Beethoven's 5th	Chime Y Simple Chime
E2 Augustine	Chime Z Descending Octave Chime

PIN CONNECTION



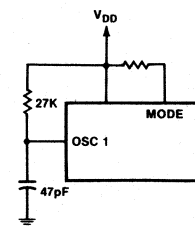
ABSOLUTE MAXIMUM RATINGS

Primary Supply Voltage, V_{DD}	7V
Output Buffer Supply Voltage, V_{XX}	9V
Primary Supply Current (No Load), I_{DO}	55mA
Output Buffer Supply Current (No Load), I_{XX}	5mA
Logic Input Low Voltage, V_{IL}	0.8V
Logic Input High Voltage (Note 2), V_{IH1}	$V_{DD}V$
(Except RESET and OSC when driven externally)	
Logic Input High Voltage, V_{IH2}	$V_{DD}V$
(RESET and OSC)	
Logic Output High Voltage (Note 2), $V_{OH}(I_{OH} = 100\mu A)$	2.4V
Logic Output Low Voltage, $V_{OL}(I_{OL} = 1.6\mu A, V_{XX} = 4.5V)$	0.45V
($I_{OL} = 5mA, V_{XX} = 9V$)	0.90V
($I_{OL} = 5mA, V_{XX} = 9V$)	0.50V
($I_{OL} = 10mA, V_{XX} = 9V$) (Note 1)	0.90V
Operating Temperature	0 to 70°C

Notes: 1. Total I_{OL} for all registers must be less than 150mA under any conditions.

2. Except following pins which have open drain outputs/inputs: 6, 7, 8, 12 and 13.

TEST CIRCUIT



Test Circuit

Figure 1—System Diagram

TYPICAL APPLICATIONS (Cont'd)

Switching Options

In Figure 1 the Switch C Group Select pin (16) is not connected, and one of the five tunes (A0 through E0) will play if switch C is activated. Other number groups can be chosen by connecting the Switch C Group Select pin as follows:

Switch C Group Select pin (16) is connected to:	Switch C Tunes
no other pin	A0-E0
Tune Select 1 (pin 20)	A1-E1
Tune Select 2 (pin 19)	A2-E2
Tune Select 3 (pin 18)	A3-E3
Tune Select 4 (pin 9)	A4-E4

Which of the five possible switch C tunes will be played depends on the current setting of the LETTER SWITCH A-E.

Switch C selection can be made by hard-wire connection for a permanent selection or a third switch can be added for an additional group selection feature.

LED Direct Drive

V_{XX} drives the gate of the output buffer, allowing adjustment of drive capability:

V_{XX}	V_{OUT}	$I_{SINK} (typ.)$
5V	0.4V	2.5mA
5V	0.7V	4.2mA
10V	0.4V	5.8mA
10V	0.7V	10.0mA
10V	1.0V	14.1mA

Using the power-up circuit of Figure 1, the AY-3-1350 will have +5V applied and be latched within a few microseconds (dependant upon external components) from any bell-push closing. The device starts to operate when the RESET pin reaches logic 1 (about 10ms with components shown) but in fact the tune select switches are not interrogated until approximately 6 ms later. The total is sufficient for most bell-pushes to complete any bounce period and for a firm selection of tunes to be made.

Next Tune Facilities

At the end of tune play the circuit of Figure 1 powers down because ON/OFF (pin 12) is raised to a logic 1. This simplified flow diagram in Figure 3 shows that before the power down there is a test for connection between NEXT TUNE (pin 10) then RESTART (pin 17) with TUNESELECT 4 (pin 9). At this time NEXT TUNE (pin 10) then RESTART (pin 17), which is normally at logic 1, output a logic 0. This is looked for at input TUNESELECT 4 (pin 9). If neither is found the power down system is reached as in Figure 1.

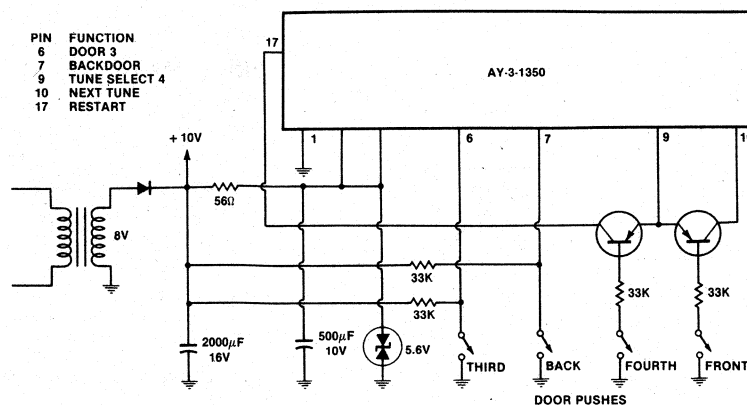


Figure 2

AY-3-1350 276-1782

TYPICAL APPLICATIONS (Cont'd)

A NEXT TUNE (pin 10)—TUNE SELECT 4 (pin 9) connection at the moment of test causes the next tune in the list to be played after a short pause (equal to a musical breve—the actual time depends on the setting of the tune speed control). The order of the tunes is A0 to E4 as given in the listing of standard AY-3-1350 tunes. If the last tune (E4) was played then the circuit will go on to play the first tune A0 (and then successive ones). The chimes are not included in the cycling sequence.

A RESTART (pin 17)—TUNeselect 4 (pin 9) connection at the moment of test at the end of a tune causes the same selected tune to be played again. Figure 3 shows that in this case the tune sensing mechanism is passed through once more so the tune would be different the second time if the switches were altered while the first tune was playing.

The connections referred to cannot be permanent because otherwise the circuit would never stop playing tunes. Figure 2 shows how transistors are used to make the connection in a practical application.

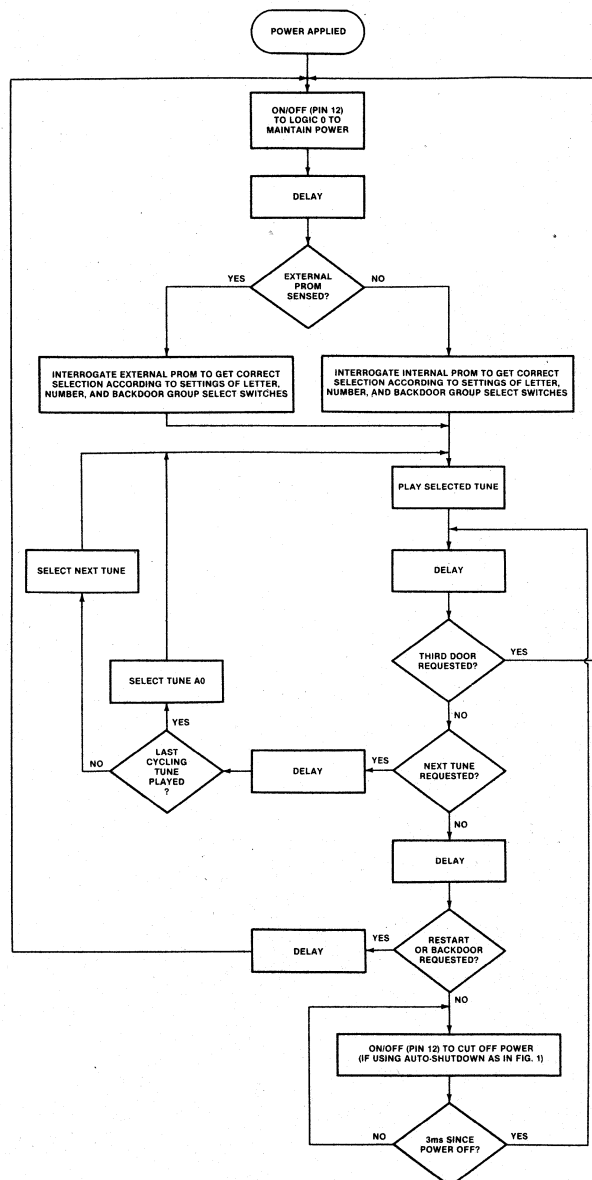
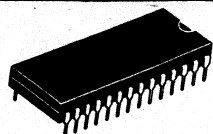


Figure 3—Flow Diagram



SPEECH PROCESSOR

SP0256

276-1783

GENERAL DESCRIPTION

The SP0256 (speech processor) is a single chip N-channel MOS LSI device that is able, using its stored program, to synthesize speech or complex sounds.

The achievable output is equivalent to a flat frequency response ranging from 0 to 5kHz, a dynamic range of 42dB, and a signal to noise ratio of approximately 35dB.

The SP0256 incorporates four basic functions:

1. A software programmable digital filter that can be made to model a VOCAL TRACT.
2. A 16K ROM which stores both data and instructions (THE PROGRAM).
3. A MICROCONTROLLER which controls the data flow from the ROM to the digital filter, the assembly of the "word strings" necessary for linking speech elements together, and the amplitude and pitch information to excite the digital filter.
4. A PULSE WIDTH MODULATOR that creates a digital output which is converted to an analog signal when filtered by an external low pass filter.

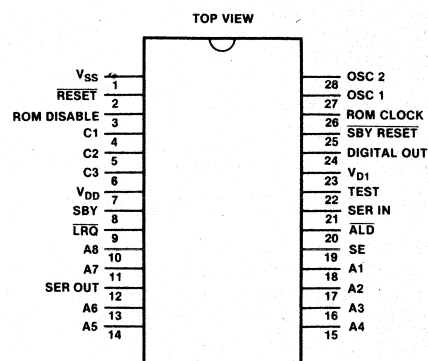
FEATURES

- Natural speech
- Stand alone operation with inexpensive support components
- Wide operating voltage
- Word, phrase, or sentence library, ROM expandable
- Expandable to 491K of ROM directly
- Simple interface to most microcomputers or microprocessors
- Supports L.P.C. synthesis: formant synthesis: allophone synthesis

PIN FUNCTIONS

Pin Number	Name	Function
1	V _{SS}	Ground
2	RESET	A logic 0 resets the SP. Must be returned to a logic 1 for normal operation.
3	ROM DISABLE	For use with an external serial speech ROM. A logic 1 disables the external ROM.
4,5,6	C1, C2, C3	Output control lines used by an external serial speech ROM.
7	V _{DD}	Primary power supply.
8	SBY	STANDBY. A logic 1 output indicates that the SP is inactive (i.e., not talking) and V _{DD} can be powered down externally to conserve power. When the SP is reactivated by an address being loaded, SBY will go to a logic 0.
9	LRQ	LOAD REQUEST. LRQ is a logic 1 output whenever the Input buffer is full. When LRQ goes to a logic 0, the input port is loaded by placing the 8 address bits on A1-A8 and pulsing the ALD Input.
10,11,13,14, 15,16,17,18	A8, A7, A6, A5, A4, A3, A2, A1	8-bit address which defines any one of 256 speech entry points.
12	SER OUT	SERIAL ADDRESS OUT. This output transfers a 16-bit address serially to an external speech ROM.
19	SE	STROBE ENABLE. Normally held in logic 1 state. When tied to ground, ALD is disabled and the SP will automatically latch in the address on the input bus approximately 1μs after detecting a logic 1 on any address line.
20	ALD	ADDRESS LOAD. A negative pulse on this input loads the 8 address bits into the input port. The leading edge of this pulse causes LRQ to go high.
21	SER IN	SERIAL IN. This is an 8-bit serial data input from an external speech ROM.
22	TEST	A logic 1 places the SP in test mode. This pin should normally be grounded.
23	V _{D1}	Standby power supply for the interface logic and controller.
24	DIGITAL OUT	Pulse width modulated digital speech output which, when filtered by a 5kHz low pass filter and amplified, will drive a loudspeaker.
25	SBY RESET	STANDBY RESET. A logic 0 resets the interface logic. Normally should be a logic 1.
26	ROM CLOCK	1.56MHz clock for an external serial speech ROM.
27	OSC 1	XTAL IN. Input connection for a 3.12 MHz crystal.
28	OSC 2	XTAL OUT. Output connection for a 3.12MHz crystal.

PIN CONNECTION



N-CHANNEL MOS (AUDIO)

SP0256 276-1783

APPLICATIONS

- Telecommunications
- Appliances
- Computer peripherals
- Automotive
- Personal computers
- Toys/games
- Educational aids
- Warning systems
- Security systems
- Electronic musical instruments
- Aids to the blind
- Narrow bandwidth
- Communication systems

ABSOLUTE MAXIMUM RATINGS

DC CHARACTERISTICS

Primary Supply Voltage, V_{DD} 7V
 Standby Supply Voltage, V_{D1} 7V
 Primary Supply Current, I_{DD} 90mA

Inputs

A1-A8, \overline{ALD} , SERIN, TEST, SE

Logic 0, V_{IL} 0.6V
 Logic 1, V_{IH} V_{D1} V
 Capacitance, C_{IN} 10pF
 Leakage, I_{LC} $\pm 10\mu A$

Reset, \overline{SBY} Reset

Logic 0, V_{IL1} 0.6V
 Logic 1, V_{IH1} V_{D1} V

Outputs

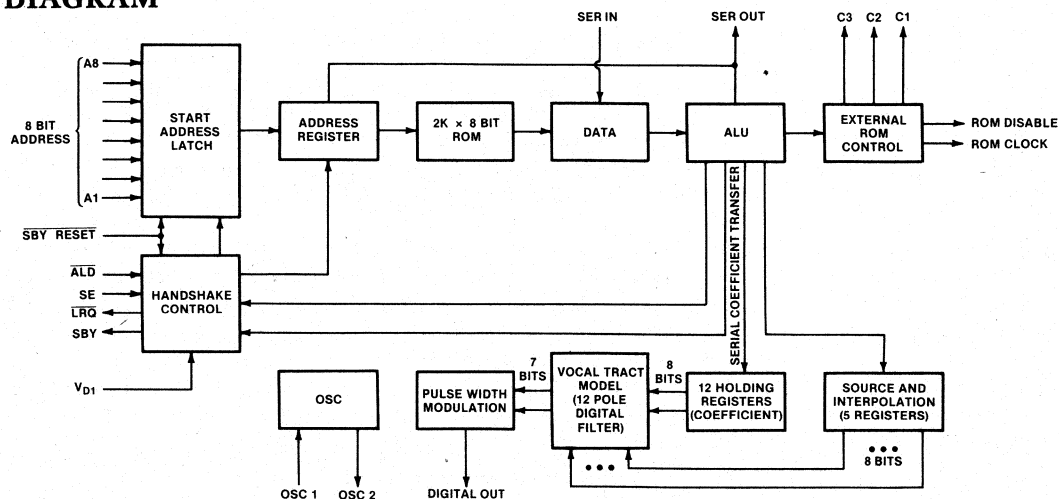
\overline{SBY} , DIGITAL OUT, C1, C2, C3, \overline{LRQ} , ROM DISABLE, ROM CLOCK, SER OUT

Logic 0, Vol [0.72mA (2 LS TTL Loads)] 0.6V
 Logic 1, V_{OM} [-50 μA (2 LS TTL Loads)] V_{D1} V

AC CHARACTERISTICS

Clock Frequency (Crystal) 3.120 MHz
 Reset, \overline{SBY} Reset (t_{pw1}) 100 μs
 \overline{ALD} (< 800ns) (t_{pw2}) 200 ns
 A1-A8 Set Up (t_{s2}) 160 ns
 A1-A8 Hold (t_{h2}) 160 ns
 \overline{ALD} (≥ 800 ns) (t_{pw3}) 800 ns
 A1-A8 Set Up (t_{s3}) 0 ns
 A1-A8 Hold (t_{h3}) 1200 ns
 \overline{LRQ} (t_{pd0}) 640 ns
 \overline{SBY} (t_{pd0}) 640 ns
 Operating Temperature, T_A 0 to 70°C

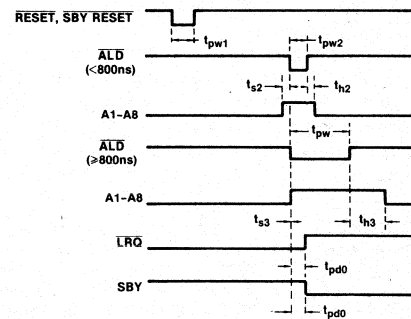
BLOCK DIAGRAM



HOUSE TALKING CLOCK SP0256 #2 VOCABULARY LIST

ADDRESS	WORD	ADDRESS	WORD
0	OH	18	EIGHTEEN
1	ONE	19	NINETEEN
2	TWO	20	TWENTY
3	THREE	21	THIRTY
4	FOUR	22	FORTY
5	FIVE	23	FIFTY
6	SIX	24	IT IS
7	SEVEN	25	A.M.
8	EIGHT	26	P.M.
9	NINE	27	HOURL
10	TEN	28	MINUTE
11	ELEVEN	29	HUNDRED HOUR
12	TWELVE	30	GOOD MORNING
13	THIRTEEN	31	ATTENTION PLEASE
14	FOURTEEN	32	PLEASE HURRY
15	FIFTEEN	33	MELODY A
16	SIXTEEN	34	MELODY B
17	SEVENTEEN	35	MELODY C

TIMING DIAGRAM

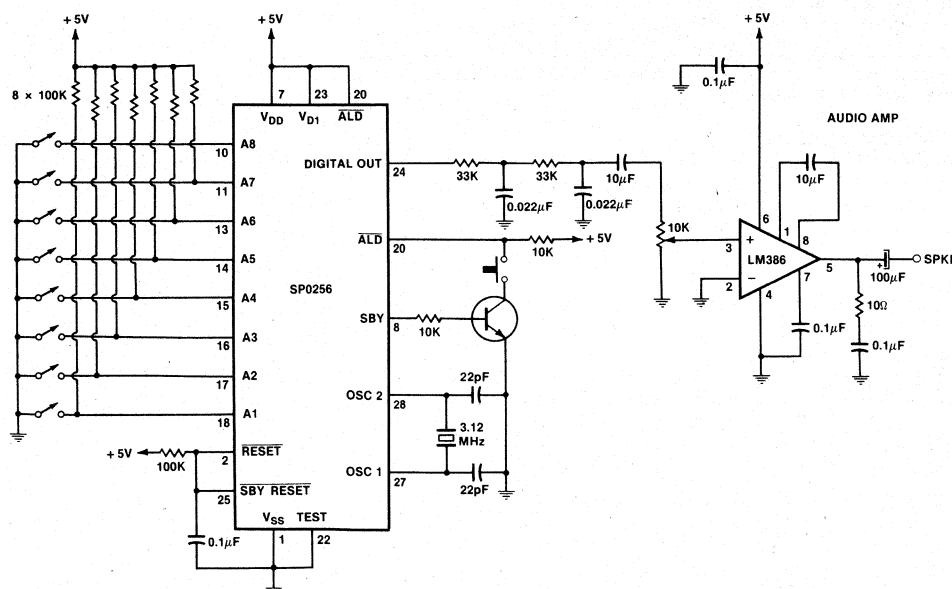


MELODY A: $\left\{ \begin{array}{c} 2/4 \\ 3 \ 1 \ 2 \ 5 - \mid 5 \ 2 \ 3 \ 1 \end{array} \right\}$

MELODY B: $\left\{ \begin{array}{c} 2/4 \\ 5 \ 3 \mid 11 \ 1234 \mid 5550 \mid 3 \end{array} \right\}$

MELODY C: $\left\{ \begin{array}{c} 2/4 \\ 15 \mid 1 \ 53 \mid 5 \ 23 \mid 1 \end{array} \right\}$

TYPICAL APPLICATIONS



Stand Alone Configuration

277-1012

RADIO CONTROL ELECTRONIC KIT

GENERAL DESCRIPTION

This module was designed for radio control of cars, racers and boats. It can be operated in forward, forward with right turn, forward with left turn and backward. The carrier frequency is 27 MHz. The control commands are transmitted by tone pulse.

Forward—without carrier.

Forward W/right turn—carrier with 3000 Hz pulse modulation.

Forward W/left turn—carrier with 500 Hz pulse modulation.

Backward—carrier only.

There are some wires & external components that you need.

Please see External Component Requirements.

EXTERNAL COMPONENT REQUIREMENTS

Transmitter	Recommendations
Ant Transmitting antenna	0.5 meter (20 inch) length telescope antenna or steel wire.
S1 Functional switch for driving	Two poles, two throw switch (DPDT) (275-663)
S2 Functional switch for steering	Two poles, two throw switch with center off. (DPDT) (275-664)
Battery snap	For 006P 9V battery (270-325)
Receiver	Recommendations
Ant. Receiving antenna	0.3 meter (12 inch) length steel wire
M1 Steering motor	3V motor (Mabuchi motor RN-140-14180)
M2 Driving motor	3V motor (Mabuchi motor RE-280-2865)
S1 ON/OFF switch	2 poles, 2 throw slide switch (DPDT) (275-607)
Battery snap	For 006P 9V battery (270-325)
Battery holder	For two D cells 1.5V (270-386)

CONTROL INSTRUCTIONS

The receiver will respond to commands as follows:

Action	Command
Forward	ON/OFF switch of receiver is switched ON.
Forward and Right	Poles of functional switch S2 are at the "R" position
Forward and Left	Poles of functional switch S2 are at the "L" position
Backward	Poles of functional switch S1 are at the "B" position

Note: There are no steering functions while the car is being driven backward. If the system is out of command, please read the trouble shooting.

SIMPLE ADJUSTMENTS

1. Adjust L1 for best response to 27.145 MHz signal from a standard signal generator. Insert a 5 pF capacitor in series between the signal generator and receiver's antenna input.
2. Adjust L3 for maximum transmitter output power as indicated on a field strength meter.
3. Adjust L4 for proper transmitter oscillation as indicated by maximum reading on a field strength meter.

TROUBLESHOOTING

Trouble	Possible Cause	Solution
No function	Low battery voltage	Replace batteries
	Poor soldering	Checked soldering
	Wrong connection	Checked connection
	Corroded functional switch and ON/OFF switch.	Replace functional switch and ON/OFF switch
Insufficient control distance	Low battery voltage	Replace batteries
	Poor soldering for antenna	Checked soldering for antenna
	Length of antennas are not suitable	Replace with suitable antenna.

277-1012

ABSOLUTE MAXIMUM RATINGS

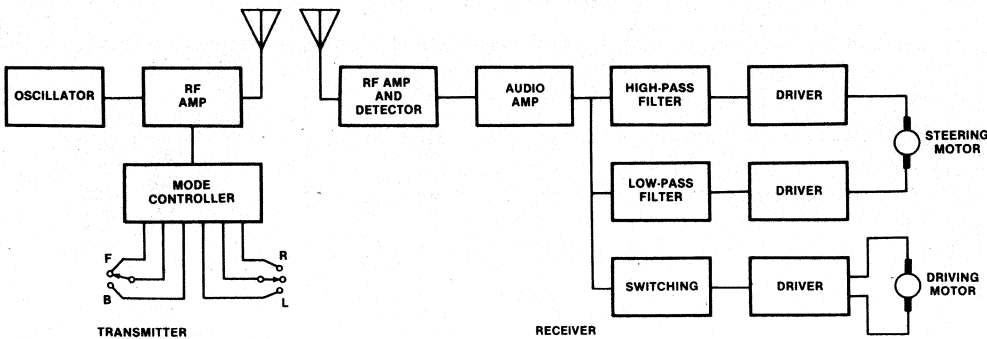
Transmitter

Frequency 27.145 MHz
Current 17mA
Operating Voltage 9V
Battery Life 10 Hours

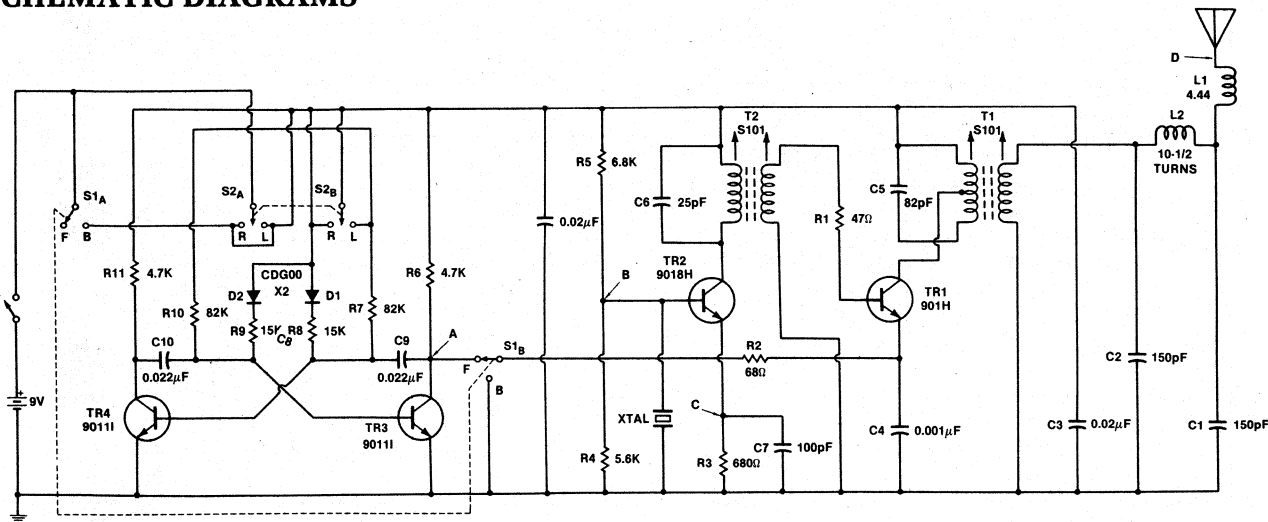
Receiver

Frequency 27.145 MHz
Current 12mA
Operating Voltage 9V

BLOCK DIAGRAM



SCHEMATIC DIAGRAMS



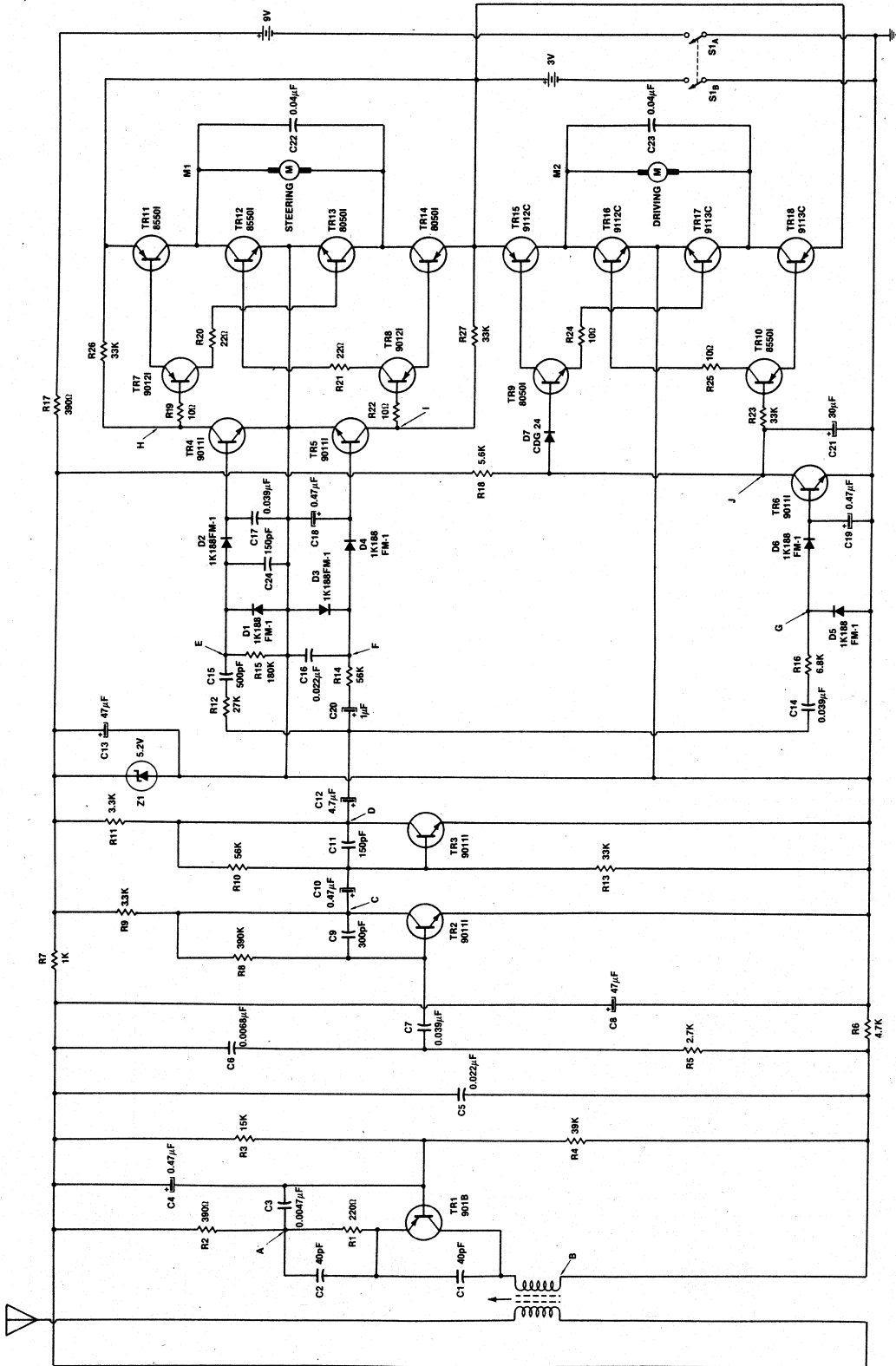
A		B		C		D	
VOLTAGE	2.9V	2.3V	2.2V	4.0V	B = CARRIER	F&L = 500Hz	F&R = 3000Hz
WAVEFORM							

Note: All voltages are measured from ground with digital meter.

Transmitter

277-1012

SCHEMATIC DIAGRAMS (Cont'd)



A		B		C		D		E		F		G		H		I		J	
F 4.30V	B 4.30V	F 1.57V	B 1.59V	F 2.53V	B 2.53V	F 2.53V	B 2.53V	F 0.27V	B 0.13V	F 0.03V	B 0.02V	F 0.38V	B 0.20V	F 1.7V	B 3 V	F 1.46V	B 3 V	F 0.18V	B 2.83V
0.3V		0.25V		120mV		4.4V		0.8V		0.9V		0.8V		0.8V		0.8V		0.8V	

All voltages are measured from ground with a digital meter and measured with signal (lower are without signal.)

IMPORTANT SUGGESTIONS ON THE USE AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

- Power dissipation
- Maximum collector current
- Maximum collector-to-emitter voltage
- Maximum collector-to-base voltage
- Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

- Gain
- Frequency limitations

Caution: It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

IMPORTANT NOTE

We caution you that in any cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements. This is true even

when making **exact** replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing—refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
000000FR1	1104	000072090	1123	001-0072-00	1114	001-026010	1102	004-0027-00	1104	003307	1103
000000FR2	1104	000072130	1102	001-0077-00	1104	001-026030	1102	004-009900	1102	003449	2058
000000FR1	1104	000072150	562	001-0081	1123	001-026060	1103	004-002000	1104	003460	2016
000000S15	1104	000072160	1123	001-0095-00	1102	001-044272-002	2059	004-002700	1104	003461	2016
000000SD1	1104	000072190	562	001-0095-02	1103	001-044273-002	2030	004-002800	1104	004567	1104
000000IN60	1123	000073070	2023	001-01-02	2023	001-044277-002	1104	004-003000	1104	004746	2023
000000IS85	1123	000073080	2016	001-01-03	2023	001-044672-001	2007	004-003000#	1104	004763	1102
000000ID1	1104	000073090	2009	001-01-04	2023	001-044673-001	2007	004-003300	1104	004792	2010
000000DS17	1104	000073100	2009	001-0112-00	1103	001-044674-001	2059	004-003400	1104	004887	563
000000DS18	1104	000073110	2030	001-0125-00	1102	001-044676-001	1102	004-003600	1104	0012060	1123
000000DS-38	1104	000073120	2009	001-0151-00	1102	001-044677-001	2016	004-003700	1101	0023645	2010
000000DS38	1104	000073130	2009	001-0151-01	1102	001-1	2060	004-003700(SR-37)	1101	0023828	2009
000000SD1A8	1104	000073140	2058	001-0153-00	1104	001-533-00	2023	004-003900	1104	0023829	2010
000000SD1Y	1104	000073230	2009	001-0163-02	565	001-21011	2009	004-004000	1104	0044028-014	2009
000000SD46	1123	000073231	2009	001-0163-15	562	001-223034	564	004-004100	1104	0044028-14	2009
000000IS188	1123	000073290	2009	001-01202-1	2007	001-226010	1102	004-009200	1123	0048000	2007
000000IS330	565	000073310	2009	001-01203-1	2007	001-226030	1104	004-003300	1104	0099203-005	1104
000000IS334	562	000073332	2009	001-01206-0	2007	002-00840	2007	004-003500	1104	0099203-007	1104
000000IS990	1102	000073333	2009	001-01501-0	1123	002-00900	2007	004-003600	1104	00351980	2030
000000S822	2007	000073350	2016	001-02011	2009	002-005100	2007	004-003700	1104	00352080	2009
000000DC1	1104	000073351	2016	001-02020	2009	002-006300	2007	004-2	2020	00444028-010	2009
000000IS330A	565	000073360	2016	001-02101-0	2009	002-006500	2009	005-02	2009	00444028-014	2009
000000DS13	2016	000073361	2016	001-02101-1	2009	002-006600	2007	005-1	2020	00444028-002	2009
000000DS18	1104	000073370	2009	001-02102-0	2009	002-006800	2007	006-0000004	1103	00444028-004	2009
000000DS-38	1114	000073373	2016	001-02103-0	2009	002-006900	2007	006-0000134	2009	00444028-007	2009
000000DS131	1104	000073374	2016	001-02104-0	2009	002-007100	2007	006-0000135	2023	00444028-008	2009
000000DS410	1102	000073390	2009	001-02105-0	2009	002-007200	2007	006-0000137A	2041	00444028-010	2009
000000FR202	1104	000073391	2009	001-02106-0	2009	002-007300	2007	006-0000146	1801	00444028-014	2009
000000IB01	1104	0000DS410	1102	001-02107-0	2009	002-007400	2007	006-0000155A	2007	008010028	1103
000000WZ090	562	0000DS410R	1102	001-02108-0	2009	002-008300	2009	006-00055182	2023	003050118	1104
0000-00011-049	1102	0000FR202	1104	001-02109-0	2009	002-008400	2007	006-02	2023	0-008	2030
0000-00011-049	2009	0000RS1542	1104	001-02110-0	2009	002-009000	2007	006-6400902	1103	01	2023
0000-04	2009	0000SD1	1123	001-02111-0	2009	002-009500	2009	006-6450032	2009	01-03945	2016
0000-0141	2023	0000SD-1AUF	1102	001-02111-1	2009	002-009501	2009	007-0040-00	2041	01-010473	2027
0000-0150	2023	0000SD46	1123	001-02113-2	2009	002-009502	2009	007-0051-00	2030	01-010495	2023
0000-0300	2023	0000WZ090	562	001-02113-3	2009	002-009502-12	2009	007-0051-01	2030	01-010562	2023
0000IN60	1123	0000-04	2009	001-02113-4	2009	002-009600	2010	007-0051-01	2030	01-010564	2023
0000IS155	1102	0000IS49	1104	001-02113-5	2009	002-009601	2010	007-0112	2020	01-010628	2023
0000IS188	1123	0000IS188	1123	001-02119-0	2030	002-009601-12	2016	007-0112-00	2020	01-010673	2023
0000IS188AM	1123	0000IS188AM	1123	001-02121-0	2009	002-009600	2023	007-0112-03	2020	01-010719	2023
0000IS330A	565	0000IS188FM	1123	001-02201-0	2023	002-009800A	2023	007-0112-04	2020	01-010733	2023
0000IS334	562	0000IS334	562	001-02303-0	565	002-009900	2009	007-0112-05	2020	01-010844	2023
0000IS446D	1123	0000IS2144Z	1102	001-02303-3	561	002-03	2009	007-112-04	2020	01-030372	2009
0000IS1210	1102	0000IS164-0	2007	001-02303-4	564	002-010300	2023	007-0016-00	1103	01-030373	2016
0000IS1555	1102	0000IS187	2007	001-02405-0	1104	002-010300A	2023	007-0060-00	1103	01-030380	2058
0000IS1849	1104	0000IS187(RD)	2007	001-02405-1	1104	002-010400	2009	007-25005-01	1103	01-030388	2059
0000IS1849R	1102	0000IS303-0	2007	001-02405-2	1104	002-010500	2023	007-25013-01	1103	01-030394	2058
0000IS2076	1104	0000IS1860	2007	001-02406-0	1114	002-010500A	2023	007-25016-01	1103	01-030454	2059
0000IS4460	1123	0000IS3030	2007	001-02406-1	1114	002-010600	2030	007-73203-01	2007	01-030458	2009
000025406	2010	0000SC373	2009	001-02601-0	1104	002-010800	2009	007-73401-02	2007	01-030509	2059
000025A10	2007	0000SC373W	2016	001-02603-0	1104	002-010900	2023	007-74004-01	2023	01-030509(NPN)	2059
000025A101	2007	0000SC458B	2009	001-012010	2007	002-010900A	2023	007-74008-01	2023	01-030536	2016
000025A202	2007	0000SC458C	2009	001-012011	2007	002-011000	2007	007-74055-02	2009	01-030643	2055
000025A550	2023	0000SC531F	2059	001-012020	2007	002-011400	2016	007-74655-06	2009	01-030648	2010
000025A609	2023	0000SC537F	2059	001-012021	2007	002-011500	2016	007-74659-01	2030	01-030682	2016
000025B22	2007	0000SC644Q	2016	001-012030	2007	002-011600	2007	007-74659-04	2030	01-030710	2009
000025B185	2007	0000SC644R	2016	001-012031	2007	002-011900	2007	007-74659-06	2030	01-030711	2016
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020-00025	2010	022-3511-780	2007	065-016	1114	0103-0014/4460	2009	0131-001417	2009	06246-00	2009
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	2009	025-100018	2009	070	2041	0103-0491	2009	0131-002656	2007	020425-3	2020
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	2009	025-100027	1123	070-005	1114	0103-0492	2016	0131-004367	2041	025026	1104
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020-1110-013(SCOTT)		025-1									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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0552006H	1104	0573557	2030	06200065	1143	.5E5	1104	1/4Z5.1T5	565	1-21-266	2007
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0570519	1123	0573742	2007	06200103	1104	.5E10	1114	1/4Z15T5	564	1-21-274	2007
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0573004	2007	0575004	1123	06200117	1102	.5J6	1104	1	2023	1-101	2009
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0573005-14	2007	0575005H	1123	06400001	1067	.5J8	1114	1-00004-064	1103	1-506-319	1114
0573005H	2007	0575007	1123	09301020	2007	.5J10	1114	1-00006-003	2009	1-530-012-11	1104
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0573012H	2007	0575067	1123	.0A8-1	2007	.7E2	1104	1-000-099-00	1808	1-531-5-11	1104
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0573018H	2007	0576001	2007	.0A8-1-12-7	2007	.7E4	1104	1-0002-001	1103	1-531-105-11	1104
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0573022H	2007	0576054(BIAS)	1104	.0A9M	1123	.7E6	1104	1-0006-0022	2009	1-531-106	1104
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0573152	2007	04440032-007	2023	.0C-44	2007	.7Z12D	563	1-21-73	2007	1-801-308	2007
0573153	2007	04440032-008	2023	.0C-45	2007	.7Z14A	564	1-21-74	2007	1-801-308-24	2007
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1B05	1171	1E15Z10	564	1LE11-A	1114	1N23GR	1124	1N66A	1123	1N151	1104
1B05J05	1171	1E1535A	2058	1LE11-B	1114	1N23H	1124	1N67	1123	1N152	1104
1B05J20	1104	1E1535A/7825B	2058	1LE11-C	1114	1N23WD	1124	1N67A	1123	1N153	1104
1B05J40	1104	1E1535B	2010	1LE11-D	1114	1N23WDM	1124	1N67D	1123	1N158	1104
1B05	2041	1E152	1104	1LE11-K	1114	1N23WE	1124	1N68	1123	1N169	1104
1B06T05	1171	1E1505	1104	1LE11-L	1114	1N23WEM	1124	1N68A	1123	1N172	1124
1B06T10	1171	1E11	1104	1LE11-OR	1114	1N23WFM	1124	1N69	1123	1N173	1124
1B1	1171	1E12	1104	1LE11-Y	1114	1N23WGM	1124	1N69A	1123	1N191	1124
1B2Z1	1104	1E13	1104	1LE11A	1114	1N23WGM	1124	1N70	1123	1N192	1123
1B4	1173	1E14	1104	1LE11B	1114	1N25	565	1N70A	1123	1N193	1104
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1B759	563	1E16	1104	1LE11D	1114	1N31A	1123	1N72	1123	1N194A	1102
1B2992	1103	1E17	1114	1LE11K	1114	1N34	1123	1N72G	1123	1N194B	1102
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1B261	1104	1E110	1114	1LE11R	1114	1N34AM	1123	1N74	1123	1N196	1102
1B261-A	1104	1E25.1	565	1LE11Y	1114	1N34AS	1123	1N75A	1123	1N198	1123
1B261-B	1104	1E29.1	562	1LF11	1114	1N34A-Z	1123	1N76	1123	1N198A	1123
1B261-C	1104	1E212	563	1LZ61	1114	1N34G	1123	1N76A	1123	1N198B	1123
1B261-D	1104	1E215	564	1LZ61-A	1114	1N34GA	1123	1N76C	1123	1N200	1102
1B261-K	1104	1F05	1104	1LZ61-B	1114	1N34Z	1123	1N76G	1123	1N200AR	1102
1B261-L	1104	1F2	1104	1LZ61-C	1114	1N35	1123	1N81	1123	1N201	1102
1B261-OR	1104	1F8	1114	1LZ61-D	1114	1N36	1123	1N81A	1123	1N202	1102
1B261-Y	1104	1F10	1114	1LZ61-K	1114	1N38	1123	1N82	1124	1N203	1102
1C0009	1104	1F14A	1104	1LZ61-L	1114	1N38A	1123	1N82A	1124	1N203CA	1102
1C0017	1102	1F2	1104	1LZ61-OR	1114	1N38B	1123	1N82AD	1124	1N204	1102
1C0025	1104	1G01	1123	1LZ61-Y	1114	1N40	1123	1N82AG	1124	1N205	1102
1C0026	1104	1G02	1123	1M5.1AZ10	565	1N41	1123	1N82D	1124	1N207	1102
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1C0031	1104	1G2Z	1104	1M5.1ZS10	565	1N43	1123	1N84	1123	1N209	1102
1C0038	561	1G2Z1	1104	1M6.2AZ10	561	1N44	1123	1N86	1123	1N210	1102
1C0039	1123	1G8	1114	1M6.2ZS5	561	1N45	1123	1N86AG	1123	1N211	1102
1C03	2020	1G25	1123	1M6.2ZS10	561	1N45A	1123	1N87	1123	1N212	1102
1C05	1104	1G86	1123	1M9.1Z	562	1N46	1123	1N87A	1123	1N213	1102
1C09	2020	1G4	1104	1M9.1Z5	562	1N46A	1123	1N87G	1123	1N214	1102
1C1	1104	1G02	1123	1M9.1Z10	562	1N47	1123	1N87GA	1123	1N215	1102
1C2	1104	1G04	1123	1M9.1ZS5	562	1N48	1123	1N87S	1123	1N216	1102
1C4	1104	1G05X	1123	1M9.1ZS10	562	1N48A	1123	1N87T	1123	1N217	1102
1C10	1114	1G06	1123	1M12Z	563	1N49	1123	1N88	1123	1N218	1102
1C12Z	563	1G0D10	1123	1M12Z5	563	1N50	1123	1N89	1123	1N251	1102
1C12ZA	563	1G0H2	1104	1M12Z10	563	1N51	1123	1N90	1123	1N251A	1102
1C14	2020	1G261	1104	1M12Z55	563	1N52	1123	1N90G	1123	1N252	1102
1C15	1759	1G261-A	1104	1M12ZS10	563	1N52A	1123	1N90GA	1123	1N252A	1102
1C15Z	564	1G261-B	1104	1M15Z	564	1N54	1123	1N91	1104	1N253	1102
1C15ZA	564	1G261-C	1104	1M15Z5	564	1N54A	1123	1N92	1104	1N254	1102
1C17	1758	1G261-D	1104	1M15Z10	564	1N54G	1123	1N93	1104	1N255	1102
1C18	1757	1G261-K	1104	1M15ZS5	564	1N54GA	1123	1N93A	1104	1N256	1123
1C26	1759	1G261-L	1104	1M15ZS10	564	1N56	1123	1N95	1104	1N267	1123
1C-101	2060	1G261-OR	1104	1M383T	703	1N56A	1123	1N96	1123	1N268	1123
1C-142	1759	1G261-Y	1104	1M753A	561	1N57	1123	1N96A	1123	1N270	1123
1C202	1757	1G2Z1	1104	1M2086	1104	1N57A	1123	1N97	1123	1N273	1123
1C3576	2009	1HC-10F	1104	1M8513A	1104	1N58	1123	1N97A	1123	1N276	1123
1C744005	2016	1HC-10R	1104	1MA4	1104	1N58A	1123	1N97A	1123	1N277	1123
1D08	564	1HC-15F	1104	1MAJ4.2	561	1N59	1123	1N98	1123	1N278	1123
1D099-001V-022	1102	1HC-15R	1104	1MJ36.2A	561	1N60	1123	1N98A	1123	1N279	1102
1D1	1104	1HC-20F	1104	1MJ12	563	1N60/0112-0028-6438	1123	1N99	1123	1N281	1102
1D2	1104	1HC-20R	1104	1MAJ12A	563	1N60/3490	1123	1N99A	1123	1N282	1102
1D2Z1	1104	1HC-25F	1104	1N10	1123	1N60/4454C	1123	1N100	1123	1N283	1123
1D5.1	565	1HC-25R	1104	1N10D-4F	1104	1N60/7825B	1123	1N100A	1123	1N285	1123
1D5.1A	565	1HC-30F	1104	1N21	1124	1N60-1	1123	1N103	1123	1N287	1123
1D6	1104	1HC-30R	1104	1N21A	1124	1N60-FA1	1123	1N104	1123	1N288	1123
1D6.2	561	1HC-40F	1104	1N21B	1124	1N60-H3	1123	1N105	1123	1N289	1123
1D6.2A	561	1HC-40R	1104	1N21C	1124	1N60-P	1123	1N107	1123	1N290	1123
1D6.2B	561	1HC-50F	1104	1N21D	1124	1N60-S	1123	1N108	1123	1N292	1123
1D6.25A	561	1HC-50R	1104	1N21DM	1124	1N60-T	1123	1N109	1123	1N294	1123
1D6.25B	561	1HC-60F	1104	1N21DMR	1124	1N60-TF1	1123	1N110	1124	1N294A	1123
1D8	1114	1HC-60R	1104	1N21DR	1124	1N60-TF1	1123	1N111	1123	1N295	1123
1D10	1114	1HC-80F	1114	1N21E	1124	1N60-Z	1123	1N112	1123	1N295A	1123
1D100	1067	1HC-80R	1114	1N21EM	1124	1N60A	1123	1N113	1123	1N295S	1123
1D101	1067	1HC-100F	1114	1N21EMR	1124	1N60AM	1123	1N114	1123	1N295X	1123
1D102	1067	1HC-100R	1114	1N21ER	1124	1N60B	1123	1N115	1123	1N296	1123
1D103	1067	1HY40	1104	1N21F	1124	1N60C	1123	1N116	1123	1N297	1123
1D104	1067	1HY50	1104	1N21FM	1124	1N60D	1123	1N117	1123	1N297A	1123
1D261	1104	1HY80	1114	1N21FMR	1124	1N60F	1123	1N118	1123	1N298	1123
1D261	1104	1HY100	1114	1N21FR	1124	1N60FA1	1123	1N117A	1123	1N298A	1123
1D261	1123	1J1	2009	1N21G	1124	1N60FD1	1123	1N118	1123	1N299	1124
1D212	563	1JH11F	1104	1N21GM	1124	1N60FM1	1123	1N118A	1123	1N299B	1124
1D261	1104	1JH62	1104	1N21GMR	1124	1N60FMX	1123	1N119	1123	1N300	1102
1D261-A	1104	1JL50	1104	1N21GR	1124	1N60G	1123	1N119A	1123	1N300A	1102
1D261-B	1104	1JL51	1104	1N21WD	1124	1N60GA	1123	1N120	1123	1N300B	1102
1D261-C	1104	1JL52	1104	1N21WDM	1124	1N60GB	1123	1N120A	1123	1N301	1102
1D261-D	1104	1JL53	1104	1N21WE	1124	1N60GB	1123	1N124	1124	1N301A	1102
1D261-K	1104	1JL56	1104	1N21WEM	1124	1N60M	1123	1N124A	1124	1N301B	1102
1D261-L	1104	1JL57	1104	1N21WF	1124	1N60M3	1123	1N125	1123	1N301S	1102
1D261-OR	1104	1JL58	1114	1N21WFM	1124	1N60P	1123	1N126	1123	1N303	1102
1D261-Y	1104	1JL59	1114	1N21WGM	1124	1N60R	1123	1N126A	1123	1N303A	1102
1E02	1104	1JL63	1114	1N21WGM	1124	1N60S	1123	1N126A	1123	1N303B	1102
1E05	1114	1JL64	1114	1N-22	1123	1N60SD60	1123	1N128	1123	1N304	1123
1E-1	2030	1JZ61	1114	1N22	1123	1N60T	1123	1N128A	1123	1N305	1123
1E1	1104	1JZ61-A	1104	1N23	1124	1N60TV	1123	1N132	1123	1N306	1123
1E2	1104	1JZ61-B	1104	1N23A	1124	1N60TVGL	1123	1N133	1123	1N307	1123
1E2Z5	563	1JZ61-C	1104	1N23B	1124	1N60TV-TOGL	1123	1N134	1123	1N308	1123
1E3	1104	1JZ61-D	1104	1N23C	1124	1N60TV-TOGL	1123	1N135	1102	1N309	1123
1E4	1104	1JZ61-E	1104	1N23D	1124	1N60VTP	1123	1N136	1123	1N310	1123
1E5	1104	1JZ61-F	1104	1N23DM	1124	1N60VTPGL	1123	1N137	1123	1N312	1123
1E6	1104	1JZ61-OR	1104	1N23DMR	1124	1N60Z	1123	1N137A	1102	1N314	1123
1E7	1114	1JZ61-Y	1104	1N23DR	1124	1N61A	1123	1N137B	1102	1N315	1104
1E8	1114	1K2	1143	1N23E	1124	1N62	1123	1N138	1102	1N315A	1104
1E-9A	2007	1K34A	1123	1N23EM	1124	1N63	1123	1N138A	1102	1N316	1104
1E9.1Z	562	1K60	1123	1N23EMR	1124	1N63A	1123	1N138B	1102	1N316A	1104
1E9.1Z10	562	1K60A	1123	1N23ER	1124	1N64	1123	1N139	1123	1N317	1104
1E10	1114	1K90	1123	1N23F	1124	1N64A	1123	1N140	1123	1N317A	1104
1E12Z	563	1K110	1123	1N23FA	1124	1N64B	1123	1N142	112		

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
1N459M	1102	1N603A	1104	1N774A	1123	1N889	1114	1N1054	1114	1N1564A	1104
1N460	1102	1N604	1104	1N775	1123	1N890	1102	1N1055	1143	1N1567A	1104
1N460A	1102	1N604A	1104	1N776	1123	1N891	1102	1N1056	1114	1N1568A	1104
1N460B	1102	1N605	1104	1N777	1123	1N892	1102	1N1057	1114	1N1617	1143
1N461	1102	1N605A	1104	1N778	1102	1N897	1102	1N1081	1104	1N1617AR	1143
1N461A	1102	1N606	1104	1N779	1102	1N898	1102	1N1081A	1104	1N1618	1104
1N462	1102	1N606A	1104	1N781	1123	1N899	1102	1N1082	1104	1N1619	1104
1N462A	1102	1N616	1123	1N788	1102	1N900	1102	1N1082A	1104	1N1620	1104
1N463	1102	1N617	1123	1N789	1102	1N901	1102	1N1083	1104	1N1630	1102
1N463A	1102	1N618	1123	1N789M	1102	1N902	1102	1N1083A	1104	1N1638	1102
1N464	1102	1N619	1102	1N790	1102	1N903	1102	1N1084	1104	1N1644	1141
1N464A	1102	1N622	1102	1N790M	1102	1N903/A	1102	1N1084A	1104	1N1645	1143
1N473	565	1N625	1102	1N791	1102	1N903A	1102	1N1093	1123	1N1646	1143
1N473A	565	1N625A	1102	1N791M	1102	1N903AM	1102	1N1095	1104	1N1647	1143
1N473B	565	1N625M	1102	1N792	1102	1N903M	1102	1N1096	1104	1N1648	1144
1N476	1123	1N626	1102	1N792M	1102	1N904	1102	1N1100	1104	1N1649	1144
1N477	1123	1N626A	1102	1N793	1102	1N904/A	1102	1N1101	1104	1N1650	1144
1N478	1123	1N626M	1102	1N793M	1102	1N904A	1102	1N1102	1104	1N1651	1144
1N479	1123	1N627	1102	1N794	1102	1N904AM	1102	1N1103	1104	1N1692	1104
1N480	1123	1N627A	1102	1N795	1102	1N904M	1102	1N1104	1104	1N1693	1104
1N480B	1104	1N628	1102	1N796	1102	1N905	1102	1N1104R	1104	1N1694	1104
1N482	1102	1N628A	1102	1N797	1102	1N905/A	1102	1N1105	1104	1N1695	1104
1N482A	1102	1N629	1102	1N798	1102	1N905A	1102	1N1108	1114	1N1696	1104
1N482B	1102	1N629A	1102	1N799	1102	1N905AM	1102	1N1122A	1104	1N1697	1104
1N482C	1102	1N631	1123	1N800	1102	1N905M	1102	1N1169	1104	1N1701	1104
1N483	1102	1N632	1123	1N801	1102	1N906	1102	1N1169A	1104	1N1702	1104
1N483A	1102	1N633	1102	1N802	1102	1N906/A	1102	1N1217	1104	1N1703	1104
1N483AM	1102	1N636	1123	1N803	1102	1N906A	1102	1N1217A	1104	1N1704	1104
1N483B	1102	1N636A	1123	1N804	1102	1N906AM	1102	1N1217B	1104	1N1705	1104
1N483BM	1102	1N645	1102	1N805	1123	1N906M	1102	1N1218	1104	1N1706	1104
1N489C	1102	1N645A	1102	1N806	1102	1N907	1102	1N1218A	1104	1N1707	1104
1N484	1102	1N645	1104	1N807	1102	1N907/A	1102	1N1218B	1104	1N1708	1104
1N484A	1102	1N645A	1104	1N808	1102	1N907A	1102	1N1219	1104	1N1709	1104
1N484B	1102	1N645B	1104	1N809	1102	1N907AM	1102	1N1219A	1104	1N1710	1104
1N484C	1102	1N646	1104	1N810	1102	1N907M	1102	1N1219B	1104	1N1711	1104
1N485	1102	1N647	1104	1N811	1102	1N908	1102	1N1220	1143	1N1712	1104
1N485A	1102	1N648	1104	1N811M	1102	1N908/A	1102	1N1220A	1143	1N1713	563
1N485B	1102	1N649	1104	1N812	1102	1N908A	1102	1N1220B	1143	1N1730	1114
1N485C	1102	1N658	1102	1N812M	1102	1N908AM	1102	1N1221	1144	1N1730A	1114
1N486	1102	1N658A	1102	1N813	1102	1N908M	1102	1N1221A	1144	1N1736	563
1N486A	1102	1N658M	1102	1N813M	1102	1N909	1123	1N1221B	1144	1N1736A	563
1N486B	1102	1N659	1102	1N814	1102	1N910	1123	1N1222	1144	1N1763	562
1N497	1123	1N659/A	1102	1N814M	1102	1N911	1123	1N1222A	1144	1N1763A	562
1N498	1123	1N659A	1102	1N815	1102	1N914	1103	1N1222B	1144	1N1764	562
1N500	1123	1N660	1102	1N815M	1102	1N914/A/B	1103	1N1225	1114	1N1766	561
1N503	1104	1N660A	1102	1N817	1102	1N914A	1103	1N1225A	1114	1N1766A	561
1N504	1104	1N661	1102	1N818	1102	1N914B	1103	1N1225B	1114	1N1770	562
1N505	1104	1N661A	1102	1N818M	1102	1N914M	1103	1N1226	1114	1N1770A	562
1N506	1104	1N662	1102	1N819	1102	1N915	1102	1N1226A	1114	1N1773	563
1N507	1104	1N662A	1102	1N822	561	1N916	1103	1N1226B	1114	1N1773A	563
1N508	1104	1N663	1102	1N835	1123	1N916A	1102	1N1251	1104	1N1775	564
1N509	1114	1N663A	1102	1N837	1102	1N916B	1102	1N1252	1104	1N1775A	564
1N510	1114	1N663M	1102	1N837A	1102	1N917	1102	1N1253	1104	1N1839	1102
1N511	1104	1N665	563	1N838	1102	1N919	1102	1N1254	1104	1N1840	1102
1N512	1104	1N666	564	1N839	1102	1N920	1102	1N1255	1104	1N1841	1102
1N513	1104	1N673	1104	1N840	1102	1N921	1102	1N1255A	1104	1N1842	1102
1N514	1104	1N675	561	1N840M	1102	1N922	1102	1N1256	1104	1N1843	1102
1N515	1104	1N676	1104	1N841	1102	1N924	1102	1N1257	1104	1N1844	1102
1N516	1104	1N677	1104	1N842	1102	1N925	1102	1N1258	1114	1N1845	1102
1N517	1114	1N678	1104	1N843	1102	1N926	1102	1N1259	1114	1N1846	1102
1N518	1114	1N679	1104	1N844	1102	1N927	1102	1N1260	1114	1N1847	1102
1N519	1104	1N681	1104	1N845	1102	1N928	1102	1N1261	1114	1N1877	563
1N520	1104	1N682	1104	1N846	1104	1N929	1102	1N1337-5	1104	1N1877A	563
1N521	1104	1N683	1104	1N847	1104	1N930	1102	1N1391	1123	1N1878	564
1N522	1104	1N684	1104	1N848	1104	1N931	1102	1N1406	1104	1N1878A	564
1N523	1104	1N685	1104	1N849	1104	1N932	1102	1N1407	1114	1N1907	1104
1N524	1104	1N686	1104	1N850	1104	1N933	1102	1N1408	1114	1N1908	1104
1N525	1114	1N687	1104	1N851	1104	1N934	1102	1N1415	1104	1N1909	1104
1N526	1114	1N689	1104	1N852	1104	1N937A	562	1N1426	563	1N1910	1144
1N527	1123	1N690	1102	1N853	1114	1N942A	563	1N1427	564	1N1911	1104
1N530	1104	1N692	1104	1N854	1114	1N942B	563	1N1439	1104	1N1912	1104
1N531	1104	1N693	1102	1N855	1114	1N943	563	1N1440	1104	1N1913	1104
1N532	1104	1N695	1123	1N856	1114	1N943A	563	1N1441	1104	1N1914	1114
1N533	1104	1N695A	1123	1N857	1104	1N943B	563	1N1442	1104	1N1915	1114
1N534	1104	1N696	1102	1N858	1104	1N944	563	1N1443	1114	1N1916	1114
1N535	1104	1N697	1102	1N859	1104	1N944A	563	1N1443A	1114	1N1933	563
1N536	1104	1N698	1123	1N860	1104	1N944B	563	1N1443B	1114	1N1934	564
1N537	1104	1N709B	561	1N861	1104	1N947	1104	1N1485	561	1N1934A	564
1N538	1104	1N713B	562	1N862	1104	1N948	1102	1N1486	1104	1N1934B	564
1N539	1104	1N716	563	1N863	1104	1N949	1123	1N1487	1104	1N1960	563
1N540	1104	1N716(ZENER)	563	1N864	1114	1N960	562	1N1488	1104	1N1960A	563
1N542	1123	1N716A	563	1N865	1114	1N960A	562	1N1489	1104	1N1960B	563
1N542A	1123	1N716B	563	1N866	1114	1N960B	562	1N1490	1104	1N1967	563
1N542HP	1123	1N718	564	1N867	1114	1N963	563	1N1491	1104	1N1967A	563
1N547	1104	1N718A	564	1N868	1104	1N963A	563	1N1492	1104	1N1967B	563
1N548	1114	1N718B	564	1N869	1104	1N963B	563	1N1513	563	1N1988	564
1N560	1114	1N751	565	1N870	1104	1N965	564	1N1513A	563	1N1988A	564
1N561	1114	1N751A	565	1N871	1104	1N965A	564	1N1514	564	1N1988B	564
1N564	1123	1N753A	561	1N872	1104	1N965B	564	1N1514A	564	1N2013	1141
1N568	1123	1N757A	562	1N873	1104	1N993	1102	1N1524	563	1N2014	1143
1N569	1123	1N759	563	1N874	1104	1N994	1123	1N1524A	563	1N2015	1143
1N571	1123	1N759A	563	1N875	1114	1N995	1123	1N1525	564	1N2016	1143
1N596	1104	1N760	1102	1N876	1114	1N995M	1123	1N1525A	564	1N2017	1144
1N597	1114	1N761-2	565	1N877	1114	1N996	1123	1N1556	1143	1N2018	1144
1N598	1114	1N761A	565	1N878	1114	1N997	1102	1N1557	1143	1N2019	1144
1N599	1104	1N765	563	1N879	1104	1N998	1104	1N1558	1144	1N2020	1144
1N599A	1104	1N766-1	563	1N880	1104	1N999	1102	1N1559	1144	1N2032-2	565
1N600	1104	1N767-1	564	1N881	1104	1N1008	1104	1N1561	1123	1N2037-1	563
1N600A	1104	1N770	1123	1N881B	1104	1N1028	1104	1N1562	1123	1N2037A	563
1N600KB	1102	1N771	1123	1N882	1104	1N1029	1104	1N1563	1143	1N2038-1	564
1N601											

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1N2638	1104	1N3287N	1123	1N3753	1123	1N4367	1104	1N4722R	1114	1N5216	1104
1N2650	1104	1N3287W	1123	1N3754	1104	1N4368	1104	1N4723R	1114	1N5217	1104
1N2653	1114	1N3298	1104	1N3755	1143	1N4369	1104	1N4724R	1114	1N5218	1114
1N2801	1123	1N3403	563	1N3756	1144	1N4375	1102	1N4725R	1114	1N5219	1102
1N2858	1104	1N3404	564	1N3757	1143	1N4376	1102	1N4726	1102	1N5220	1102
1N2858A	1141	1N3416	563	1N3758	1144	1N4382	1102	1N4727	1102	1N5231	565
1N2859	1143	1N3417	564	1N3773	1123	1N4383	1104	1N4733	565	1N5231A	565
1N2859A	1143	1N3435	563	1N3826	565	1N4384	1104	1N4733A	565	1N5231B	565
1N2860	1104	1N3436	564	1N3826A	565	1N4385	1104	1N4735	561	1N5234B	561
1N2860A	1143	1N3443	561	1N3828	561	1N4389	1102	1N4735A	561	1N5239B	562
1N2861	1104	1N3447	563	1N3828A	561	1N4392	1102	1N4739	562	1N5242	563
1N2861A	1144	1N3448	564	1N3855A	562	1N4395	1102	1N4739A	562	1N5242A	563
1N2862	1104	1N3465	1123	1N3864	1102	1N4395A	1102	1N4742	563	1N5242B	563
1N2862A	1144	1N3466	1123	1N3866	1143	1N4403	562	1N4742A	563	1N5245	564
1N2863	1104	1N3467	1123	1N3867	1144	1N4403A	562	1N4744	564	1N5245A	564
1N2864	1104	1N3468	1123	1N3872	1102	1N4403B	562	1N4744A	564	1N5245B	564
1N2878	1114	1N3469	1123	1N3873	1102	1N4406	563	1N4766	562	1N5282	1103
1N2879	1114	1N3470	1123	1N3874	1101	1N4406A	563	1N4766A	562	1N5315	1102
1N2880	1114	1N3471	1102	1N3875	1104	1N4406B	563	1N4767	562	1N5316	1102
1N2881	1114	1N3473	1104	1N3895	1104	1N4408	564	1N4767A	562	1N5317	1102
1N2882	1114	1N3474	1104	1N3914	1101	1N4408A	564	1N4768	562	1N5318	1102
1N2883	1114	1N3475	1104	1N3929	564	1N4408B	564	1N4768A	562	1N5319	1102
1N2951	1123	1N3476	1114	1N3938	1143	1N4444	1102	1N4769	562	1N5320	1102
1N3019	562	1N3482	1123	1N3939	1144	1N4446	1103	1N4769A	562	1N5391	1141
1N3019A	562	1N3483	1123	1N3952	1143	1N4447	1103	1N4771	562	1N5392	1114
1N3019B	562	1N3484	1123	1N3953	1102	1N4448	1103	1N4771A	562	1N5392GP	1143
1N3022	563	1N3486	1143	1N3954	1102	1N4449	1103	1N4772	562	1N5393	1143
1N3022A	563	1N3496	561	1N3956	1102	1N4450	1102	1N4772A	562	1N5393GP	1114
1N3022B	563	1N3497	561	1N3981	1143	1N4451	1102	1N4773	562	1N5394	1144
1N3024	564	1N3498	561	1N3982	1144	1N4453	1102	1N4773A	562	1N5394GP	1114
1N3024A	564	1N3499	561	1N3991	1123	1N4454	1103	1N4774	562	1N5395	1144
1N3024B	564	1N3500	561	1N4001	1104	1N4455	1102	1N4774A	562	1N5395GP	1114
1N3062	1103	1N3511	565	1N4002	1104	1N4459	561	1N4816	1141	1N5396GP	1114
1N3063	1102	1N3513	561	1N4003	1104	1N4502	1123	1N4817	1114	1N5397GP	1114
1N3064	1102	1N3520	563	1N4003GP	1104	1N4517	1143	1N4818	1114	1N5398GP	1114
1N3065	1102	1N3522	564	1N4004	1104	1N4523	1123	1N4819	1144	1N5399GP	1114
1N3066	1102	1N3537	563	1N4005	1104	1N4531	1102	1N4820	1144	1N5400	1114
1N3067	1102	1N3544	1104	1N4006	1114	1N4532	1102	1N4823	1104	1N5401	1143
1N3068	1102	1N3545	1104	1N4007	1114	1N4533	1102	1N4824	1104	1N5402	1143
1N3069	1102	1N3546	1104	1N4009	1102	1N4534	1102	1N4825	1104	1N5403	1144
1N3069M	1102	1N3547	1104	1N4011	1114	1N4536	1102	1N4827	1102	1N5404	1144
1N3070	1102	1N3548	1104	1N4043	1102	1N4547	1102	1N4828	1102	1N5413	1102
1N3071	1102	1N3549	1104	1N4087	1102	1N4548	1102	1N4829	1102	1N5414	1102
1N3072	1141	1N3550	1102	1N4088	1123	1N4549	561	1N4830	1102	1N5415	1101
1N3073	1143	1N3554	1123	1N4089	1144	1N4566A	561	1N4861	1102	1N5420	1114
1N3074	1143	1N3575	1102	1N4092	1102	1N4566	561	1N4862	1102	1N5426	1102
1N3075	1143	1N3576	1102	1N4095	565	1N4566A	561	1N4863	1102	1N5523	565
1N3076	1144	1N3577	1102	1N4103A	562	1N4567	561	1N4864	1102	1N5523A	565
1N3077	1144	1N3583	563	1N4106	563	1N4567A	561	1N4896	563	1N5523B	565
1N3078	1144	1N3583A	563	1N4106A	563	1N4568	561	1N4896A	563	1N5525B	561
1N3079	1144	1N3583B	563	1N4109	564	1N4568A	561	1N4933	1101	1N5529B	562
1N3082	1143	1N3592	1123	1N4139	1141	1N4569	561	1N4937	1104	1N5532	563
1N3083	1144	1N3593	1102	1N4140	1143	1N4569A	561	1N4938	1102	1N5532A	563
1N3094	1104	1N3594	1102	1N4141	1143	1N4570	561	1N4942	1114	1N5532B	563
1N3108	562	1N3595	1102	1N4142	1144	1N4570A	561	1N4943	1114	1N5535	564
1N3110	1123	1N3596	1102	1N4147	1102	1N4571	561	1N4944	1114	1N5535A	564
1N3112	2030	1N3598	1102	1N4148	1103	1N4571A	561	1N4949	1102	1N5535B	564
1N3121	1123	1N3599	1102	1N4149	1103	1N4572	561	1N4950	1102	1N5550	1114
1N3122	1123	1N3600	1103	1N4150	1102	1N4572A	561	1N4997	1141	1N5552	1114
1N3123	1102	1N3601	1102	1N4151	1102	1N4573	561	1N4997R	1114	1N5552	1114
1N3124	1102	1N3602	1102	1N4152	1102	1N4573A	561	1N4998	1143	1N5562	562
1N3125	1123	1N3603	1102	1N4153	1103	1N4574	561	1N4998R	1114	1N5562A	562
1N3146	1123	1N3604	1102	1N4154	1103	1N4574A	561	1N4999	1143	1N5565	563
1N3147	1102	1N3605	1102	1N4156	1102	1N4575	561	1N4999R	1114	1N5565A	563
1N3160	1104	1N3606	1102	1N4157	1102	1N4575A	561	1N5000	1144	1N5567	564
1N3183	1104	1N3607	1102	1N4161	562	1N4576	561	1N5000R	1114	1N5567A	564
1N3184	1104	1N3608	1102	1N4161A	562	1N4576A	561	1N5001R	1114	1N5605	1102
1N3185	1114	1N3609	1102	1N4161B	562	1N4577	561	1N5002R	1114	1N5606	1102
1N3186	1114	1N3611	1104	1N4164	563	1N4577A	561	1N5003R	1114	1N5607	1102
1N3189	1104	1N3612	1104	1N4164A	563	1N4578	561	1N5004	1143	1N5610	1102
1N3190	1104	1N3613	1104	1N4164B	563	1N4578A	561	1N5005	1143	1N5617	1104
1N3191	1104	1N3614	1114	1N4166	564	1N4579	561	1N5006	1144	1N5619	1104
1N3193	1104	1N3625	1102	1N4166A	564	1N4579A	561	1N5054	1114	1N5624	1143
1N3194	1104	1N3629	1104	1N4166B	564	1N4580	561	1N5054A	1114	1N5625	1144
1N3195	1104	1N3630	1104	1N4242	1102	1N4580A	561	1N5055	1143	1N5627GP	1114
1N3196	1114	1N3631	1104	1N4243	1102	1N4581	561	1N5056	1143	1N5679	1104
1N3197	1102	1N3632	1104	1N4245	1104	1N4581A	561	1N5057	1144	1N5680	1104
1N3203	1104	1N3633	1104	1N4246	1104	1N4582	561	1N5058	1144	1N5711	1102
1N3204	1123	1N3634	1104	1N4247	1104	1N4582A	561	1N5059	1114	1N5712	1102
1N3206	1102	1N3635	1114	1N4248	1114	1N4583B	561	1N5060	1114	1N5713	1102
1N3207	1102	1N3636	1114	1N4249	1114	1N4584	561	1N5061	1114	1N5719	1102
1N3221	1114	1N3637	1114	1N4250	1114	1N4584A	561	1N5062	1114	1N5729	565
1N3223	1102	1N3638	1114	1N4251	1114	1N4606	1102	1N5062(SEARS)	1102	1N5738	563
1N3227	1143	1N3639	1104	1N4305	1103	1N4607	1102	1N5170	1114	1N5740	564
1N3228	1143	1N3640	1104	1N4306	1102	1N4608	1102	1N5171	1141	1N5767	1102
1N3237	1141	1N3641	1104	1N4307	1102	1N4610	1102	1N5172	1114	1N5820	1114
1N3238	1143	1N3642	1114	1N4308	1102	1N4625	565	1N5173	1144	1N5821	1114
1N3239	1143	1N3653	1102	1N4309	1102	1N4631	562	1N5174	1144	1N5847	565
1N3240	1144	1N3654	1102	1N4311	1102	1N4634	563	1N5177	1114	1N5847A	565
1N3246	1141	1N3656	1143	1N4315	1102	1N4636	564	1N5178	1114	1N5847B	565
1N3247	1143	1N3657	1144	1N4318	1102	1N4654	565	1N5179	1102	1N5855A	562
1N3248	1143	1N3666	1102	1N4322	1102	1N4656	561	1N5190GP	1114	1N5858	563
1N3249	1144	1N3668	1102	1N4326	562	1N4660	562	1N5194	1102	1N5858A	563
1N3253	1104	1N3669	1104	1N4326A	562	1N4663	563	1N5195	1102	1N5858B	563
1N3254	1104	1N3678	562	1N4326B	562	1N4665	564	1N5196	1102	1N5861	564
1N3255	1104	1N3678A	562	1N4329	563	1N4689	565	1N5197	1141	1N5861A	564
1N3256	1114	1N3681	563	1N4329A	563	1N4699	563	1N5199	1143	1N5861B	564
1N3257	1102	1N3681A	563	1N4329B	563	1N4702	564	1N5200	1144	1N5397A	562
1N3258	1102	1N3681B									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
IR5DZ61-Y	1114	1560(RECT)	1104	1S138	1114	1S337A	563	1S746	1123	1S990AM	1123	1S1341	1104
IR5G	1104	1560P	1123	1S138(RECT)	1114	1S337E	563	1S747	1123	1S990S	564	1S1342	1104
IR5GZ61	1114	1561	1104	1S141	563	1S337Y	563	1S748	1123	1S990S(DIODE)	1102	1S1343	1104
IR5GZ61-A	1114	1562	1104	1S142	564	1S354	1123	1S750	1124	1S990S(ZENER)	564	1S1344	1104
IR5GZ61-B	1114	1563	1104	1S144	1102	1S355	1123	1S750(2)	1124	1S994A	1102	1S1345	1114
IR5GZ61-C	1114	1564	1104	1S147	1104	1S356	1123	1S750GR	1124	1S1000	1124	1S1346	1104
IR5GZ61-D	1114	1565	1104	1S148	1104	1S357	1123	1S750S	1124	1S1000A	1124	1S1347	1114
IR5GZ61-K	1114	1566	1104	1S149	1104	1S358	1104	1S755(H)	565	1S1001	1102	1S1348	1114
IR5GZ61-L	1114	1571	1104	1S150	1104	1S358A	1104	1S757A	562	1S1004	1104	1S1359	1104
IR5GZ61-OR	1114	1572	1123	1S155	1102	1S358S	1104	1S758GS	562	1S1005	1123	1S1359A	1104
IR5GZ61-Y	1114	1573	1123	1S155-1	1102	1S359	1104	1S773	1103	1S1006	1123	1S1360	1104
IR5GZ61FA-1	1114	1573A	1123	1S180	1102	1S367	1104	1S773A	1103	1S1007	1123	1S1360A	1104
IR5H	1104	1574	1123	1S180/SGB	1104	1S368	1104	1S775	1103	1S1007S	1123	1S1361	1104
IR5JZ61-A	1114	1575	1123	1S180-M	1104	1S369	1104	1S776	1103	1S1008	1123	1S1361A	1104
IR5JZ61-B	1114	1576	1123	1S180B	1102	1S370	1104	1S788	1123	1S1009	1123	1S1362	1114
IR5JZ61-C	1114	1577	1123	1S181	1102	1S371	1104	1S801	1103	1S1010	1123	1S1362A	1114
IR5JZ61-D	1114	1577H	1123	1S181-M	1104	1S372	1104	1S802	1103	1S1012	1104	1S1363	1114
IR5JZ61-K	1114	1578	1123	1S181FA	1102	1S373	1104	1S803	1103	1S1013	1104	1S1363A	1114
IR5JZ61-L	1114	1578H	1123	1S182	1102	1S374	1104	1S804	1103	1S1014	1114	1S1365	1104
IR5JZ61-OR	1114	1579	1123	1S182-M	1104	1S375	1104	1S805	1103	1S1015	1114	1S1365A	1104
IR5JZ61-V	1114	1579H	1123	1S183	1104	1S376	1104	1S806	1103	1S1021	1104	1S1366	1104
IR5-1	565	1580	1123	1S183-M	1104	1S377	1104	1S807	1103	1S1022	1104	1S1366A	1104
IR5	1104	1581	1104	1S185	1123	1S378	1104	1S808	1103	1S1023	1114	1S1367	1104
IR5D	1104	1582	1123	1S185OR	1104	1S379	1104	1S811	1104	1S1024	1114	1S1367A	1104
IR5H	1104	1583	1104	1S186	1123	1S380	1104	1S812	1104	1S1027	1104	1S1368	1114
IR5I	1104	1584	1102	1S186(FM)	1123	1S381	1104	1S813	1114	1S1028	1104	1S1368A	1114
IR5J	1104	1584H	1104	1S186G	1104	1S382	1104	1S814	1114	1S1029	1114	1S1369	1114
IR5L	1104	1585V	1104	1S187	1123	1S390	1104	1S816	1104	1S1030	1114	1S1369A	1114
IR5P	1104	1587	1123	1S187S	1123	1S393	1104	1S817	1104	1S1039	1114	1S1375	561
IR5U	1104	1588	1123	1S188	1123	1S394	1104	1S818	1114	1S1043	1104	1S1375A	561
IR5-1A	562	1589	1102	1S188A	1123	1S395	1104	1S819	1114	1S1044	1104	1S1390	561
IR5-1B	562	1590	1104	1S188AM	1123	1S396	1104	1S841	1104	1S1045	1114	1S1390A	561
IR10D3K	1102	1590R	1102	1S188AR	1123	1S397	1104	1S842	1104	1S1046	1114	1S1406	561
IR12	563	1591	1104	1S188F	1123	1S398	1114	1S843	1104	1S1052	1102	1S1406R	561
IR12A	563	1591R	1104	1S188FM	1123	1S399	1104	1S844	1104	1S-1053	1103	1S1420H	1102
IR12B	563	1592	1104	1S188FM-1	1123	1S400	1104	1S844N	1104	1S1053	1102	1S1464	1124
IR15	564	1592R	1104	1S188FM1	1123	1S401	1114	1S845	1104	1S1061	1104	1S1471	1114
IR15A	564	1593	1104	1S188FM1A	1123	1S402	1114	1S846	1104	1S1062	1104	1S1473	1102
IR15B	564	1593/SGJ	1104	1S188FM2	1123	1S404	1104	1S846N	1104	1S1063	1104	1S1474	1143
IR81	1104	1593R	1104	1S188FMA	1123	1S405	1114	1S847	1114	1S1064	1104	1S1475	1144
IR90	1104	1594	1104	1S188G	1123	1S406	1114	1S848	1114	1S1065	1114	1S1486	1104
IR96	1114	1594R	1104	1S188PM	1123	1S426	1123	1S848N	1114	1S1066	1114	1S1487	1104
IR10681	1067	1595	1104	1S188S	1123	1S426FM	1123	1S849	1104	1S1071	1114	1S1488	1143
IR10681-C	1067	1595R	1104	1S188TV	1123	1S426G	1123	1S849R	1104	1S1072	1143	1S1489	1144
IR10682	1067	1596	1114	1S189	1123	1S426GFM	1123	1S849R	1104	1S1073	1144	1S1514	1102
IR10683	1067	1596R	1114	1S190	565	1S428	1123	1S850	1114	1S1076	1114	1S1515	1102
IR10684	1067	1597	1114	1S197	563	1S430	1141	1S850N	1114	1S1096	1104	1S1516	1102
IR10684I	1067	1597R	1114	1S200	1123	1S431	1143	1S851	1123	1S1121	1171	1S1532	1102
IR106D1	1020	1598	1114	1S204	1104	1S432	1143	1S854	1144	1S1123	1173	1S1546	1104
IR106D2	1020	1598R	1114	1S205	1104	1S434	1144	1S871	1104	1S1124	1173	1S1547	1104
IR106D3	1020	1599	1114	1S206	1104	1S441	1123	1S871A	1104	1S1146	1104	1S1548	1104
IR106D4	1020	1599A	1104	1S207	1104	1S442	1123	1S871B	1114	1S1147	1103	1S1549	1124
IR106D4I	1020	1599R	1104	1S208	1104	1S444	1102	1S871C	1114	1S1158	1102	1S1553	1103
IR14	1103	1S100	1104	1S209	1104	1S446	1123	1S872	1104	1S1177	564	1S1553(TV)	1102
IRCS	1067	1S100R	1104	1S210	1114	1S-446D	1123	1S872A	1104	1S1201	561	1S1554	1102
IRC10	1067	1S101	1104	1S210/25J6A	1114	1S446D	1123	1S872B	1114	1S1207	1102	1S1555	1102
IRC20	1067	1S101R	1104	1S211	1114	1S447	1123	1S872C	1114	1S1208	1104	1S1555(TV)	1102
IRC30	1020	1S102	1104	1S211/25J8A	1114	1S447P	1123	1S881	1104	1S1213	1102	1S1555-1	1102
IRC40	1020	1S102R	1104	1S211A	1114	1S448	1123	1S881A	1104	1S1214	1102	1S1555-5	1102
IRE10	1104	1S103	1104	1S217	562	1S449	1123	1S881B	1114	1S1215	1102	1S-1555-Z	1102
IRLD	1171	1S103R	1104	1S218	1102	1S451	1123	1S881C	1114	1S1216	1102	1S1555-Z	1102
IROE	1102	1S104	1104	1S227	563	1S452	1123	1S882	1104	1S1217	1102	1S1555FA1	1102
IROF	1104	1S104R	1104	1S230	564	1S453	1123	1S882A	1104	1S1218	1102	1S-1555V	1102
IROH	1104	1S105	1104	1S268T	1104	1S454	1123	1S882B	1114	1S1218GR	1102	1S1555V	1102
IR-TR24	2010	1S105R	1104	1S301.5	564	1S455	1123	1S882C	1114	1S1219	1102	1S1555Z	1102
IR-TR25	2010	1S106	1104	1S306	1102	1S456	1104	1S885	1104	1S1219H	1103	1S1580	1102
IRTR51	2016	1S106A	1104	1S306M	1103	1S457	1104	1S887	1104	1S1220	1102	1S1585	1102
IS005	1104	1S106R	1104	1S307	1102	1S458	1104	1S920	1102	1S1221	1104	1S1586	1102
IS016	1104	1S107	1114	1S309	1104	1S459	1104	1S921	1102	1S1222	1104	1S1587	1102
IS020	1143	1S107R	1114	1S310	1104	1S460	1103	1S921(RECT)	1143	1S1223	1114	1S1588	1103
IS021	1143	1S108	1114	1S310H	1104	1S461	1103	1S922	1144	1S1224	1104	1S1588-FM	1123
IS023	1144	1S108R	1114	1S311H	1104	1S465	1103	1S922(DIODE)	1102	1S1225	1114	1S1588V	1103
IS030	1141	1S109	1114	1S311N	1104	1S466	1123	1S922(RECT)	1144	1S1225A	1114	1S1589	1102
IS031	1143	1S109R	1114	1S312	1104	1S467R	1123	1S923	1102	1S1230	1104	1S1597	1104
IS032	1143	1S110	1104	1S312A	1104	1S482	562	1S926G	1123	1S1230H	1104	1S1598	1104
IS034	1144	1S110A	1104	1S312H	1102	1S500	1103	1S941	1102	1S1231	1104	1S1599	1104
IS054	1104	1S111	1104	1S313	1104	1S501	1103	1S941/4454C	1104	1S1231H	1104	1S1600	1104
IS058	1114	1S112	1104	1S313H	1104	1S501M	1103	1S942	1102	1S1232	1104	1S1601	1104
IS1-0336-00-A	2041	1S113	1104	1S314	1104	1S542	1123	1S943	1104	1S1232H	1104	1S1602	1104
IS1Z09	1104	1S113A	1104	1S314H	1104	1S543	1124	1S946	1104	1S1232N	1104	1S1604	1104
IS11	1123	1S114	1104	1S314N	1104	1S548	1103	1S947	1104	1S1233	1114	1S1605	1114
IS12	1123	1S115	1104	1S315	1104	1S552	1103	1S948	1104	1S1233H	1114	1S1608	1114
IS13	1123	1S116	1104	1S315FRIMD	1114	1S557	1114	1S949	1114	1S1233N	1114	1S1621	1102
IS14	1123	1S117	1114	1S315H	1104	1S557H	1114	1S950	1114	1S1234	1114	1S1621-O	1102
IS15	1123	1S118	1104	1S316	1114	1S558	1104	1S951	1102	1S1234H	1114	1S1621-R	1102
IS16	1123	1S119	1104	1S318	1123	1S559	1104	1S952	1102	1S1234N	1114	1S1621-Y	1102
IS17	1123	1S120	1104	1S319	1123	1S560	1102						

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1S1684	1104	1S1891	1114	1S2279	1104	1S2618	1114	1SR16-50	1141	1T2011	1104
1S1685	1104	1S1892	1114	1S2304	565	1S2675	1104	1SR16-100	1143	1T2012	1104
1S1686	1104	1S1906	1104	1S2310	1104	1S2676	1104	1SR16-200	1143	1T2013	1104
1S1687	1104	1S1914	1143	1S2311	1114	1S2692AB	1103	1SR16-400	1144	1T2014	1104
1S1688	1114	1S1915	1143	1S2312	1114	1S2757	1104	1SR17-50	1141	1T2015	1104
1S1689	1114	1S1916	1144	1S2313	1104	1S2760	1141	1SR17-100	1143	1T2016	1104
1S1690	1123	1S1922	1124	1S2314	1114	1S2761	1143	1SR17-200	1143	1T20105	1104
1S1690A	1104	1S1922G	1124	1S2315	1114	1S2762	1143	1SR17-400	1144	1TA6.2	561
1S1691	1104	1S1925	1124	1S2316	1104	1S2763	1144	1SR30-200	1104	1TA6.2A	561
1S1691A	1104	1S1926	1124	1S2317	1104	1S2764	1144	1SR30-400	1114	1TA6.2B	561
1S1692A	1104	1S1926K	1124	1S2330	1144	1S2769	561	1SR30-600	1104	1TA9.1	562
1S1693	1104	1S1928	1124	1S2351	1104	1S2770	561	1SR31-800	2023	1TA9.1A	562
1S1693A	1104	1S1941	1104	1S2352	1104	1S2771	561	1SR31-1000	1114	1TA12	563
1S1694A	1104	1S1942	1104	1S2353	1114	1S2774	561	1SR34	1103	1TA12A	563
1S1695	1114	1S1943	1104	1S2354	1114	1S2775	1104	1SR35	1103	1TA15	564
1S1695A	1104	1S1944	1114	1S2355	1104	1S2775A-1	1104	1SR55-50	1114	1TA15A	564
1S1696	1104	1S1948	1104	1S2357	1104	1S2776	1114	1SR55-100	1114	1TB06	1104
1S1696A	1104	1S1949	1104	1S2358	1104	1S2777	1104	1SR55-200	1104	1TS05	1104
1S1697	1104	1S1950	1104	1S2359	1104	1S2779	1144	1SR70-100	1171	1TV24237	1101
1S1698	1104	1S1955	565	1S2361	1104	1S2788	1102	1SR70-400	1173	1US85F	2009
1S1699	1759	1S1959	562	1S2362	1104	1S2788B	1102	1SR77-200	1104	1US85F/7825B	2009
1S1700	1759	1S1962	563	1S2363	1104	1S2791	1114	1SR77-400	1114	1V3074A20	1104
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1S1711	1103	1S1973	1103	1S2365	1114	1S2828A	1144	1SR77-1000	1114	1V9002	1123
1S1712	1103	1S1991	1143	1S2367	1104	1S2832	1104	1SR78-200	1104	1V68611A47	2023
1S1712A	1103	1S1992	1143	1S2371	1171	1S2833	2023	1SR78-400	1114	1V68611A47A	2023
1S1713	1103	1S1993	1102	1S2371A	1171	1S3009	562	1SR79-800	2023	1VA10	1104
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1S1717L	562	1S2019	1114	1S2373A	1173	1S3016(RECT)	1104	1SS19	1103	1W8995A	2030
1S1718	562	1S2051	565	1S2374	1104	1S3016R	1104	1SS30	1103	1W9148	2023
1S1720	1114	1S2051A	565	1S2375	1104	1S3076	1102	1SS31	1103	1W9640	2023
1S1720R	1114	1S2051B	565	1S2375A	1173	1S3195	1104	1SS49	1103	1W9640A	2023
1S1721	1124	1S2063	1114	1S2376	1104	1S3305	565	1SS50	1103	1W9723	2009
1S1722	1124	1S2070	1103	1S2377	1114	1S3585	1123	1SS51	1103	1W9728	2023
1S1723	1104	1S2071	1103	1S2379	1144	1S4266	1123	1SS53	1102	1W9728A	2023
1S1724	1104	1S2074H	1102	1S2390	1104	1S4266FM	1123	1SS54	1103	1W9782	2023
1S1724R	1104	1S2075	1102	1S2391	1104	1S4735	565	1SS55	1103	1W9782A	2023
1S1725	1104	1S2075K	1103	1S2392	1104	1S4544	1123	1SS56	1103	1W9787	2009
1S1725R	1104	1S2076	1103	1S2393	1104	1S7051	565	1SS78	1124	1W9810	2023
1S1726	1104	1S2076-27	1103	1S2394	1104	1S7051A	565	1SS81	1102	1W9810A	2023
1S1726R	1104	1S2076-TF1	1103	1S2395	1104	1S7051B	565	1SS82	1104	1W9810S	2023
1S1727	1104	1S2076-TF1	1103	1S2396	1104	1S7120	563	1SS83	1102	1W9810SA	2023
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1S1728	562	1S2076A-07	1103	1S2398	1114	1S7120B	563	1SS119	1103	1W11700A	2023
1S1728R	1104	1S2080	1104	1S2399	1114	1S7150	564	1SS133	1103	1W11702	2023
1S1729	1104	1S2081	1104	1S2400	1114	1S7150A	564	1SV34	1103	1W11702A	2023
1S1729R	1104	1S2091	1102	1S2401	1104	1S7150B	564	1SV35	1103	1W11708-1	2009
1S1730	1104	1S2091(DIODE)	1102	1S2402	1104	1S9413	1104	1SZ40-12	563	1W11708-2	2009
1S1730R	1104	1S2091-BK	1102	1S2403	1114	1S9908	1123	1SZ40-15	564	1W11711	2023
1S1731	1114	1S2091-BL	1102	1S2404	1104	1S11941	1102	1T2C1	1104	1W11711A	2023
1S1731R	1114	1S2091-W	1102	1S2405	1114	1S15188	1103	1T221	1104	1WB-5A	565
1S1732	1114	1S2091BK	1102	1S2406	1114	1S15551	1102	1T6.2	561	1WB-1SD	564
1S1732R	1114	1S2091BL	1102	1S2408	1141	1S19413	1104	1T6.2B	561	1WMB	1104
1S1734	565	1S2091W	1102	1S2409	1114	1S19413T	1104	1T9.1	562	1WWS1	1114
1S1735	561	1S2092	1102	1S2410	1143	1S20751C	1102	1T9.1A	562	1WS2	1114
1S1739	563	1S2095A	1103	1S2411	1144	1S21447	1103	1T9.1B	562	1WS4	1144
1S1740	564	1S2097	1102	1S2412	1144	1S801-02	1104	1T12	563	1WS8	1114
1S1766	565	1S2098	1102	1S2415	1141	1SC683	2016	1T12A	563	1WS10	1114
1S1772	564	1S2099	1103	1S2416	1143	1SC929	2016	1T12B	563	1X9179	1102
1S1801-02	1103	1S2112AFA-1	561	1S2417	1143	1SC2367	1102	1T13	1124	1X9805	1102
1S1807	1124	1S2116	562	1S2418	1144	1SD-2	1104	1T13A	1124	1X9809	1102
1S1821R	1114	1S2116A	562	1S2419	1144	1SD2	1104	1T13B	1124	1Z5.1	565
1S1825	1102	1S2119	563	1S2452	561	1SD1212	1104	1T15	564	1Z5.1A	565
1S1829	1114	1S2119A	563	1S2453	561	1SZ09	1104	1T15B	564	1Z5.1TS	565
1S1829A	1114	1S2120	563	1S2454	561	1S1885	1104	1T19-15B	564	1Z5.1T10	565
1S1829B	1114	1S2121	564	1S2455	1143	1S-M2511-8010S-035B	1103	1T22	1123	1Z6.2	561
1S1829C	1114	1S2121A	564	1S2456	1143	1T22(A)	1103	1T22A	1123	1Z6.2A	561
1S1829D	1114	1S2124	1104	1S2457	1144	1S-M2511-8010S035B	1102	1T22A	1123	1Z6.2TS	561
1S1829K	1114	1S2127	563	1S2460	1102	1T22AJ	1103	1T22AJ	1123	1Z6.2T10	561
1S1829L	1114	1S2134	1103	1S2461	1102	1SO30	1104	1T22AM	1123	1Z6.2T20	561
1S1829Y	1114	1S2138	563	1S2462	1102	1SO31	1104	1T22B	1123	1Z9.1	562
1S1830	1114	1S2140	1104	1S2463	1104	1SO32	1104	1T22C	1123	1Z9.1A	562
1S1830A	1114	1S2144	1102	1S2471	1103	1SO34	1104	1T23	1123	1Z9.1B	562
1S1830B	1114	1S2144A	1102	1S2472	1103	1SO36	1104	1T23A	1123	1Z9.1C	562
1S1830C	1114	1S2144Z	1102	1S2473	1103	1SO38	1114	1T23B	1123	1Z9.1D5	562
1S1830D	1114	1S2145	1103	1S2473-T72	1103	1SO54	1104	1T23G	1123	1Z9.1D10	562
1S1830K	1114	1S2150	564	1S2473H	1103	1SO58	1114	1T23J	1123	1Z9.1D15	562
1S1830L	1114	1S2150A	564	1S2473HC	1103	1SR1FM4	1104	1T23M	1123	1Z9.1T5	562
1S1830Y	1114	1S2186GR	1102	1S2473I	1103	1SR1K	1104	1T26	1123	1Z9.1T10	562
1S1834	1104	1S2187	1124	1S2473K	1103	1SR11-100	1114	1T26-2	1123	1Z9.1T20	562
1S1835	1104	1S2196	563	1S2473T	1102	1SR11-200	1104	1T40	1102	1Z12	563
1S1845	1104	1S2198	1124	1S2473VE	1103	1SR11-400	1114	1T188	1123	1Z12A	563
1S1845A	1104	1S2198HC	1124	1S2479	1123	1SR11-600	1104	1T205A	2007	1Z12B	563
1S1845B	1104	1S2212	1103	1S2487	565	1SR12-50	1114	1T213	1123	1Z12C	563
1S1845C	1114	1S2226	1104	1S2489	561	1SR12-100	1114	1T229-2	1104	1Z12T5	563
1S1845D	1114	1S2227	1104	1S2493	562	1SR12-200	1104	1T231	1123	1Z12T10	563
1S1846	1104	1S2228	1104	1S2496	563	1SR12-400	1114	1T236	1123	1Z12T20	563
1S1846A	1104	1S2229	1104	1S2547	561	1SR12-600	1104	1T240	1123	1Z15	564
1S1846B	1104	1S2230	1104	1S2550	562	1SR12-800	2023	1T240A	1123	1Z15A	564
1S1846C	1114	1S2231	1114	1S2553	563	1SR12-1000	1114	1T243	1102	1Z15B	564
1S1846D	1114	1S2238	1104	1S2588	1103	1SR13-50	1114	1T243M	562	1Z15C	564
1S1848	1104	1S2241	1104	1S2589	1103	1SR13-100	1114	1T261	1123	1Z15D	564
1S1849	1104	1S2242	1104	1S2590	1104	1SR13-200	1104	1T262	1123	1Z15D5	564
1S1849R	1104	1S2243	1104	1S2591	1104	1SR13-400	1114	1T378	1104	1Z15D10	564
1S1850	1104	1S2244	1104	1S2596	1143	1SR13-600	1104	1T501	1104	1Z15D20	564
1S1850R	1104	1S2245	1104	1S2597	1102	1SR13-800	2023	1T502	1104	1Z15T5	564
1S1851	1104	1S2246	1104	1S2602	1104						

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2C291 (TRANSISTOR)		2G322	2007	2N49	2007	2N151	2007	2N300	2007	2N408	2007
2C291	2030	2G323	2007	2N50	2007	2N159	2007	2N301G	2007	2N408J	2007
2C291	2041	2G324	2007	2N51	2007	2N160	2009	2N302	2007	2N408WHT	2007
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2CY33	2061	2G374A	2007	2N58	2007	2N163	2009	2N315	2007	2N413A	2007
2CY34	2061	2G376	2007	2N59	2007	2N163A	2009	2N315A	2007	2N414	2007
2CY38	2023	2G377	2007	2N59A	2007	2N175	2007	2N315B	2007	2N414A	2007
2CY39	2023	2G381	2007	2N59B	2007	2N180	2007	2N316	2007	2N414B	2007
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2D002-148	2009	2G382	2007	2N59D	2007	2N185	2007	2N317	2007	2N415	2007
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2D002-175	2009	2G385	2007	2N60B	2007	2N186A	2007	2N319	2007	2N417	2007
2D-02	1104	2G386	2007	2N60C	2007	2N187	2007	2N320	2007	2N422	2007
2D010	2041	2G387	2007	2N60R	2007	2N187A	2007	2N321	2007	2N422A	2007
2D013	2007	2G394	2007	2N61	2007	2N188	2007	2N322	2007	2N425	2007
2D013-13	2007	2G395	2007	2N61A	2007	2N188A	2007	2N323	2007	2N426	2007
2D013-54	2007	2G396	2007	2N61B	2007	2N189	2007	2N324	2007	2N427	2007
2D013-109	2007	2G397	2007	2N61C	2007	2N190	2007	2N327	2007	2N427A	2007
2D013-160	2007	2G401	2007	2N62	2007	2N191	2007	2N327A	2007	2N428	2007
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2D016-45	2007	2G403	2007	2N64	2007	2N195	2007	2N331M	2007	2N431	2009
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2D017	2023	2G413	2007	2N71	2007	2N197	2007	2N332A	2009	2N433	2009
2D017-165	2023	2G414	2007	2N72	2007	2N198	2007	2N333	2009	2N439A	2007
2D017-166	2023	2G415	2007	2N73	2007	2N199	2007	2N333A	2009	2N450	2007
2D017-167	2023	2G416	2007	2N74	2007	2N200	2007	2N334	2009	2N450A	2007
2D017-169	2023	2G417	2007	2N75	2007	2N204	2007	2N334A	2009	2N461	2007
2D020	2061	2G509	2007	2N76	2007	2N205	2007	2N334B	2009	2N462	2007
2D020-173	2061	2G524	2007	2N79	2007	2N206	2007	2N335	2009	2N464	2007
2D020-174	2061	2G525	2007	2N80	2007	2N207	2007	2N335A	2009	2N465	2007
2D021	2007	2G526	2007	2N81	2007	2N207A	2007	2N335B	2009	2N466	2007
2D021-8	2007	2G527	2007	2N82	2007	2N207B	2007	2N336	2009	2N467	2007
2D021-11	2007	2G577	2007	2N82AG	1124	2N207BLU	2007	2N336A	2009	2N468	2007
2D021-56	2007	2G601	2007	2N83	2007	2N211M2	2007	2N337	2009	2N470	2009
2D023	2007	2G602	2007	2N84	2007	2N215	2007	2N337A	2009	2N471	2009
2D024	2009	2G603	2007	2N85	2007	2N217	2007	2N338	2009	2N471A	2009
2D024-274	2009	2G604	2007	2N86	2007	2N217A	2007	2N338A	2009	2N472	2009
2D027	2023	2G605	2007	2N87	2007	2N217RED	2007	2N339	2030	2N472A	2009
2D031	2062	2G808	1104	2N88	2007	2N217WHT	2007	2N339A	2030	2N473	2009
2D033	2059	2G1024	2007	2N89	2007	2N217YEL	2007	2N339C-U29	2009	2N474	2009
2D036	2007	2G1025	2007	2N90	2007	2N218	2007	2N340	2030	2N474A	2009
2D039	2007	2G1026	2007	2N96	2007	2N219	2007	2N340A	2030	2N475	2009
2D	2007	2G1027	2007	2N104	2007	2N220	2007	2N342	2030	2N475A	2009
2D41	1067	2G3055	2041	2N105	2007	2N222	2007	2N342A	2030	2N476	2009
2D165	1102	2GA	1104	2N106	2007	2N222A	2007	2N342B	2030	2N476A	2010
2D02	1123	2GL05	2007	2N107	2007	2N223	2007	2N343	2030	2N477	2009
2D033	2009	2GU026	2007	2N108	2007	2N224	2007	2N343A	2030	2N477A	2061
2E05	1104	2H1254	2023	2N109	2007	2N225	2007	2N344	2007	2N478	2009
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2E1	1104	2H1258	2023	2N109BLU	2007	2N227	2007	2N346	2007	2N479	2009
2E1A20A22AA8	2030	2H1259	2023	2N109GRN	2007	2N231	2007	2N355	2061	2N479A	2009
2E2	1114	2HR3J	1114	2N109M1	2007	2N231-YEL-RED	2007	2N359	2007	2N480	2009
2E4	1104	2HR3M	1114	2N109M2	2007	2N231BLU	2007	2N360	2007	2N480A	2009
2E6	1114	2ISD235-R	2020	2N109WHT	2007	2N231RED	2007	2N361	2007	2N480B	2030
2E8	1114	2J72	2007	2N109YEL	2007	2N231YEL	2007	2N362	2007	2N481	2007
2E10	1114	2J73	2007	2N111	2007	2N232	2007	2N362B	2007	2N482	2007
2E003	1114	2J8138	1104	2N111A	2007	2N237	2007	2N363	2007	2N483	2007
2E005	1114	2JAW961	2009	2N111B	2007	2N238	2007	2N367	2007	2N483-6M	2007
2E015	1114	2K02	1114	2N111M1	2007	2N238-ORN	2007	2N368	2007	2N483-B	2007
2E06	1114	2K48	2007	2N111M2	2007	2N238D	2007	2N369	2007	2N483B	2007
2E08	1114	2M1127	2007	2N112	2007	2N238E	2007	2N370	2007	2N484	2007
2E010	1114	2M1305	2007	2N112A	2007	2N238F	2007	2N370/33	2007	2N485	2007
2F05	1141	2M6219	2010	2N112M1	2007	2N240	2007	2N370A	2007	2N486	2007
2F	2007	2MC	2007	2N113	2007	2N241	2007	2N371	2007	2N486B	2007
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2F2CN6	1114	2MW445	1123	2N117	2009	2N247/33	2007	2N372	2007	2N497	2030
2F4	1104	2MW742	561	2N117(TI)	2061	2N248	2007	2N372/33	2007	2N497A	2030
2F5CN1	1114	2NG374	2007	2N118	2009	2N249	2007	2N373	2007	2N498	2030
2F6	1114	2NJ324	2030	2N118(TI)	2061	2N252	2007	2N374	2007	2N499	2007
2F8	1114	2N15	2007	2N118A	2009	2N262	2007	2N381	2007	2N499A	2007
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2G	2007	2N25	2007	2N119(TI)	2061	2N265	2007	2N384	2007	2N500RED	2007
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2G101	2007	2N30	2007	2N123	2007	2N269	2007	2N393	2007	2N501/18	2007
2G102	2007	2N31	2007	2N123(GE)	2007	2N270	2007	2N394	2007	2N501A	2007
2G103	2007	2N32	2007	2N123/5	2007	2N270-5E	2007	2N394A	2007	2N502	2007
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2G106	2007	2N33	2007	2N123A5	2007	2N270M	2007	2N396	2007	2N502B	2007
2G108	2007	2N34	2007	2N128	2007	2N271	2007	2N396A	2007	2N502BRN	2007
2G109	2007	2N34A	2007	2N129	2007	2N271A	2007	2N397	2007	2N502GRN	2007
2G110	2007	2N36	2007	2N130	2007	2N272	2007	2N402	2007	2N502RED	2007
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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2SA288Y	2007	2SA294Y	2007	2SA305L	2007	2SA312J	2007	2SA321R	2007	2SA330	2007
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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2SB428X	2007										

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25C114M	2030	25C120GN	2009	25C130J	2030	25C137J	2009	25C151B	2009	25C159C	2009
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25C114Y	2030	25C120M	2009	25C130OR	2030	25C137OR	2009	25C151G	2009	25C159GN	2009
25C115	2030	25C120R	2009	25C130R	2030	25C137R	2009	25C151GN	2009	25C159H	2009
25C115-1	2030	25C120Y	2009	25C130X	2030	25C137X	2009	25C151H	2009	25C159J	2009
25C115-2	2030	25C121	2030	25C130Y	2030	25C137Y	2009	25C151HA	2009	25C159K	2009
25C115-3	2030	25C121A	2016	25C131	2009	25C138	2009	25C151J	2009	25C159L	2009
25C115-43	2030	25C121B	2030	25C131A	2009	25C138A	2009	25C151K	2009	25C159M	2009
25C115A	2030	25C121C	2030	25C131B	2009	25C138B	2009	25C151L	2009	25C159OR	2009
25C115B	2030	25C121D	2030	25C131C	2009	25C138C	2009	25C151M	2009	25C159R	2009
25C115C	2030	25C121E	2030	25C131D	2009	25C138D	2009	25C151OR	2009	25C159X	2009
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25C115E	2030	25C121G	2030	25C131F	2009	25C138F	2009	25C151X	2009	25C160	2009
25C115F	2030	25C121GN	2030	25C131G	2009	25C138G	2009	25C151Y	2009	25C160A	2009
25C115G	2030	25C121H	2030	25C131GN	2009	25C138GN	2009	25C162	2009	25C160B	2009
25C115GN	2030	25C121J	2030	25C131H	2009	25					

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25C174OR	2059	25C191H	2009	25C197H	2009	25C205G	2009	25C216D	2030	25C225E	2030	25C237F	2009
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25C174S	2059	25C191L	2009	25C197L	2009	25C205J	2009	25C216G	2030	25C225GN	2030	25C237H	2009
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25C174Y	2009	25C191OR	2009	25C197OR	2009	25C205L	2009	25C216H	2030	25C225J	2030	25C237K	2009
25C186	2010	25C191R	2009	25C197R	2009	25C205M	2009	25C216J	2030	25C225L	2030	25C237L	2009
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25C186E	2010	25C192B	2009	25C199	2009	25C206	2016	25C216R	2030	25C225Y	2030	25C237Y	2009
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25C186G	2010	25C192D	2009	25C199B	2009	25C206A	2016	25C216Y	2030	25C226A	2030	25C238A	2009
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25C188	2030	25C194	2009	25C200R	2009	25C208M	2016	25C218M	2030	25C227X	2030	25C239OR	2009
25C188A	2030	25C194A	2009	25C200X	2009	25C208CR	2016	25C218OR	2030	25C227Y	2030	25C239R	2009
25C188AB	2030	25C194B	2009	25C200Y	2009	25C208R	2016	25C218R	2030	25C228	2030	25C239X	2009
25C188B	2030	25C194C	2009	25C201	2009	25C208X	2016	25C218X	2030	25C228A	2030	25C239Y	2009
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25C188J	2030	25C194J	2009	25C201G	2009	25C210E	2030	25C220E	2030	25C228GN	2030	25C240F	2041
25C188K	2030	25C194K	2009	25C201GN	2009	25C210F	2030	25C220F	2030	25C228H	2030	25C240G	2041
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25C189C	2030	25C195D	2009	25C202A	2009	25C210X	2030	25C220Y	2030	25C229	2030	25C240Y	2041
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25C190	2030	25C196A	2009	25C202X	2009	25C211							

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25C247D	2030	25C268	2030	25C282E	2009	25C291R	2030	25C308GN	2030	25C317D	2009
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25C247Y	2030	25C268K	2030	25C282OR	2009	25C300G	2009	25C309B	2030	25C317X	2009
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25C248J	2009	25C269C	2010	25C283F	2009	25C300Y	2009	25C309L	2030	25C318G	2009
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25C250H	2009	25C272A	2010	25C286A	2010	25C302R	2009	25C313GN	2016	25C323A	2009
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25C250Y	2009	25C272H	2010	25C286H	2010	25C306E	2030	25C313X	2016	25C323H	2009
25C254	2030	25C272J	2010	25C286J	2010	25C306F	2030	25C313Y	2016	25C323J	2009
25C255	2030	25C272K	2010	25C286K	2010	25C306G	2030	25C315	2009	25C323K	2009
25C256	2030	25C272L	2010	25C286L	2010	25C306GN	2030	25C315A	2009	25C323L	2009
25C263	2010	25C272M	2010	25C286M	2010	25C306H	2030	25C315B	2009	25C323M	2009
25C263A	2010	25C272OR	2010	25C286OR	2010	25C306J	2030	25C315C	2009	25C323OR	2009
25C263B	2010	25C272R	2010	25C286R	2010	25C306K	2030	25C315D	2009	25C323R	2009
25C263C	2010	25C272X	2010	25C286X	2010	25C306L	2030	25C315E	2009	25C323X	2009
25C263D	2010	25C272Y	2010	25C286Y	2010	25C306M	2030	25C315F	2009	25C323Y	2009
25C263E	2010	25C280	2016	25C289	2010	25C306OR	2030	25C315G	2009	25C324	2009
25C263F	2010	25C280AO	2009	25C289A	2010	25C306R	2030	25C315GN	2009	25C324A	2009
25C263G	2010	25C281	2009	25C289B	2010	25C306X	2030	25C315H	2009	25C324B	2009
25C263GN	2010	25C281(B)	2009	25C289C	2010	25C306Y	2030	25C315J	2009	25C324C	2009
25C263H	2010	25C281-OR	2009	25C289D	2010	25C307	2030	25C315K	2009	25C324D	2009
25C263J	2010	25C281A	2009	25C289E	2010	25C307(CB-FINAL)	2030	25C315L	2009	25C324E	2009
25C263K	2010	25C281B	2009	25C289F	2010	25C307-OR	2030	25C315M	2009	25C324F	2009
25C263L	2010	25C281BL	2009	25C289G	2010	25C307A	2030	25C315OR	2009	25C324G	2009
25C263M	2010	25C281C	2009	25C289GN	2010	25C307B	2030	25C315R	2009	25C324GN	2009
25C263OR	2010	25C281C-EP	2009	25C289H	2010	25C307C	2030	25C315X	2009	25C324H	2009
25C263R	2010	25C281D	2009	25C289J	2010	25C307D	2030	25C315Y	2009	25C324HA	2009
25C263X	2010	25C281E	2009	25C289K	2010	25C307E	2030	25C316	2009	25C324J	2009
25C263Y	2010	25C281EP	2009	25C289L	2010	25C307F	2030	25C316A	2009	25C324K	2009
25C264	2009	25C281F	2009	25C289M	2010	25C307G	2030	25C316B	2009	25C324L	2009
25C265	2009	25C281G	2009	25C289OR	2010	25C307GN	2030	25C316C	2009	25C324M	2009
25C267	2009	25C281GN	2009	25C289R	2010	25C307H	2030	25C316D	2009	25C324OR	2009
25C267A	2009	25C281H	2009	25C289X	2010	25C307J	2030	25C316E	2009	25C324R	2009
25C267B	2009	25C281HA	2009	25C289Y	2010	25C307K	2030	25C316F	2009	25C324X	2009
25C267C	2009	25C281HB	2009	25C291	2030	25C307L	2030	25C316G	2009	25C324Y	2009
25C267D	2009	25C281HC	2009	25C291A	2030	25C307M	2030	25C316GN	2009	25C325	2009
25C267E	2009	25C281J	2009	25C291B	2030						

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2SC354E	2009	2SC366H	2009	2SC370E	2009	2SC373GN	2009	2SC377X	2009	2SC380YEL	2009
2SC354F	2009	2SC366J	2009	2SC370F	2009	2SC373GR	2009	2SC377Y	2009	2SC381	2010
2SC354G	2009	2SC366K	2009	2SC370G	2009	2SC373H	2009	2SC378	2009	2SC381(BN)	2010
2SC354GN	2009	2SC366L	2009	2SC370GN	2009	2SC373J	2009	2SC378-O	2009	2SC381-O	2010
2SC354H	2009	2SC366M	2009	2SC370H	2009	2SC373K	2009	2SC378-ORG	2009	2SC381-BN	2010
2SC354J	2009	2SC366O	2009	2SC370I	2009	2SC373L	2009	2SC378-R	2009	2SC381-BRN	2010
2SC354K	2009	2SC366OR	2009	2SC370J	2009	2SC373M	2009	2SC378-RED	2009	2SC381-O	2010
2SC354L	2009	2SC366R	2009	2SC370K	2009	2SC373OR	2009	2SC378-Y	2009	2SC381-OR	2010
2SC354M	2009	2SC366X	2009	2SC370L	2009	2SC373R	2009	2SC378-YEL	2009	2SC381-ORG	2010
2SC354OR	2009	2SC366Y	2009	2SC370M	2009	2SC373S	2009	2SC378A	2009	2SC381-R	2010
2SC354R	2009	2SC367	2009	2SC370OR	2009	2SC373W	2009	2SC378B	2009	2SC381-RED	2010
2SC354X	2009	2SC367-O	2009	2SC370R	2009	2SC373X	2009	2SC378C	2009	2SC381A	2010
2SC354Y	2009	2SC367-ORG-G	2009	2SC370X	2009	2SC373Y	2009	2SC378D	2009	2SC381B	2010
2SC360	2009	2SC367-R	2009	2SC370Y	2009	2SC374	2016	2SC378E	2009	2SC381BN	2010
2SC360-OR	2009	2SC367-RED-G	2009	2SC371	2009	2SC374(BL)	2016	2SC378F	2009	2SC381BN-I	2010
2SC360A	2009	2SC367-Y	2009	2SC371(O)	2009	2SC374(V)	2016	2SC378G	2009	2SC381BRN	2010
2SC360B	2009	2SC367-YEL-G	2009	2SC371(O)	2009	2SC374-BL	2016	2SC378GN	2009	2SC381C	2010
2SC360C	2009	2SC367A	2009	2SC371-O	2009	2SC374-OR	2016	2SC378H	2009	2SC381D	2010
2SC360D	2009	2SC367AO	2009	2SC371-O	2009	2SC374-V	2016	2SC378J	2009	2SC381E	2010
2SC360E	2009	2SC367AR	2009	2SC371-OR	2009	2SC374A	2016	2SC378K	2009	2SC381F	2010
2SC360F	2009	2SC367AY	2009	2SC371-ORG-G	2009	2SC374B	2016	2SC378L	2009	2SC381G	2010
2SC360G	2009	2SC367B	2009	2SC371-R	2009	2SC374BL	2016	2SC378M	2009	2SC381GN	2010
2SC360GN	2009	2SC367C	2009	2SC371-R-1	2009	2SC374BLK	2016	2SC378O	2009	2SC381H	2010
2SC360H	2009	2SC367D	2009	2SC371-RED-G	2009	2SC374C	2016	2SC378OR	2009	2SC381I	2010
2SC360J	2009	2SC367E	2009	2SC371-T	2009	2SC374D	2016	2SC378R	2009	2SC381K	2010
2SC360K	2009	2SC367F	2009	2SC371A	2009	2SC374E	2016	2SC378X	2009	2SC381L	2010
2SC360L	2009	2SC367G	2009	2SC371B	2009	2SC374F	2016	2SC378Y	2009	2SC381M	2010
2SC360M	2009	2SC367GN	2009	2SC371C	2009	2SC374G	2016	2SC379	2009	2SC381O	2010
2SC360OR	2009	2SC367G-O	2009	2SC371D	2009	2SC374GN	2016	2SC379A	2009	2SC381OR	2010
2SC360R	2009	2SC367G-R	2009	2SC371E	2009	2SC374H	2016	2SC379B	2009	2SC381R	2010
2SC360X	2009	2SC367G-Y	2009	2SC371F	2009	2SC374J	2016	2SC379C	2009	2SC381RED	2010
2SC360Y	2009	2SC367H	2009	2SC371G	2009	2SC374JA	2016	2SC379D	2009	2SC381RL	2010
2SC361	2009	2SC367I	2009	2SC371GN	2009	2SC374K	2016	2SC379E	2009	2SC381X	2010
2SC361A	2009	2SC367K	2009	2SC371G-O	2009	2SC374L	2016	2SC379F	2009	2SC381Y	2010
2SC361B	2009	2SC367L	2009	2SC371G-R	2009	2SC374M	2016	2SC379G	2009	2SC382	2009
2SC361C	2009	2SC367M	2009	2SC371H	2009	2SC374OR	2016	2SC379GN	2009	2SC382(BL)	2009
2SC361D	2009	2SC367O	2009	2SC371I	2009	2SC374R	2016	2SC379H	2009	2SC382(BN)	2009
2SC361E	2009	2SC367OR	2009	2SC371K	2009	2SC374V	2016	2SC379J	2009	2SC382(R)	2009
2SC361F	2009	2SC367R	2009	2SC371L	2009	2SC374X	2016	2SC379K	2009	2SC382-BK	2009
2SC361G	2009	2SC367X	2009	2SC371M	2009	2SC374Y	2016	2SC379L	2009	2SC382-BK(1)	2009
2SC361GN	2009	2SC367Y	2009	2SC371O	2009	2SC375	2010	2SC379M	2009	2SC382-BK(2)	2009
2SC361H	2009	2SC368	2016	2SC371OR	2009	2SC375-O	2010	2SC379N	2009	2SC382C	2009
2SC361J	2009	2SC368-BL	2016	2SC371R	2009	2SC375-O	2010	2SC379OR	2009	2SC382-G	2009
2SC361K	2009	2SC368-GR	2016	2SC371R-1	2009	2SC375-Y	2010	2SC379R	2009	2SC382-GR	2009
2SC361L	2009	2SC368A	2016	2SC371RED-G	2009	2SC375A	2010	2SC379X	2009	2SC382-GY	2009
2SC361M	2009	2SC368B	2016	2SC371T	2009	2SC375B	2010	2SC379Y	2009	2SC382-OR	2009
2SC361OR	2009	2SC368BL	2016	2SC371X	2009	2SC375C	2010	2SC380	2009	2SC382-R	2009
2SC361R	2009	2SC368C	2016	2SC371Y	2009	2SC375D	2010	2SC380(R)	2009	2SC382-V	2009
2SC361X	2009	2SC368D	2016	2SC372	2009	2SC375E	2010	2SC380/4454C	2009	2SC382A	2009
2SC361Y	2009	2SC368E	2016	2SC372(H)	2009	2SC375F	2010	2SC380-0/4454C	2009	2SC382B	2009
2SC362	2009	2SC368F	2016	2SC372(O)	2009	2SC375G	2010	2SC380-BRN	2009	2SC382BK	2009
2SC362A	2009	2SC368G	2016	2SC372(Y)	2009	2SC375GN	2010	2SC380-OR	2009	2SC382BK1	2009
2SC362B	2009	2SC368H	2016	2SC372-1	2009	2SC375H	2010	2SC380-O/4454C	2009	2SC382BK2	2009
2SC362C	2009	2SC368I	2016	2SC372-2	2009	2SC375J	2010	2SC380-ORG	2009	2SC382BL	2009
2SC362D	2009	2SC368J	2016	2SC372-OR	2009	2SC375K	2010	2SC380-R	2009	2SC382BN	2009
2SC362E	2009	2SC368K	2016	2SC372-ORG	2009	2SC375L	2010	2SC380-RED	2009	2SC382BR	2009
2SC362F	2009	2SC368L	2016	2SC372-ORG-G	2009	2SC375M	2010	2SC380-YEL	2009	2SC382C	2009
2SC362G	2009	2SC368M	2016	2SC372-ORG-G	2009	2SC375OR	2010	2SC380A	2009	2SC382D	2009
2SC362GN	2009	2SC368OR	2016	2SC372-R	2009	2SC375R	2010	2SC380A-0(TV)	2009	2SC382E	2009
2SC362H	2009	2SC368R	2016	2SC372-YEL-G	2009	2SC375X	2010	2SC380A-0(TV)	2009	2SC382F	2009
2SC362J	2009	2SC368S	2016	2SC372-Z	2009	2SC376	2009	2SC380A-D	2009	2SC382G	2009
2SC362K	2009	2SC368V	2016	2SC372-Z	2009	2SC376A	2009	2SC380A(O)	2009	2SC382GN	2009
2SC362L	2009	2SC368X	2016	2SC372AR	2009	2SC376B	2009	2SC380A(R)	2009	2SC382GR	2009
2SC362M	2009	2SC368Y	2016	2SC372B	2009	2SC376C	2009	2SC380A(Y)	2009	2SC382GY	2009
2SC362OR	2009	2SC369	2016	2SC372BL	2009	2SC376D	2009	2SC380A+O	2009	2SC382H	2009
2SC362R	2009	2SC369-BL	2016	2SC372BL	2009	2SC376E	2009	2SC380A-O	2009	2SC382J	2009
2SC362X	2009	2SC369-BLU-G	2016	2SC372C	2009	2SC376F	2009	2SC380A-O(TV)	2009	2SC382K	2009
2SC362Y	2009	2SC369-GR	2016	2SC372D	2009	2SC376G	2009	2SC380A-R	2009	2SC382L	2009
2SC363	2009	2SC369-GRN-G	2016	2SC372E	2009	2SC376GN	2009	2SC380A-OR	2009	2SC382M	2009
2SC363-OR	2009	2SC369-V	2016	2SC372F	2009	2SC376H	2009	2SC380AR	2009	2SC382OR	2009
2SC363A	2009	2SC369A	2016	2SC372G	2009	2SC376I	2009	2SC380A-R(TV)	2009	2SC382R	2009
2SC363B	2009	2SC369B	2016	2SC372GN	2009	2SC376K	2009	2SC380ATV	2009	2SC382V	2009
2SC363C	2009	2SC369BL	2016	2SC372G-O	2009	2SC376L	2009	2SC380AY	2009	2SC382W	2009
2SC363D	2009	2SC369C	2016	2SC372GR	2009	2SC376M	2009	2SC380B	2009	2SC382X	2009
2SC363E	2009	2SC369D	2016	2SC372G-Y	2009	2SC376OR	2009	2SC380B	2009	2SC382Y	2009
2SC363F	2009	2SC369E	2016	2SC372H	2009	2SC376R	2009	2SC380B-Y	2009	2SC383	2009
2SC363G	2009	2SC369F	2016	2SC372J	2009	2SC376X	2009	2SC380BY	2009	2SC383(T)	2009
2SC363GN	2009	2SC369G	2016	2SC372K	2009	2SC376Y	2009	2SC380C	2009	2SC383-OR	2009
2SC363H	2009	2SC369G/BL	2016	2SC372L	2009	2SC377	2009	2SC380CY	2009	2SC383A	2009
2SC363J	2009	2SC369G/GR	2016	2SC372M	2009	2SC377-0	2009	2SC380D	2009	2SC383B	2009
2SC363K	2009	2SC369G-BL	2016	2SC372N	2009	2SC377-BN	2009	2SC380D	2009	2SC383C	2009
2SC363L	2009	2SC369GBL	2016	2SC372O	2009	2SC377-BRN	2009	2SC380D-Y	2009	2SC383D	2009
2SC363M	2009	2SC369GR	2016	2SC372OR	2009	2SC377-O	2009	2SC380DY	2009	2SC383E	2009
2SC363OR	2009	2SC369GGR	2016	2SC372R	2009	2SC377-OR	2009	2SC380E	2009	2SC383F	2009
2SC363R	2009	2SC369GN	2016	2SC372X	2009	2SC377-ORG	2009	2SC380E-Y	2009	2SC383G	2009
2SC363X	2009	2SC369GR	2016	2SC372Y	2009	2SC377-R	2009	2SC380EY	2009	2SC383GN	2009
2SC363Y	2009	2SC369V	2016	2SC372Y1	2009	2SC377-RED	2009	2SC380F	2009	2SC383H	2009
2SC364	2009	2SC369H	2016	2SC372YEL	2009	2SC377A	2009	2SC380F-Y	2009	2SC383J	2009
2SC364	2009	2SC369J	2016	2SC372YEL-G	2009	2SC377B	2009	2SC380FY	2009	2SC383K	2009
2SC364-0	2009	2SC369K	2016	2SC372Z	2009	2SC377BN	2009	2SC380G	2009	2SC383L	2009
2SC364-O	2009	2SC369L	2016	2SC373	2009	2SC377BRN	2009	2SC380GN	2009	2SC383M	2009
2SC364-ORG-G	2009	2SC369M	2016	2SC373(GR)	2009	2SC377C	2009	2SC380OR	2009	2SC383N	2009
2SC364-R	2009	2SC369OR	2016	2SC373-0	2009	2SC377D	2009	2SC380R	2009	2SC383O	2009
2SC364-RED-G	2009	2SC369R	2016	2SC373-14	2009	2SC377E	2009	2SC380S	2009	2SC383P	2009
2SC364-Y	2009	2SC369V	2016	2SC373-G	2009	2SC377F	2009	2SC380T	2009	2SC383Q	2009
2SC364A	2009	2SC369X	2016	2SC373-O	2009	2SC377G	2009	2SC380U	2009	2SC383R	2009
2SC364B	2009	2SC369Y	2016	2SC373-OR	2009	2SC377GN	2009				

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25C389F	2016	25C400F	2009	25C405X	2009	25C455	2009	25C459R	2009	25C477OR	2016
25C389G	2016	25C400G	2009	25C405Y	2009	25C455-OR	2009	25C459X	2009	25C477R	2016
25C389GN	2016	25C400GN	2009	25C406	2009	25C455A	2009	25C459Y	2009	25C477X	2016
25C389H	2016	25C400H	2009	25C406A	2009	25C455B	2009	25C460	2009	25C477Y	2016
25C389J	2016	25C400J	2009	25C406B	2009	25C455C	2009	25C460(A)	2009	25C478	2009
25C389K	2016	25C400K	2009	25C406C	2009	25C455D	2009	25C460(B)	2009	25C478(D)	2009
25C389L	2016	25C400L	2009	25C406D	2009	25C455E	2009	25C460-5	2009	25C478-4	2009
25C389LP	2016	25C400M	2009	25C406E	2009	25C455F	2009	25C460-B	2009	25C478-O	2009
25C389M	2016	25C400OR	2009	25C406F	2009	25C455G	2009	25C460-C	2009	25C478A	2009
25C389O	2016	25C400R	2009	25C406G	2009	25C455GN	2009	25C460-OR	2009	25C478B	2009
25C389OR	2016	25C400X	2009	25C406GN	2009	25C455H	2009	25C460A	2009	25C478C	2009
25C389P	2016	25C400Y	2009	25C406H	2009	25C455J	2009	25C460A2302-17	2009	25C478D	2009
25C389R	2016	25C401	2009	25C406I	2009	25C455K	2009	25C460AB	2009	25C478E	2009
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25C389Y	2016	25C401AL	2009	25C406L	2009	25C455M	2009	25C460BL	2009	25C478G	2009
25C393	2009	25C401B	2009	25C406M	2009	25C455OR	2009	25C460C	2009	25C478GN	2009
25C394	2009	25C401C	2009	25C406OR	2009	25C455R	2009	25C460D	2009	25C478H	2009
25C394(0)	2009	25C401D	2009	25C406R	2009	25C455X	2009	25C460E	2009	25C478J	2009
25C394(O)	2009	25C401E	2009	25C406X	2009	25C455Y	2009	25C460F	2009	25C478K	2009
25C394-0	2009	25C401F	2009	25C406Y	2009	25C457	2009	25C460G	2009	25C478L	2009
25C394-GR	2009	25C401G	2009	25C423	2009	25C458	2009	25C460GB	2009	25C478M	2009
25C394-GRN	2009	25C401GN	2009	25C423-O	2009	25C458(C)	2009	25C460GN	2009	25C478OR	2009
25C394-O	2009	25C401H	2009	25C423A	2009	25C458(C,D)	2009	25C460H	2009	25C478R	2009
25C394-OR	2009	25C401J	2009	25C423B	2009	25C458(D)	2009	25C460J	2009	25C478X	2009
25C394-ORG	2009	25C401K	2009	25C423C	2009	25C458(LG)	2009	25C460K	2009	25C478Y	2009
25C394-R	2009	25C401L	2009	25C423D	2009	25C458-4	2009	25C460L	2009	25C479	2030
25C394-RED	2009	25C401M	2009	25C423E	2009	25C458-5	2009	25C460M	2009	25C479A	2030
25C394-Y	2009	25C401OR	2009	25C423F	2009	25C458-D	2009	25C460OR	2009	25C479B	2030
25C394-YEL	2009	25C401R	2009	25C423G	2009	25C458-O	2009	25C460R	2009	25C479C	2030
25C394A	2009	25C401X	2009	25C423GN	2009	25C458-OR	2009	25C460X	2009	25C479D	2030
25C394AP	2009	25C401Y	2009	25C423H	2009	25C458A	2009	25C460Y	2009	25C479E	2030
25C394B	2009	25C402	2009	25C423J	2009	25C458AD	2009	25C461	2009	25C479F	2030
25C394C	2009	25C402A	2009	25C423K	2009	25C458AK	2009	25C461(BF)	2009	25C479G	2030
25C394D	2009	25C402B	2009	25C423L	2009	25C458B	2009	25C461-BF	2009	25C479GN	2030
25C394E	2009	25C402C	2009	25C423M	2009	25C458BC	2009	25C461-A	2009	25C479H	2030
25C394F	2009	25C402D	2009	25C423OR	2009	25C458B-D	2009	25C461-B	2009	25C479J	2030
25C394G	2009	25C402E	2009	25C423R	2009	25C458BD	2009	25C461A	2009	25C479K	2030
25C394GN	2009	25C402F	2009	25C423X	2009	25C458BK	2009	25C461AL	2009	25C479L	2030
25C394GR	2009	25C402G	2009	25C423Y	2009	25C458BL	2009	25C461B	2009	25C479M	2030
25C394GRN	2009	25C402GN	2009	25C424	2009	25C458BLG	2009	25C461BF	2009	25C479OR	2030
25C394H	2009	25C402H	2009	25C424D	2009	25C458BM	2009	25C461BK	2009	25C479R	2030
25C394J	2009	25C402J	2009	25C425	2009	25C458BX	2009	25C461BL	2009	25C479S	2030
25C394K	2009	25C402K	2009	25C425A	2009	25C458C	2009	25C461C	2009	25C479Y	2030
25C394L	2009	25C402L	2009	25C425B	2009	25C458C/L6	2009	25C461E	2009	25C492	2041
25C394LA	2009	25C402M	2009	25C425C	2009	25C458CL	2009	25C461EP	2009	25C493-BL	2041
25C394O	2009	25C402OR	2009	25C425D	2009	25C458CLG	2009	25C461F	2009	25C493-R	2041
25C394OR	2009	25C402R	2009	25C425E	2009	25C458CM	2009	25C461L	2009	25C493-Y	2041
25C394R	2009	25C402X	2009	25C425F	2009	25C458D	2009	25C494	2041	25C499Y	2059
25C394RED	2009	25C402Y	2009	25C425G	2009	25C458E	2009	25C463	2016	25C494-R	2041
25C394W	2009	25C403	2009	25C425GN	2009	25C458F	2009	25C463A	2016	25C494-Y	2041
25C394X	2009	25C403(C)	2009	25C425H	2009	25C458G	2009	25C463B	2016	25C494A	2041
25C394Y	2009	25C403(SONY)	2009	25C425K	2009	25C458GLB	2009	25C463C	2016	25C494B	2041
25C394YEL	2009	25C403-OR	2009	25C425L	2009	25C458GN	2009	25C463D	2016	25C494BL	2041
25C395	2009	25C403A	2009	25C425M	2009	25C458H	2009	25C463E	2016	25C494C	2041
25C395A	2009	25C403AL	2009	25C425OR	2009	25C458J	2009	25C463F	2016	25C494D	2041
25C395A-O	2009	25C403B	2009	25C425R	2009	25C458K	2009	25C463G	2016	25C494E	2041
25C395A-ORG	2009	25C403C	2009	25C425X	2009	25C458KA	2009	25C463GN	2016	25C494F	2041
25C395A-R	2009	25C403CG	2009	25C425Y	2009	25C458KB	2009	25C463J	2016	25C494G	2041
25C395A-RED	2009	25C403D	2009	25C426	2009	25C458KC	2009	25C463K	2016	25C494GN	2041
25C395A-Y	2009	25C403E	2009	25C427	2009	25C458KD	2009	25C463L	2016	25C494H	2041
25C395A-YEL	2009	25C403F	2009	25C428	2009	25C458L	2009	25C463M	2016	25C494J	2041
25C395B	2009	25C403G	2009	25C429	2009	25C458L(C)	2009	25C463OR	2016	25C494K	2041
25C395C	2009	25C403GN	2009	25C43	2030	25C458LA	2009	25C463R	2016	25C494L	2041
25C395D	2009	25C403H	2009	25C43A	2030	25C458LB	2009	25C463X	2016	25C494M	2041
25C395E	2009	25C403I	2009	25C43B	2030	25C458LC	2009	25C463Y	2016	25C494OR	2041
25C395F	2009	25C403K	2009	25C43C	2030	25C458LD	2009	25C467	2010	25C494R	2041
25C395GN	2009	25C403L	2009	25C43D	2030	25C458LG	2009	25C468	2009	25C494X	2041
25C395GN	2009	25C403M	2009	25C43E	2030	25C458LG(B)	2009	25C468(LGR)	2009	25C494Y	2041
25C395H	2009	25C403OR	2009	25C43F	2030	25C458LG(C)	2009	25C468A	2009	25C497	2030
25C395J	2009	25C403R	2009	25C43G	2030	25C458LG(D)	2009	25C468B	2009	25C497-0	2030
25C395K	2009	25C403X	2009	25C43GN	2030	25C458LG(A)	2009	25C468H	2009	25C497-O	2030
25C395L	2009	25C403Y	2009	25C43H	2030	25C458LG(B)	2009	25C468LGR	2009	25C497-OR	2030
25C395M	2009	25C404	2009	25C43J	2030	25C458LG(BM)	2009	25C472	2058	25C497-ORG	2030
25C395OR	2009	25C404A	2009	25C43K	2030	25C458LGC	2009	25C472A	2058	25C497-R	2030
25C395R	2009	25C404B	2009	25C43L	2030	25C458LGC-6	2009	25C472B	2058	25C497-RED	2030
25C395X	2009	25C404C	2009	25C43M	2030	25C458LGD	2009	25C472C	2058	25C497-Y	2030
25C395Y	2009	25C404D	2009	25C43OR	2030	25C458LGO	2009	25C472D	2058	25C497A	2030
25C397	2016	25C404E	2009	25C43R	2030	25C458LGR	2009	25C472E	2058	25C497B	2030
25C397A	2016	25C404F	2009	25C43X	2030	25C458LGS	2009	25C472F	2058	25C497C	2030
25C397B	2016	25C404G	2009	25C43Y	2030	25C458M	2009	25C472G	2058	25C497D	2030
25C397C	2016	25C404GN	2009	25C43A	2009	25C458OLG	2009	25C472GN	2058	25C497E	2030
25C397D	2016	25C404H	2009	25C43A(A)	2009	25C458OR	2009	25C472H	2058	25C497F	2030
25C397E	2016	25C404J	2009	25C43A(B)	2009	25C458P	2009	25C472J	2058	25C497G	2030
25C397F	2016	25C404K	2009	25C43A-3	2009	25C458PGC	2009	25C472K	2058	25C497GN	2030
25C397G	2016	25C404L	2009	25C43A-5	2009	25C458R	2009	25C472L	2058	25C497H	2030
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25C397H	2016	25C404OR	2009	25C43A4A	2009	25C458RTOK	2009	25C472OR	2058	25C497K	2030
25C397J	2016	25C404R	2009	25C43A4B	2009	25C458V	2009	25C472R	2058	25C497L	2030
25C397K	2016	25C404X	2009	25C43A4B-6	2009	25C458VVC	2009	25C472X	2058	25C497M	2030
25C397L	2016	25C404Y	2009	25C43A4BL	2009	25C458X	2009	25C472Y	2058	25C497OR	2030
25C397M	2016	25C405	2009	25C43A4C	2009	25C458Y	2009	25C473	2007	25C497R	2030
25C397OR	2016	25C405A	2009	25C43A4D	2009	25C459	2009	25C474	2009	25C497RED	2030
25C397R	2016	25C405B	2009	25C43A4E	2009	25C459A	2009	25C477	2016	25C497X	2030

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2SC504H	2030	2SC536ET	2009	2SC538T	2009	2SC562G	2016	2SC587X	2009	2SC613A	2010
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2SC504K	2030	2SC536F	2009	2SC539(L)(K)	2009	2SC562H	2016	2SC588	2009	2SC613C	2010
2SC504L	2030	2SC536F1	2009	2SC539(R)	2009	2SC562J	2016	2SC588A	2009	2SC613D	2010
2SC504M	2030	2SC536F2	2009	2SC539K	2009	2SC562K	2016	2SC588B	2009	2SC613E	2010
2SC504OR	2030	2SC536FC	2009	2SC539L	2009	2SC562L	2016	2SC588C	2009	2SC613F	2010
2SC504R	2030	2SC536FP	2009	2SC539R	2009	2SC562M	2016	2SC588D	2009	2SC613G	2010
2SC504X	2030	2SC536FPD	2059	2SC539S	2009	2SC562OR	2016	2SC588E	2009	2SC613GN	2010
2SC509	2059	2SC536FPE	2059	2SC539T	2009	2SC562R	2016	2SC588F	2009	2SC613H	2010
2SC509(O)	2059	2SC536FPF	2059	2SC543	2020	2SC562X	2016	2SC588G	2009	2SC613J	2010
2SC509(O)	2059	2SC536FS	2009	2SC543A	2020	2SC562Y	2016	2SC588GN	2009	2SC613K	2010
2SC509(Y)	2059	2SC536FS6	2009	2SC543B	2020	2SC563	2016	2SC588H	2009	2SC613L	2010
2SC509-O	2059	2SC536FZ	2009	2SC543C	2020	2SC563(3RDIF)	2016	2SC588J	2009	2SC613M	2010
2SC509-Y	2059	2SC536G	2009	2SC543D	2020	2SC563-F	2016	2SC588K	2009	2SC613OR	2010
2SC509G	2059	2SC536G-1	2009	2SC543E	2020	2SC563-G	2016	2SC588L	2009	2SC613R	2010
2SC509G-O	2059	2SC536G1	2009	2SC543F	2020	2SC563-OR	2016	2SC588M	2009	2SC613X	2010
2SC509G-Y	2059	2SC536G2	2009	2SC543G	2020	2SC563A	2016	2SC588OR	2009	2SC613Y	2010
2SC509Q	2059	2SC536GG	2009	2SC543GN	2020	2SC563A(3RDIF)	2016	2SC588R	2009	2SC618	2016
2SC509Y	2059	2SC536GJ	2009	2SC543H	2020	2SC563B	2016	2SC588X	2009	2SC618A	2016
2SC516	2030	2SC536GK	2009	2SC543J	2020	2SC563C	2016	2SC588Y	2009	2SC619	2009
2SC516A	2030	2SC536GL	2009	2SC543K	2020	2SC563D	2016	2SC590Y	2059	2SC619(B)	2009
2SC516B	2030	2SC536GM	2009	2SC543L	2020	2SC563E	2016	2SC593	2009	2SC619A	2009
2SC516C	2030	2SC536GN	2009	2SC543M	2020	2SC563F	2016	2SC594	2009	2SC619B	2009
2SC516D	2030	2SC536GP	2009	2SC543OR	2020	2SC563G	2016	2SC594-O	2009	2SC619C	2009
2SC516E	2030	2SC536GT	2009	2SC543R	2020	2SC563GN	2016	2SC594-R	2009	2SC619D	2009
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2SC516G	2030	2SC536GY	2009	2SC543Y	2020	2SC563J	2016	2SC594A	2009	2SC619F	2009
2SC516GN	2030	2SC536GZ	2009	2SC544	2010	2SC563K	2016	2SC594B	2009	2SC619G	2009
2SC516H	2030	2SC536H	2009	2SC544A	2010	2SC563L	2016	2SC594C	2009	2SC619GN	2009
2SC516J	2030	2SC536J	2059	2SC544AG	2010	2SC563M	2016	2SC594D	2009	2SC619H	2009
2SC516K	2030	2SC536K	2009	2SC544B	2010	2SC563OR	2016	2SC594E	2009	2SC619J	2009
2SC516L	2030	2SC536KNPD	2059	2SC544C	2010	2SC563R	2016	2SC594F	2009	2SC619K	2009
2SC516M	2030	2SC536KNPE	2059	2SC544D	2010	2SC563S	2016	2SC594G	2009	2SC619L	2009
2SC516OR	2030	2SC536KNPF	2059	2SC544E(VHF)	2010	2SC563T	2016	2SC594GN	2009	2SC619M	2009
2SC516R	2030	2SC536L	2009	2SC544E	2010	2SC564	2009	2SC594H	2009	2SC619OR	2009
2SC516X	2030	2SC536M	2009	2SC544F	2010	2SC564(Q)	2030	2SC594J	2009	2SC619R	2009
2SC516Y	2030	2SC536NP	2009	2SC544G	2010	2SC564(Q)(R)	2030	2SC594K	2009	2SC619S	2009
2SC527	2016	2SC536NPD	2059	2SC544GN	2010	2SC564A	2009	2SC594L	2009	2SC619Y	2009
2SC528	2016	2SC536NPE	2059	2SC544H	2010	2SC564B	2009	2SC594M	2009	2SC620	2009
2SC529	2009	2SC536NPF	2059	2SC544J	2010	2SC564C	2009	2SC594OR	2009	2SC620(D)	2009
2SC529A	2009	2SC536OR	2009	2SC544K	2010	2SC564D	2009	2SC594R	2009	2SC620-OR	2009
2SC529B	2009	2SC536Q	2059	2SC544L	2010	2SC564E	2009	2SC594X	2009	2SC620A	2009
2SC529C	2009	2SC536R	2009	2SC544M	2010	2SC564F	2009	2SC594Y	2009	2SC620B	2009
2SC529D	2009	2SC536SPD	2059	2SC544OR	2010	2SC564G	2009	2SC595	2009	2SC620C	2009
2SC529E	2009	2SC536SPE	2059	2SC544R	2010	2SC564GN	2009	2SC595A	2009	2SC620CD	2009
2SC529F	2009	2SC536SPF	2059	2SC544X	2010	2SC564H	2009	2SC595B	2009	2SC620D	2009
2SC529G	2009	2SC536W	2009	2SC544Y	2010	2SC564J	2009	2SC595C	2009	2SC620DE	2009
2SC529GN	2009	2SC536X	2009	2SC545	2010	2SC564K	2030	2SC595D	2009	2SC620E	2009
2SC529H	2009	2SC536XL	2009	2SC545A	2010	2SC564L	2009	2SC595E	2009	2SC620F	2009
2SC529J	2009	2SC537	2009	2SC545B	2010	2SC564M	2009	2SC595F	2009	2SC620G	2009
2SC529K	2009	2SC537	2059	2SC545C	2010	2SC564OR	2009	2SC595G	2009	2SC620GN	2009
2SC529L	2009	2SC537(F)	2059	2SC545D	2010	2SC564P	2009	2SC595GN	2009	2SC620H	2009
2SC529M	2009	2SC537(G)	2059	2SC545E	2010	2SC564PL	2009	2SC595H	2009	2SC620J	2009
2SC529OR	2009	2SC537-01	2059	2SC546	2016	2SC564Q	2009	2SC595J	2009	2SC620K	2009
2SC529R	2009	2SC537-C7	2059	2SC546K	2016	2SC564QC	2009	2SC595K	2009	2SC620L	2009
2SC529X	2009	2SC537-ALC	2059	2SC551	2020	2SC564R	2009	2SC595L	2009	2SC620M	2009
2SC529Y	2009	2SC537-EV	2059	2SC552	2020	2SC564S	2009	2SC595M	2009	2SC620OR	2009
2SC530	2009	2SC537B	2059	2SC553	2020	2SC564T	2009	2SC595OR	2009	2SC620R	2009
2SC531	2009	2SC537BK	2059	2SC554	2020	2SC564X	2009	2SC595R	2009	2SC620X	2009
2SC532	2009	2SC537C	2059	2SC555	2058	2SC564Y	2009	2SC595X	2009	2SC620Y	2009
2SC533	2009	2SC537C7	2059	2SC560	2030	2SC565	2009	2SC595Y	2009	2SC621	2009
2SC534	2009	2SC537D	2059	2SC560A	2030	2SC565A	2009	2SC596	2009	2SC621A	2009
2SC535	2010	2SC537D1	2059	2SC560B	2030	2SC570	2009	2SC596A	2009	2SC621B	2009
2SC535(B)	2010	2SC537D2	2059	2SC560C	2030	2SC575	2030	2SC596B	2009	2SC621C	2009
2SC535-OR	2010	2SC537E	2059	2SC560D	2030	2SC576	2009	2SC596C	2009	2SC621D	2009
2SC535A	2010	2SC537EF	2059	2SC560E	2030	2SC577	2009	2SC596D	2009	2SC621E	2009
2SC535ABC	2010	2SC537EH	2059	2SC560F	2030	2SC578	2061	2SC596E	2009	2SC621F	2009
2SC535AL	2010	2SC537EJ	2059	2SC560G	2030	2SC579	2060	2SC596F	2009	2SC621G	2009
2SC535B	2010	2SC537EK	2059	2SC560GN	2030	2SC580	2030	2SC596G	2009	2SC621GN	2009
2SC535C	2010	2SC537EV	2059	2SC560H	2030	2SC580A	2030	2SC596GN	2009	2SC621H	2009
2SC535D	2010	2SC537F	2059	2SC560J	2030	2SC580B	2030	2SC596H	2009	2SC621I	2009
2SC535E	2010	2SC537F1	2059	2SC560K	2030	2SC580C	2030	2SC596J	2009	2SC621K	2009
2SC535F	2010	2SC537F2	2059	2SC560L	2030	2SC580D	2030	2SC596K	2009	2SC621L	2009
2SC535G	2010	2SC537FC	2059	2SC560M	2030	2SC580E	2030	2SC596L	2009	2SC621M	2009
2SC535GN	2010	2SC537F-C7	2059	2SC560OR	2030	2SC580F	2030	2SC596M	2009	2SC621OR	2009
2SC535H	2010	2SC537FC7	2059	2SC560R	2030	2SC580G	2030	2SC596OR	2009	2SC621R	2009
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2SC535K	2010	2SC537FJ	2059	2SC560Y	2030	2SC580H	2030	2SC596X	2009	2SC621Y	2009
2SC535L	2010	2SC537FK	2059	2SC561	2010	2SC580J	2030	2SC596Y	2009	2SC622	2009
2SC535M	2010	2SC537FV	2059	2SC561-OR	2010	2SC580K	2030	2SC599	2020	2SC622A	2009
2SC535OR	2010	2SC537G	2059	2SC561A	2010	2SC580L	2030	2SC600	2020	2SC622B	2009
2SC535R	2010	2SC537G1	2059	2SC561B	2010	2SC580M	2030	2SC601N	2016	2SC622C	2009
2SC535X	2010	2SC537G2	2059	2SC561C	2010	2SC580OR	2030	2SC602	2016	2SC622D	2009
2SC535Y	2010	2SC537GF	2059	2SC561D	2010	2SC580R	2030	2SC603	2060	2SC622E	2009
2SC536	2009	2SC537GFL	2059	2SC561E	2010	2SC580T	2030	2SC604	2010	2SC622F	2009
2SC536(C)	2009	2SC537GI	2059	2SC561F	2010	2SC580X	2030	2SC607	2030	2SC622G	2009
2SC536-D	2009	2SC537H	2059	2SC561G	2010	2SC580Y	2030	2SC610	2030	2SC622GN	2009
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2SC536-F	2009	2SC537W	2059	2SC561H	2010	2SC585	2020	2SC610B	2030	2SC622J	2009
2SC536-G	2009	2SC537WF	2059	2SC561J	2010	2SC586	2041	2SC610C	2030	2SC622K	2009
2SC536-OR	2009	2SC538	2009	2SC561K	2010	2SC587	2009	2SC610D	2030	2SC622L	2009
2SC536A	2009	2SC538(P)	2009	2SC561L	2010	2SC587A	2009	2SC610E	2030	2SC622M	2009
2SC536A(3RD-IF)	2059	2SC538(R)	2009	2SC561M	2010	2SC587B	2009	2SC610F	2030	2SC622OR	2009
2SC536AF	2009	2SC538-Q	2009	2SC561OR	2010	2SC587C	2009	2SC610G	2030	2SC622R	2009
2SC536AG	2009	2SC538A	2009	2SC561R	2010	2SC587D	2009	2SC610GN	2030	2SC622S	2009
2SC536B	2009	2SC538A(Q)	2009	2SC561X	2010	2SC587E	2009	2SC610H	2030	2SC622Y	2009
2SC536C	2009	2SC538A-P	2009	2SC561Y	2010	2SC587F	2009	2SC610I	2030	2SC623	2009
2SC536D	2009	2SC538AQ	2009	2SC562	2016	2SC587G	2009				

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25C641G	2009	25C649M	2009	25C662G	2010	25C682(B)	2016	25C689GN	2009	25C705L	2010
25C641GN	2009	25C649OR	2009	25C662GN	2010	25C682-OR	2016	25C689H	2009	25C705M	2010
25C641H	2009	25C649R	2009	25C662H	2010	25C682A	2016	25C689J	2009	25C705OR	2010
25C641J	2009	25C649X	2009	25C662J	2010	25C682B	2016	25C689K	2009	25C705S	2010
25C641K	2009	25C649Y	2009	25C662K	2010	25C682C	2016	25C689L	2009	25C705TV	2010
25C641KB	2009	25C650	2009	25C662L	2010	25C682D	2016	25C689M	2009	25C705TV(3RD-IF)	2009
25C641KC	2009	25C650-OR	2009	25C662M	2010	25C682E	2016	25C689OR	2009	25C705TVV	2010
25C641L	2009	25C650-Y	2009	25C662OR	2010	25C682F	2016	25C689R	2009	25C705TVW	2010
25C641M	2009	25C650A	2009	25C662R	2010	25C682G	2016	25C689X	2009	25C705TVW	2010
25C641OR	2009	25C650B	2009	25C662X	2010	25C682GN	2016	25C689Y	2009	25C705Y	2010
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25C642	2055	25C650F	2009	25C663C	2016	25C682L	2016	25C693B	2016	25C708(B)	2016
25C642A	2055	25C650G	2009	25C663D	2016	25C682M	2016	25C693C	2016	25C708(C)	2016
25C644	2016	25C650GN	2009	25C663E	2016	25C682OR	2016	25C693D	2016	25C708-OR	2016
25C644(F)	2016	25C650H	2009	25C663F	2016	25C682R	2016	25C693E	2016	25C708A	2016
25C644(H)	2016	25C650J	2009	25C663G	2016	25C682X	2016	25C693EB	2016	25C708AA	2016
25C644(R)	2016	25C650K	2009	25C663GN	2016	25C682Y	2016	25C693ET	2016	25C708AB	2016
25C644(R,S)	2016	25C650L	2009	25C663H	2016	25C683	2016	25C693F	2016	25C708AC	2016
25C644(S)	2016	25C650M	2009	25C663J	2016	25C683(B)	2016	25C693FC	2016	25C708AH	2016
25C644-OR	2016	25C650OR	2009	25C663K	2016	25C683-OR	2016	25C693FL	2016	25C708AHA	2016
25C644A	2016	25C650R	2016	25C663L	2016	25C683A	2016	25C693FP	2016	25C708AHB	2016
25C644B	2016	25C650X	2009	25C663M	2016	25C683B	2016	25C693FU	2016	25C708AHC	2016
25C644C	2016	25C650Y	2009	25C663OR	2016	25C683C	2016	25C693G	2016	25C708B	2016
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25C644E	2016	25C655A	2009	25C663X	2016	25C683E	2016	25C693GN	2016	25C708D	2016
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25C644FS	2016	25C655G	2009	25C664A	2041	25C683K	2016	25C693K	2016	25C708HA	2016
25C644G	2016	25C655GN	2009	25C664B	2041	25C683L	2016	25C693L	2016	25C708HB	2016
25C644GN	2016	25C655H	2009	25C664C	2041	25C683M	2016	25C693M	2016	25C708L	2016
25C644H	2016	25C655J	2009	25C664D	2041	25C683OR	2016	25C693NP	2016	25C708M	2016
25C644H(S)	2016	25C655K	2009	25C664E	2041	25C683P	2016	25C693OR	2016	25C708OR	2016
25C644HR	2016	25C655L	2009	25C664F	2041	25C683Q	2016	25C693R	2016	25C708R	2016
25C644HS	2016	25C655M	2009	25C664G	2041	25C683R	2016	25C693U	2016	25C708X	2016
25C644J	2016	25C655OR	2009	25C664OR	2041	25C683S	2016	25C693X	2016	25C708Y	2016
25C644K	2016	25C655R	2009	25C664R	2041	25C683Y	2016	25C693Y	2016	25C709	2016
25C644L	2016	25C655X	2009	25C664Y	2041	25C683X	2016	25C694	2016	25C709(B)(C)	2016
25C644M	2016	25C655Y	2009	25C667	2016	25C683Y	2016	25C694A	2016	25C709(C)	2016
25C644OR	2016	25C657	2010	25C668	2010	25C684	2010	25C694B	2016	25C709A	2016
25C644P	2016	25C657A	2010	25C668(C)	2010	25C684-OR	2010	25C694C	2016	25C709B	2016
25C644PJ	2016	25C657B	2010	25C668(D)	2010	25C684A	2010	25C694D	2016	25C709C	2016
25C644Q	2016	25C657C	2010	25C668-0	2010	25C684B	2010	25C694E	2016	25C709D	2016
25C644R	2016	25C657D	2010	25C668-OR	2010	25C684BK	2010	25C694F	2016	25C709E	2016
25C644RST	2016	25C657E	2010	25C668A	2010	25C684C	2010	25C694G	2016	25C709F	2016
25C644S	2016	25C657F	2010	25C668B	2010	25C684D	2010	25C694GN	2016	25C709G	2016
25C644T	2016	25C657G	2010	25C668B1	2010	25C684E	2010	25C694H	2016	25C709H	2016
25C644X	2016	25C657GN	2010	25C668BC2	2010	25C684F	2010	25C694J	2016	25C709GN	2016
25C644Y	2016	25C657H	2010	25C668C	2010	25C684G	2010	25C694K	2016	25C709I	2016
25C645	2016	25C657J	2010	25C668C1	2010	25C684GN	2010	25C694L	2016	25C709J	2016
25C645-OR	2010	25C657K	2010	25C668C2	2010	25C684H	2010	25C694M	2016	25C709L	2016
25C645A	2010	25C657L	2010	25C668CD	2010	25C684J	2010	25C694OR	2016	25C709M	2016
25C645B	2010	25C657M	2010	25C668D0	2010	25C684K	2010	25C694R	2016	25C709OR	2016
25C645B-1	2010	25C657OR	2010	25C668D	2010	25C684L	2010	25C694X	2016	25C709Y	2016
25C645C	2010	25C657R	2010	25C668D1	2010	25C684M	2010	25C694Y	2016	25C709Y	2016
25C645D	2010	25C657X	2010	25C668DE	2010	25C684OR	2010	25C694Z	2016	25C710	2016
25C645E	2010	25C657Y	2010	25C668DO	2010	25C684R	2010	25C696	2030	25C710-0	2030
25C645F	2010	25C658	2010	25C668DV	2010	25C684X	2010	25C696(D)	2030	25C710-1	2030
25C645G	2010	25C658A	2010	25C668DX	2010	25C684Y	2010	25C696-4	2030	25C710-2	2030
25C645GN	2010	25C658B	2010	25C668DZ	2010	25C687	2041	25C696-OR	2030	25C710-4	2030
25C645GR	2010	25C658C	2010	25C668E	2010	25C687A	2041	25C696A	2030	25C710-OR	2030
25C645H	2010	25C658D	2010	25C668E1	2010	25C687B	2041	25C696AA	2030	25C710AL	2030
25C645J	2010	25C658E	2010	25C668E2	2010	25C687C	2041	25C696AB	2030	25C710B	2030
25C645K	2010	25C658F	2010	25C668EP	2010	25C687D	2041	25C696AD	2030	25C710B2	2030
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25C648	2009	25C658R	2010	25C668M	2010	25C687M	2041	25C696D	2030	25C710H	2030
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25C648E	2009	25C659B	2010	25C673	2016	25C688	2058	25C696GU	2030	25C710P(BCE)	2030
25C648F	2009	25C659C	2010	25C673(B)	2016	25C688A	2058	25C696H	2030	25C710R	2030
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25C648M	2009	25C659H	2010	25C674(F)	2010	25C688G	2058	25C696OR	2030	25C711-A,F,G	2030
25C648OR	2009	25C659J	2010	25C674(G)	2010	25C688GN	2058	25C696R	2030	25C711A	2030
25C648R	2009	25C659K	2010	25C674(H)	2010	25C688H	2058	25C696U	2030	25C711A(E)	2030
25C648X	2009	25C659L	2010	25C674-I	2010	25C688I	2058	25C696V	2030	25C711AF	2030
25C648Y	2009	25C659M	2010	25C674-J	2010	25C688J	2058	25C696X	2030	25C711AG	2030
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25C716K	2059	25C732S	2016	25C735G	2059	25C752G-R	2009	25C772CK	2058	25C784C	2058
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25C716M	2059	25C732V10	2016	25C735GR	2059	25C752H	2009	25C772CS	2058	25C784E	2058
25C716OR	2059	25C732VIO	2016	25C735GRN	2059	25C752J	2009	25C772CU	2058	25C784F	2058
25C716R	2059	25C732X	2016	25C735H	2059	25C752K	2009	25C772CV	2058	25C784G	2058
25C716X	2059	25C732Y	2016	25C735J	2059	25C752L	2009	25C772CX	2058	25C784GN	2058
25C716Y	2059	25C733	2016	25C735K	2059	25C752M	2009	25C772D	2058	25C784H	2058
25C717	2010	25C733(GR)	2016	25C735L	2059	25C752OR	2009	25C772DJ	2058	25C784J	2058
25C717B	2010	25C733-0	2016	25C735M	2059	25C752R	2009	25C772DU	2058	25C784K	2058
25C717BK	2010	25C733-B	2016	25C735O	2059	25C752X	2009	25C772DV	2058	25C784L	2058
25C717BLK	2010	25C733-BLU	2016	25C735OR	2059	25C752Y	2009	25C772DX	2058	25C784M	2058
25C717C	2010	25C733-GRN	2016	25C735ORN	2059	25C754	2009	25C772DY	2058	25C784O	2058
25C717E	2010	25C733-GRN	2016	25C735R	2059	25C755	2009	25C772E	2058	25C784OR	2058
25C717F	2010	25C733-0	2016	25C735RED	2059	25C755OR	2009	25C772F	2058	25C784Q	2058
25C717G	2010	25C733-OR	2016	25C735X	2059	25C760	2041	25C772G	2058	25C784R	2058
25C717GN	2010	25C733-ORG	2016	25C735Y	2059	25C761	2016	25C772GN	2058	25C784R/4454C	2058
25C717H	2010	25C733-Y	2016	25C735Y/4454C	2059	25C761(Y)	2016	25C772H	2058	25C784S	2058
25C717K	2010	25C733-YEL	2016	25C735YEL	2059	25C761A	2016	25C772J	2058	25C784RED	2058
25C717L	2010	25C733A	2016	25C737	2009	25C761B	2016	25C772K	2058	25C784X	2058
25C717M	2010	25C733B	2016	25C737Y	2009	25C761C	2016	25C772KB	2058	25C784Y	2058
25C717X	2010	25C733BL	2016	25C738	2010	25C761D	2016	25C772KC	2058	25C785	2058
25C718	2009	25C733BLK	2016	25C738A	2010	25C761E	2016	25C772KD	2058	25C785(E)(D)	2058
25C719	2009	25C733BLU	2016	25C738B	2010	25C761F	2016	25C772KD1	2058	25C785(O)	2058
25C719Q	2009	25C733C	2016	25C738C	2010	25C761G	2016	25C772KD2	2058	25C785-0	2058
25C720	2016	25C733D	2016	25C738D	2010	25C761GN	2016	25C772L	2058	25C785-B	2058
25C721	2009	25C733E	2016	25C738E	2010	25C761H	2016	25C772M	2058	25C785-BN	2058
25C722	2010	25C733ER	2016	25C738F	2010	25C761I	2016	25C772OR	2058	25C785-BRN	2058
25C723	2010	25C733F	2016	25C738G	2010	25C761J	2016	25C772R	2058	25C785-O	2058
25C723BL	2010	25C733G	2016	25C738GN	2010	25C761K	2016	25C772RB-D	2058	25C785-ORG	2058
25C724	2009	25C733GN	2016	25C738H	2010	25C761M	2016	25C772RD	2058	25C785-R	2058
25C724B	2009	25C733GR	2016	25C738J	2010	25C761OR	2016	25C772RS-D	2058	25C785-RED	2058
25C724G	2009	25C733GRN	2016	25C738K	2010	25C761R	2016	25C772X	2058	25C785-Y	2058
25C724V	2009	25C733H	2016	25C738L	2010	25C761X	2016	25C772Y	2058	25C785-YEL	2058
25C724X	2009	25C733J	2016	25C738M	2010	25C761Y	2016	25C773	2059	25C785A	2058
25C725	2009	25C733K	2016	25C738OR	2010	25C761Z	2016	25C773(BCE)	2059	25C785B	2058
25C725-O	2009	25C733L	2016	25C738R	2010	25C762	2016	25C773(E)	2059	25C785BL	2058
25C725B	2009	25C733M	2016	25C738X	2010	25C762B	2016	25C773A	2059	25C785BN	2058
25C725G	2009	25C733O	2016	25C738Y	2010	25C762C	2016	25C773B	2059	25C785BR	2058
25C725V	2009	25C733OR	2016	25C739	2010	25C762D	2016	25C773C	2059	25C785BRN	2058
25C725Y	2009	25C733Q	2016	25C739A	2010	25C762E	2016	25C773C(BCE)	2059	25C785C	2058
25C726	2009	25C733R	2016	25C739B	2010	25C762F	2016	25C773D	2059	25C785D	2058
25C727	2009	25C733S	2016	25C739C	2010	25C762G	2016	25C773D(BCE)	2059	25C785E	2058
25C727A	2009	25C733S-BL	2016	25C739D	2010	25C762GN	2016	25C773E	2059	25C785F	2058
25C727B	2009	25C733V	2016	25C739E	2010	25C762H	2016	25C773E(BCE)	2059	25C785G	2058
25C727C	2009	25C733X	2016	25C739F	2010	25C762J	2016	25C773F	2059	25C785GN	2058
25C727D	2009	25C733Y	2016	25C739G	2010	25C762K	2016	25C773G	2059	25C785GR	2058
25C727E	2009	25C733YEL	2016	25C739GN	2010	25C762L	2016	25C773GN	2059	25C785H	2058
25C727F	2009	25C734	2016	25C739H	2010	25C762M	2016	25C773H	2059	25C785K	2058
25C727G	2009	25C734(O)	2016	25C739K	2010	25C762R	2016	25C773J	2059	25C785L	2058
25C727GN	2009	25C734(R)	2016	25C739L	2010	25C762X	2016	25C773K	2059	25C785M	2058
25C727H	2009	25C734(Y)	2016	25C739M	2010	25C762Y	2016	25C773L	2059	25C785O	2058
25C727J	2009	25C734-0	2016	25C739OR	2010	25C763	2016	25C773M	2059	25C785R	2058
25C727K	2009	25C734-G	2016	25C739R	2010	25C763-OR	2016	25C773OR	2059	25C785RA	2058
25C727L	2009	25C734-GRN	2016	25C739Y	2010	25C763A	2016	25C773R	2059	25C785RED	2058
25C727M	2009	25C734-0	2016	25C740	2010	25C763B	2016	25C773X	2059	25C785V	2058
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25C727X	2009	25C734-ORG	2016	25C740B	2010	25C763CD	2016	25C780	2059	25C785Y	2058
25C727Y	2009	25C734-OY	2016	25C740C	2010	25C763D	2016	25C780-O	2059	25C785YEL	2058
25C728	2009	25C734-R	2016	25C740D	2010	25C763E	2016	25C780-ORG-G	2059	25C786	2016
25C728A	2009	25C734-RED	2016	25C740E	2010	25C763F	2016	25C780-R	2059	25C786A	2016
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25C728C	2009	25C734A	2016	25C740G	2010	25C763GN	2016	25C780-Y	2059	25C786C	2016
25C728D	2009	25C734B	2016	25C740GN	2010	25C763H	2016	25C780-YEL-G	2059	25C786D	2016
25C728E	2009	25C734C	2016	25C740H	2010	25C763J	2016	25C780A	2059	25C786E	2016
25C728F	2009	25C734D	2016	25C740J	2010	25C763K	2016	25C780A/G	2059	25C786F	2016
25C728G	2009	25C734E	2016	25C740K	2010	25C763L	2016	25C780AG-0	2059	25C786G	2016
25C728GN	2009	25C734F	2016	25C740L	2010	25C763M	2016	25C780AG-A	2059	25C786GN	2016
25C728H	2009	25C734G	2016	25C740M	2010	25C763OR	2016	25C780AG-O	2059	25C786H	2016
25C728J	2009	25C734GN	2016	25C740OR	2010	25C763X	2016	25C780AG-R	2059	25C786J	2016
25C728K	2009	25C734GR	2016	25C740R	2010	25C763Y	2016	25C780AG-Y	2059	25C786K	2016
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25C728R	2009	25C734K	2016	25C744A	2030	25C767	2041	25C780E	2059	25C786R	2016
25C728X	2009	25C734K/GR	2016	25C748	2010	25C771	2058	25C780F	2059	25C786X	2016
25C728Y	2009	25C734L	2016	25C748A	2010	25C771A	2058	25C780G	2059	25C786Y	2016
25C732	2016	25C734M	2016	25C748C	2010	25C771B	2058	25C780GA	2059	25C787	2016
25C732-B	2016	25C734O	2016	25C748D	2010	25C771BX	2058	25C780GN	2059	25C787A	2016
25C732-BLU	2016	25C734OR	2016	25C748E	2010	25C771C	2058	25C780G-O	2059	25C787B	2016
25C732-G	2016	25C734R	2016	25C748F	2010	25C771D	2058	25C780G-R	2059	25C787C	2016
25C732-GRN	2016	25C734RED	2016	25C748G	2010	25C771E	2058	25C780G-Y	2059	25C787D	2016
25C732-OR	2016	25C734X	2016	25C748GN	2010	25C771F	2058	25C780H	2059	25C787E	2016
25C732-V	2016	25C734Y	2016	25C748H	2010	25C771G	2058	25C780I	2059	25C787F	2016
25C732-V10	2016	25C734YEL	2016	25C748J	2010	25C771GN	2058	25C780K	2059	25C787G	2016
25C732-VIO	2016	25C735	2016	25C748K	2010	25C771H	2058	25C780L	2059	25C787GN	2016
25C732A	2016	25C735(0)	2016	25C748L	2010	25C771J	2058	25C780M	2059	25C787H	2016
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25C732BL-1	2016	25C735/4454C	2016	25C748R	2010	25C771M	2058	25C780R	2059	25C787M	2016
25C732BLU	2016	25C735-0	2016	25C748X	2010	25C771OR	2058	25C780X	2059	25C787OR	2016
25C732C	2016	25C735-GRN	2016	25C748Y	2010	25C771R	2058	25C780Y	2059	25C801	2030
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25C732E	2016	25C735-OR	2016	25C752	2009	25C771Y	2058	25C784(BN)</			

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2SC814X	2009	2SC828AP	2009	2SC838(M)	2059	2SC850A	2009	2SC869K	2061	2SC876C	2030
2SC814Y	2009	2SC828AQ	2009	2SC838(O)	2059	2SC850B	2009	2SC869L	2061	2SC876D	2030
2SC815	2059	2SC828AR	2009	2SC838-2	2059	2SC850C	2009	2SC869M	2061	2SC876E	2030
2SC815(M)	2059	2SC828AS	2009	2SC838-O	2059	2SC850D	2009	2SC869OR	2061	2SC876F	2030
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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25C924Y	2010	25C929Y	2010	25C936G	2055	25C945Q	2009	25C966H	2009	25C985	2010
25C925	2009	25C930	2010	25C936GN	2055	25C945Q	2009	25C966I	2009	25C985A	2016
25C925(M)	2009	25C930(D)	2010	25C936H	2055	25C945QA	2009	25C966K	2009	25C987	2016
25C925A	2009	25C930(E)	2010	25C936J	2055	25C945QL	2009	25C966L	2009	25C987A	2016
25C925B	2009	25C930-OR	2010	25C936K	2055	25C945QP	2009	25C966M	2009	25C988	2016
25C925C	2009	25C930A	2010	25C936L	2055	25C945QR	2009	25C966OR	2009	25C988A	2016
25C925D	2009	25C930B	2010	25C936M	2055	25C945R	2009	25C966R	2009	25C988B	2016
25C925E	2009	25C930BB	2010	25C936OR	2055	25C945S	2009	25C966X	2009	25C990	2020
25C925F	2009	25C930BK	2010	25C936R	2055	25C945RA	2009	25C966Y	2009	25C992	2009
25C925G	2009	25C930BV	2010	25C936S	2055	25C945RQ	2009	25C967	2009	25C993D	2030
25C925GN	2009	25C930C	2010	25C936Y	2055	25C945S	2009	25C967A	2009	25C993E	2009
25C925H	2009	25C930CK									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
25C1023G	2010	25C1046K	2055	25C1101M	2055	25C1164H	2059	25C1209E	2009	25C1247AFV	2059
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25C1023H	2010	25C1046M	2055	25C1101R	2055	25C1164L	2059	25C1210C	2009	25C1247AV	2059
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25C1023L	2010	25C1046R	2055	25C1107	2020	25C1166OR	2059	25C1211	2009	25C1254	2030
25C1023M	2010	25C1046S	2055	25C1108	2020	25C1166R	2059	25C1211C	2009	25C1274	2009
25C1023OR	2010	25C1046Y	2055	25C1109	2020	25C1166U	2059	25C1211D	2009	25C1276	2016
25C1023R	2010	25C1047	2010	25C1110	2020	25C1166X	2059	25C1211E	2009	25C1278	2061
25C1023X	2010	25C1047A	2010	25C1115	2041	25C1166Y	2059	25C1213	2009	25C1278S	2061
25C1023Y	2010	25C1047B	2010	25C1117	2016	25C1170	2055	25C1213(A)	2009	25C1279	2061
25C1026	2010	25C1047BC	2010	25C1117A	2016	25C1170(B)	2055	25C1213(B)	2009	25C1279S	2061
25C1026(G)	2010	25C1047CD	2010	25C1117B	2016	25C1170-OR	2055	25C1213-OR	2009	25C1280	2060
25C1026-O	2010	25C1047C	2010	25C1117C	2016	25C1170A	2055	25C1213A	2009	25C1280A	2060
25C1026-R	2010	25C1047D	2010	25C1117D	2016	25C1170B	2055	25C1213A(C)	2009	25C1280AS	2060
25C1026A	2010	25C1047E	2010	25C1117E	2016	25C1170FA-2	2055	25C1213AA	2009	25C1280S	2060
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25C1026BL	2010	25C1047G	2010	25C1117G	2016	25C1170D	2055	25C1213AC	2009	25C1283	2009
25C1026C	2010	25C1047GN	2010	25C1117GN	2016	25C1170E	2055	25C1213AD	2009	25C1285	2009
25C1026D	2010	25C1047GR	2010	25C1117H	2016	25C1170F	2055	25C1213AK	2009	25C1285S	2009
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25C1026F	2010	25C1047J	2010	25C1117K	2016	25C1170G	2055	25C1213AKB	2009	25C1293(3RD-IF)	2009
25C1026G	2010	25C1047K	2010	25C1117L	2016	25C1170GN	2055	25C1213AKC	2009	25C1293(A)	2010
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25C1026H	2010	25C1047R	2010	25C1117R	2016	25C1170K	2055	25C1213BC	2009	25C1293B	2010
25C1026J	2010	25C1047X	2010	25C1117X	2016	25C1170L	2055	25C1213C	2009	25C1293B(3RD-IF)	2009
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25C1026L	2010	25C1048DC	2016	25C1123	2009	25C1170R	2055	25C1213D	2009	25C1293B(LAST-IF)	2009
25C1026M	2010	25C1051	2041	25C1123A	2009	25C1170T	2055	25C1213E	2009	25C1293C	2010
25C1026OR	2010	25C1051C	2041	25C1123B	2009	25C1170X	2055	25C1213F	2009	25C1293C(3RD-IF)	2009
25C1026R	2055	25C1051D	2041	25C1123C	2009	25C1170Y	2055	25C1213G	2009	25C1293D	2010
25C1026X	2010	25C1051E	2041	25C1123D	2009	25C1171	2055	25C1213GN	2009	25C1295	2055
25C1026Y	2010	25C1051F	2041	25C1123E	2009	25C1172	2055	25C1213H	2009	25C1295-O	2055
25C1032	2010	25C1051LC	2041	25C1123F	2009	25C1172A	2055	25C1213J	2009	25C1295-O	2055
25C1032A	2055	25C1123LD	2041	25C1123GN	2009	25C1172B	2055	25C1213K	2009	25C1295A	2055
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25C1032BL	2010	25C1051LF	2041	25C1123J	2009	25C1172D	2055	25C1213M	2009	25C1308	2055
25C1032C	2010	25C1052	2030	25C1123K	2009	25C1172E	2055	25C1213OR	2009	25C1308K	2055
25C1032D	2010	25C1053	2030	25C1123L	2009	25C1172F	2055	25C1213X	2009	25C1308L	2055
25C1032E	2010	25C1054	2016	25C1123M	2009	25C1172G	2055	25C1213Y	2009	25C1308N	2055
25C1032F	2055	25C1060	2020	25C1123OR	2009	25C1172GN	2055	25C1214	2009	25C1309	2055
25C1032G	2010	25C1060(C,D)	2020	25C1123R	2009	25C1172H	2055	25C1214(B)	2009	25C1310	2009
25C1032GN	2010	25C1060A	2020	25C1123S	2009	25C1172J	2055	25C1214A	2009	25C1310D	2009
25C1032H	2010	25C1060B	2020	25C1123Y	2009	25C1172K	2055	25C1214B	2009	25C1310E	2009
25C1032J	2010	25C1060BL	2020	25C1126	2055	25C1172L	2055	25C1214C	2009	25C1310F	2009
25C1032K	2010	25C1060BM	2020	25C1126A	2055	25C1172M	2055	25C1214D	2009	25C1311	2009
25C1032L	2010	25C1060BY	2020	25C1126B	2055	25C1172R	2055	25C1215	2010	25C1311D	2009
25C1032M	2010	25C1060C	2020	25C1126C	2055	25C1172X	2055	25C1215C	2010	25C1311E	2009
25C1032OR	2010	25C1060D	2020	25C1126F	2055	25C1172Y	2055	25C1215D	2010	25C1311F	2009
25C1032R	2010	25C1060E	2020	25C1126GN	2055	25C1173	2020	25C1215E	2010	25C1312	2016
25C1032X	2010	25C1060F	2020	25C1126J	2055	25C1173(O)	2020	25C1215F	2010	25C1312A	2016
25C1032Y	2010	25C1060G	2020	25C1126K	2055	25C1173(R,F,PWR)	2020	25C1215G	2010	25C1312C	2016
25C1033	2061	25C1060GN	2020	25C1126L	2055	25C1173-O	2020	25C1215GN	2010	25C1312D	2016
25C1033A	2061	25C1060H	2020	25C1126M	2055	25C1173-B	2020	25C1215H	2010	25C1312E	2016
25C1033B	2061	25C1060J	2020	25C1126OR	2055	25C1173-C	2020	25C1215J	2010	25C1312F	2016
25C1033C	2061	25C1060K	2020	25C1126R	2055	25C1173-GR	2020	25C1215K	2010	25C1312G	2016
25C1033D	2061	25C1060L	2020	25C1126X	2055	25C1173-O	2020	25C1215L	2010	25C1312GN	2016
25C1033E	2061	25C1060M	2020	25C1126Y	2055	25C1173-R	2020	25C1215M	2010	25C1312H	2016
25C1033F	2061	25C1060OR	2020	25C1128	2055	25C1173A	2020	25C1215OR	2010	25C1312J	2016
25C1033G	2061	25C1060R	2020	25C1128(M)	2055	25C1173B	2020	25C1215R	2010	25C1312K	2016
25C1033GN	2061	25C1060X	2020	25C1128(S)	2055	25C1173C	2020	25C1215S	2010	25C1312L	2016
25C1033H	2061	25C1060Y	2020	25C1128-O	2055	25C1173GR	2020	25C1215X	2010	25C1312M	2016
25C1033J	2061	25C1061	2020	25C1128A	2055	25C1173R	2020	25C1216	2055	25C1312OR	2016
25C1033K	2061	25C1061(B)	2020	25C1128B	2055	25C1173XO	2020	25C1218	2030	25C1312R	2016
25C1033L	2061	25C1061(C)	2020	25C1128BL	2016	25C1173X	2020	25C1219	2059	25C1312X	2016
25C1033OR	2061	25C1061A	2020	25C1128C	2055	25C1173X(RF-PWR)	2020	25C1220	2059	25C1312Y	2016
25C1033R	2061	25C1061B	2020	25C1128D	2055	25C1173X(Y)	2020	25C1220(E)	2059	25C1312YF	2016
25C1033X	2061	25C1061BM	2020	25C1128G	2055	25C1173XO	2020	25C1220-003	2059	25C1312YG	2016
25C1033Y	2061	25C1061BT	2020	25C1128H	2055	25C1173XY	2020	25C1220A	2059	25C1312YH	2016
25C1035	2016	25C1061C	2020	25C1128M	2055	25C1173Y	2020	25C1220A(QPR)	2059	25C1313	2016
25C1035C	2016	25C1061D	2020	25C1128R	2055	25C1175	2059	25C1220AP	2059	25C1313B	2016
25C1035D	2016	25C1061KA	2020	25C1128S	2055	25C1175(D,E,F)	2059	25C1220AQ	2059	25C1313F	2016
25C1035E	2016	25C1061KB	2020	25C1128Y	2055	25C1175-C	2059	25C1220AR	2059	25C1313G	2016
25C1036	2016	25C1061KC	2020	25C1129	2055	25C1175D	2059	25C1220E	2059	25C1313H	2016
25C1044	2016	25C1061T	2020	25C1129(M)	2055	25C1175CTV	2059	25C1220F	2059	25C1313Y	2016
25C1045	2055	25C1061T-B	2020	25C1129D	2055	25C1175D	2059	25C1220P	2059	25C1313YE	2016
25C1045(B)	2055	25C1061TB	2020	25C1129-O	2055	25C1175E	2059	25C1220Q	2059	25C1313YG	2016
25C1045B	2055	25C1067	2016	25C1129A	2055	25C1175E,D,F	2059	25C1220R	2059	25C1313YH	2016
25C1045C	2055	25C1070	2016	25C1129B	2055	25C1175F	2059	25C1222	2016	25C1317	2059
25C1045D	2055	25C1071	2009	25C1129BL	2055	25C1180	2016	25C1222A	2016	25C1317(P)	2059
25C1045E	2055	25C1072	2030	25C1129C	2055	25C1182	2055	25C1222B	2016	25C1317(S)	2059
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25C1045GN	2055	25C1077R	2041	25C1129R	2055	25C1182D	2016	25C1222E	2016	25C1317B	2059
25C1045H	2055	25C1077Y	2041	25C1129Y	2055	25C1184	2055	25C1222U	2016	25C1317BC	2059
25C1045J	2055	25C1080	2041	25C1130	2055	25C1184A	2055	25C1231	2061	25C1317C	2059
25C1045K	2055	25C1080-R	2030	25C1132	2055	25C1184B	2055	25C1236	2058	25C1317D	2059
25C1045L	2055	25C1080R	2041	25C1133	2055	25C1184C	2055	25C1240	2058	25C1317E	2059
25C1045M	2055	25C1080Y									

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
2SC1343	2041	2SC1390V	2009	2SC1540	2009	2SC1684QR	2059	2SC1834	2009	2SC2027	2055	2SC2320LE	2009
2SC1343A	2041	2SC1390VW	2009	2SC1541	2009	2SC1684R	2059	2SC1840	2016	2SC2035	2009	2SC2320LF	2009
2SC1343B	2041	2SC1390VWH	2009	2SC1542	2016	2SC1684RST	2059	2SC1844	2016	2SC2051	2009	2SC2350	2020
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2SC1343C	2041	2SC1390VWX	2009	2SC1544	2009	2SC1684T	2016	2SC1850	2009	2SC2055	2009	2SC2363	2009
2SC1343D	2041	2SC1390X	2009	2SC1546	2060	2SC1685	2009	2SC1851	2009	2SC2057	2058	2SC2375	2061
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2SC1343J	2041	2SC1395	2010	2SC1573PQ	2061	2SC1686	2058	2SC1856	2058	2SC2076B	2009	2SC2511B	2059
2SC1343K	2041	2SC1396	2010	2SC1573Q	2061	2SC1686B	2058	2SC1856M	2058	2SC2076B(CB)	2009	2SC2511C	2059
2SC1343L	2041	2SC1398	2020	2SC1573R	2061	2SC1687	2058	2SC1857	2009	2SC2076B(C)	2009	2SC2511D	2059
2SC1343M	2041	2SC1398P	2020	2SC1596	2009	2SC1688	2058	2SC1875L	2055	2SC2076B(CB)	2009	2SC2570	2010
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2SC1343X	2041	2SC1411	2009	2SC1622	2016	2SC1708	2007	2SC1894K	2055	2SC2076D	2009	2SC2575F(BCE)	2009
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2SC1344(E)	2016	2SC1413A	2055	2SC1623	2016	2SC1720	2061	2SC1897	2030	2SC2107	2009	2SC2575LF(BCE)	2009
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2SC1344D	2016	2SC1413C	2055	2SC1624-O	2020	2SC1730L	2010	2SC1907	2010	2SC2110	2030	2SC2603D	2059
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2SC1344F	2016	2SC1413E	2055	2SC1624T	2020	2SC1734H	2009	2SC1908E	2058	2SC2120	2059	2SC2603F	2059
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2SC1345(E)	2016	2SC1413G	2055	2SC1625	2020	2SC1735D	2009	2SC1919C	2010	2SC2120-0	2009	2SC2610B	2061
2SC1345C	2016	2SC1413GN	2055	2SC1625-LBGL1	2020	2SC1735E	2009	2SC1921	2061	2SC2120-Y	2059	2SC2610BK	2061
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2SC1352	2009	2SC1413Y	2055	2SC1627-O	2059	2SC1740E	2009	2SC1941	2061	2SC2188	2009	2SC2669-R	2059
2SC1358	2055	2SC1416	2009	2SC1627-Y	2059	2SC1740L	2009	2SC1941K	2061	2SC2190	2055	2SC2669-Y	2059
2SC1358A	2055	2SC1416A	2009	2SC1627A	2059	2SC1740LN	2009	2SC1941L	2061	2SC2193	2061	2SC2670	2059
2SC1358B	2055	2SC1416BL	2009	2SC1627B	2059	2SC1740LNS	2009	2SC1941M	2061	2SC2206	2009	2SC2670-Y	2059
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2SC1358K2	2055	2SC1417(V.G)	2010	2SC1627D	2059	2SC1740Q	2009	2SC1959	2009	2SC2206C	2009	2SC2670-Y	2059
2SC1358K3	2055	2SC1417(W)	2010	2SC1627E	2059	2SC1740QH	2009	2SC1959-Y	2009	2SC2206Q	2009	2SC2670-Y	2059
2SC1358L	2055	2SC1417C	2010	2SC1627F	2059	2SC1740QJ	2009	2SC1959-Y	2009	2SC2206R	2009	2SC2670-Y	2059
2SC1358P	2055	2SC1417D	2010	2SC1627G	2059	2SC1740QR	2009	2SC1959Y	2009	2SC2210	2058	2SC2670-Y	2059
2SC1358Q	2055	2SC1417DU	2010	2SC1627H	2059	2SC1740R	2009	2SC1959Y	2009	2SC2228	2061	2SC2670-Y	2059
2SC1358R	2055	2SC1417F	2010	2SC1632	2009	2SC1740RH	2009	2SC1960	2009	2SC2228A	2061	2SC2670-Y	2059
2SC1359	2009	2SC1417G	2010	2SC1633	2009	2SC1740RL	2009	2SC1973	2009	2SC2228B	2061	2SC2670-Y	2059
2SC1359A	2009	2SC1417H	2010	2SC1634	2009	2SC1740RM	2009	2SC1983	2068	2SC2228D	2061	2SC2670-Y	2059
2SC1359B	2009	2SC1417U	2010	2SC1635	2030	2SC1740RS	2009	2SC1983R	2068	2SC2228E	2061	2SC2670-Y	2059
2SC1359C	2009	2SC1417V	2010	2SC1636	2010	2SC1740S	2009	2SC1984	2068	2SC2228F	2061	2SC2670-Y	2059
2SC1359D	2009	2SC1417VW	2010	2SC1637	2016	2SC1741	2009	2SC1985	2020	2SC2228G	2061	2SC2670-Y	2059
2SC1359E	2009	2SC1417VW	2010	2SC1639	2009	2SC1741Q	2009	2SC1986	2020	2SC2228H	2061	2SC2670-Y	2059
2SC1359F	2009	2SC1417W	2010	2SC1641	2009	2SC1741A	2009	2SC1988	2014	2SC2228Y	2061	2SC2670-Y	2059
2SC1360	2016	2SC1418	2020	2SC1641Q	2009	2SC1741A	2009	2SC1989	2014	2SC2229	2061	2SC2670-Y	2059
2SC1361	2059	2SC1418A	2020	2SC1641R	2009	2SC1741B	2009	2SC1990	2010	2SC2229-0	2061	2SC2670-Y	2059
2SC1362	2059	2SC1418B	2020	2SC1641S	2009	2SC1741C	2009	2SC1990B	2010	2SC2229-O	2061	2SC2670-Y	2059
2SC1363	2009	2SC1418C	2020	2SC1641T	2016	2SC1741D	2009	2SC1991	2009	2SC2229M	2061	2SC2670-Y	2059
2SC1364	2009	2SC1418D	2020	2SC1641U	2016	2SC1741E	2009	2SC1992	2009	2SC2229N	2061	2SC2670-Y	2059
2SC1364-4	2059	2SC1419	2020	2SC1641V	2016	2SC1741F	2009	2SC1993	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364-4	2059	2SC1419A	2020	2SC1641W	2016	2SC1741G	2009	2SC1994	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364-OR	2059	2SC1419B	2020	2SC1641X	2016	2SC1741H	2009	2SC1995	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364A	2059	2SC1419C	2020	2SC1641Y	2016	2SC1741I	2009	2SC1996	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364B	2059	2SC1419D	2020	2SC1641Z	2016	2SC1741J	2009	2SC1997	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364C	2059	2SC1427	2058	2SC1642	2016	2SC1741K	2009	2SC1998	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364D	2059	2SC1428	2016	2SC1643	2061	2SC1741L	2009	2SC1999	2016	2SC2229Y	2061	2SC2670-Y	2059
2SC1364E	2059	2SC1438	2009	2SC1644	2061	2SC1741M	2009	2SC2000	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364H	2059	2SC1439	2009	2SC1645	2061	2SC1741N	2009	2SC2000-K	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364K	2059	2SC1444	2020	2SC1646	2061	2SC1741O	2009	2SC2000-L	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364L	2059	2SC1445	2020	2SC1647	2061	2SC1741P	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364M	2059	2SC1446	2020	2SC1648	2016	2SC1741Q	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364OR	2059	2SC1447	2020	2SC1649	2016	2SC1741R	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364P	2059	2SC1448	2020	2SC1650	2016	2SC1741S	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364R	2059	2SC1449	2020	2SC1651	2016	2SC1741T	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364S	2059	2SC1450	2020	2SC1652	2016	2SC1741U	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364T	2059	2SC1451	2020	2SC1653	2016	2SC1741V	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364U	2059	2SC1452	2020	2SC1654	2016	2SC1741W	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364V	2059	2SC1453	2020	2SC1655	2016	2SC1741X	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364W	2059	2SC1454	2020	2SC1656	2016	2SC1741Y	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364X	2059	2SC1455	2020	2SC1657	2016	2SC1741Z	2009	2SC2000-M	2009	2SC2229Y	2061	2SC2670-Y	2059
2SC1364													

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2SC3940J	2058	2SC5430R	2058	2SD49G	2020	2SD141J	2020	2SD175E	2041	2SD205OR	2030
2SC3940K	2058	2SC5430X	2058	2SD49GN	2020	2SD141K	2020	2SD175F	2041	2SD205R	2030
2SC3940L	2058	2SC5430Y	2058	2SD49J	2020	2SD141L	2020	2SD175G	2041	2SD205X	2030
2SC3940M	2058	2SC5461A	2058	2SD49K	2020	2SD141M	2020	2SD175GN	2041	2SD205Y	2030
2SC3940R	2058	2SC5461B	2058	2SD49L	2020	2SD141OR	2020	2SD175H	2041	2SD211	2041
2SC3940S	2058	2SC5461C	2058	2SD49M	2020	2SD141R	2020	2SD175I	2041	2SD211-OR	2041
2SC3940T	2058	2SC5461D	2058	2SD49OR	2020	2SD141X	2020	2SD175K	2041	2SD211A	2041
2SC3940Y	2058	2SC5461E	2058	2SD49R	2020	2SD141Y	2020	2SD175L	2041	2SD211B	2041
2SC-4033	2058	2SC5461F	2010	2SD49Y	2020	2SD146	2020	2SD175M	2041	2SD211C	2041
2SC4033A	2058	2SC5461G	2058	2SD52	2041	2SD146A	2020	2SD175OR	2041	2SD211D	2041
2SC4033B	2058	2SC5461H	2058	2SD53	2041	2SD146B	2020	2SD175R	2041	2SD211E	2041
2SC4033C	2058	2SC5461I	2058	2SD56	2041	2SD146C	2020	2SD175S	2041	2SD211F	2041
2SC4033D	2058	2SC5461J	2058	2SD67	2041	2SD146D	2020	2SD175T	2041	2SD211G	2041
2SC4033E	2058	2SC5461K	2058	2SD67C	2041	2SD146E	2020	2SD175V	2041	2SD211H	2041
2SC4033F	2058	2SC5461L	2058	2SD67D	2041	2SD146F	2020	2SD182	2030	2SD211I	2041
2SC4033G	2058	2SC5461M	2058	2SD67E	2041	2SD146G	2020	2SD182A	2030	2SD211J	2041
2SC4033GN	2058	2SC5461OR	2058	2SD67F	2041	2SD146GN	2020	2SD182B	2030	2SD211K	2041
2SC4033H	2058	2SC5461R	2058	2SD74	2009	2SD146H	2020	2SD182C	2030	2SD211L	2041
2SC4033J	2058	2SC5461X	2058	2SD74A	2009	2SD146J	2020	2SD182D	2030	2SD211M	2041
2SC4033K	2058	2SC5461Y	2058	2SD74B	2009	2SD146K	2020	2SD182E	2030	2SD211OR	2041
2SC4033L	2058	2SC5469A	2058	2SD74C	2009	2SD146L	2020	2SD182F	2030	2SD211R	2041
2SC4033M	2058	2SC5469B	2058	2SD74D	2009	2SD146OR	2020	2SD182G	2030	2SD211X	2041
2SC4033OR	2058	2SC5469C	2058	2SD74E	2009	2SD146R	2020	2SD182GN	2030	2SD211Y	2041
2SC4033R	2058	2SC5469D	2058	2SD90	2020	2SD146UK	2020	2SD182H	2030	2SD212	2041
2SC4033S	2058	2SC5469E	2058	2SD90A	2020	2SD146VK	2020	2SD182I	2030	2SD213	2041
2SC4033V	2058	2SC5469F	2058	2SD90B	2020	2SD146V	2020	2SD182K	2030	2SD214	2041
2SC4116	2020	2SC5469G	2058	2SD90C	2020	2SD147	2020	2SD182L	2030	2SD215	2030
2SC4116A	2020	2SC5469H	2058	2SD90D	2020	2SD147A	2020	2SD182OR	2030	2SD216	2030
2SC4116B	2020	2SC5469I	2058	2SD90E	2020	2SD147B	2020	2SD182R	2030	2SD219	2030
2SC4116C	2020	2SC5469J	2058	2SD90F	2020	2SD147C	2020	2SD182X	2030	2SD219A	2030
2SC4116D	2020	2SC5469K	2058	2SD90G	2020	2SD147D	2020	2SD182Y	2030	2SD219B	2030
2SC4116E	2020	2SC5469L	2058	2SD90GN	2020	2SD147E	2020	2SD183	2030	2SD219C	2030
2SC4116F	2020	2SC5469M	2058	2SD90H	2020	2SD147F	2020	2SD183B	2030	2SD219D	2030
2SC4116G	2020	2SC5469N	2058	2SD90I	2020	2SD147G	2020	2SD183C	2030	2SD219E	2030
2SC4116GN	2020	2SC5469R	2058	2SD90J	2020	2SD147GN	2020	2SD183GN	2030	2SD219F	2030
2SC4116H	2020	2SC5469S	2058	2SD90K	2020	2SD147H	2020	2SD183H	2030	2SD219G	2030
2SC4116J	2020	2SC5469T	2058	2SD90L	2020	2SD147I	2020	2SD183L	2030	2SD219GN	2030
2SC4116K	2020	2SC5469Y	2058	2SD90M	2020	2SD147J	2020	2SD183OR	2030	2SD219H	2030
2SC4116L	2020	2SD12	2041	2SD90OR	2020	2SD147K	2020	2SD183R	2030	2SD219J	2030
2SC4116M	2020	2SD18(RECTIFIER)	1104	2SD90X	2020	2SD147M	2020	2SD184	2020	2SD219K	2030
2SC4116OR	2020	2SD26D	2041	2SD90Y	2020	2SD147OR	2020	2SD184A	2020	2SD219L	2030
2SC4116R	2020	2SD26E	2041	2SD91	2020	2SD147R	2020	2SD184B	2020	2SD219M	2030
2SC4116X	2020	2SD26F	2041	2SD91A	2020	2SD147X	2020	2SD184C	2020	2SD219OR	2030
2SC4116Y	2020	2SD26G	2041	2SD91B	2020	2SD147Y	2020	2SD184D	2020	2SD219R	2030
2SC5369	2010	2SD26GN	2041	2SD91C	2020	2SD148	2020	2SD184E	2020	2SD219X	2030
2SC5430OR	2058	2SD26H	2041	2SD91D	2020	2SD149	2030	2SD184F	2020	2SD219Y	2030
2SC7108B	2009	2SD26J	2041	2SD91E	2020	2SD154	2020	2SD184H	2020	2SD220	2030
2SC7335-BL	2009	2SD26K	2041	2SD91F	2020	2SD154(L)	2020	2SD184J	2020	2SD220A	2030
2SC7354	2009	2SD26L	2041	2SD91G	2020	2SD154A	2020	2SD184K	2020	2SD220B	2030
2SC8290	2058	2SD26M	2041	2SD91GN	2020	2SD154B	2020	2SD184L	2020	2SD220C	2030
2SC8380	2058	2SD26OR	2041	2SD91H	2020	2SD154C	2020	2SD184M	2020	2SD220D	2030
2SC9011E	2009	2SD26R	2041	2SD91I	2020	2SD154E	2020	2SD184OR	2020	2SD220E	2030
2SC9011F	2009	2SD26X	2041	2SD91L	2020	2SD154F	2020	2SD184Y	2020	2SD220F	2030
2SC9011H	2009	2SD26Y	2041	2SD91M	2020	2SD154G	2020	2SD185	2020	2SD220G	2030
2SC13838	2030	2SD28A	2020	2SD91OR	2020	2SD154GN	2020	2SD189	2041	2SD220GN	2030
2SC13901	2009	2SD28B	2020	2SD91R	2020	2SD154H	2020	2SD189A	2041	2SD220H	2030
2SC14505	2020	2SD28C	2020	2SD91X	2020	2SD154J	2020	2SD189B	2041	2SD220J	2030
2SC17401	2009	2SD28D	2020	2SD91Y	2020	2SD154K	2020	2SD189C	2041	2SD220K	2030
2SC822	2007	2SD28E	2020	2SD107	2041	2SD154L	2020	2SD189D	2041	2SD220L	2030
2SD078	2020	2SD28F	2020	2SD108	2041	2SD154M	2020	2SD189E	2041	2SD220M	2030
2SCF1	2010	2SD28G	2020	2SD110	2041	2SD154R	2020	2SD189F	2041	2SD220OR	2030
2SCF1A	2058	2SD28GN	2020	2SD110-B	2041	2SD154X	2020	2SD189G	2041	2SD220R	2030
2SCF1B	2058	2SD28H	2020	2SD110-O	2041	2SD154Y	2020	2SD189GN	2041	2SD220X	2030
2SCF1C	2058	2SD28J	2020	2SD110-K	2041	2SD163	2041	2SD189H	2041	2SD220Y	2030
2SCF1D	2058	2SD28K	2020	2SD110-Y	2041	2SD164	2041	2SD189J	2041	2SD221	2030
2SCF1E	2058	2SD28L	2020	2SD111	2041	2SD172	2041	2SD189K	2041	2SD226-O	2020
2SCF1F	2058	2SD28M	2020	2SD111-O	2041	2SD172A	2041	2SD189M	2041	2SD227	2009
2SCF1G	2058	2SD28OR	2020	2SD111-ORG	2041	2SD172B	2041	2SD189OR	2041	2SD227(PANASONIC)	
2SCF1GN	2058	2SD28R	2020	2SD111-R	2041	2SD172C	2041	2SD189R	2041		
2SCF1H	2058	2SD28X	2020	2SD111-RED	2041	2SD172D	2041	2SD189X	2041	2SD227-175	2009
2SCF1J	2058	2SD28Y	2020	2SD111-Y	2041	2SD172E	2041	2SD189Y	2041	2SD227-OR	2009
2SCF1K	2058	2SD29A	2020	2SD111-YEL	2041	2SD172F	2041	2SD199	2055	2SD227A	2009
2SCF1L	2058	2SD29B	2020	2SD111R	2041	2SD172G	2041	2SD204	2030	2SD227B	2009
2SCF1M	2058	2SD29C	2020	2SD116	2041	2SD172GN	2041	2SD204(L)	2030	2SD227C	2009
2SCF1OR	2058	2SD29F	2020	2SD118	2041	2SD172H	2041	2SD204A	2030	2SD227D	2009
2SCF1R	2058	2SD29GN	2020	2SD118BL	2041	2SD172J	2041	2SD204B	2030	2SD227E	2009
2SCF1X	2058	2SD29J	2020	2SD118R	2041	2SD172K	2041	2SD204BL	2030	2SD227F	2009
2SCF1Y	2058	2SD29K	2020	2SD118Y	2041	2SD172L	2041	2SD204C	2030	2SD227G	2009
2SCF-2	2009	2SD29L	2020	2SD119	2041	2SD172M	2041	2SD204D	2030	2SD227GN	2009
2SCF2	2009	2SD29M	2020	2SD119-BL	2041	2SD172OR	2041	2SD204E	2030	2SD227H	2009
2SCF2A	2058	2SD29OR	2020	2SD119-BLU	2041	2SD172R	2041	2SD204F	2030	2SD227I	2009
2SCF2B	2058	2SD29R	2020	2SD119-R	2041	2SD172X	2041	2SD204G	2030	2SD227LF	2009
2SCF2C	2058	2SD29X	2020	2SD119-RED	2041	2SD172Y	2041	2SD204GA	2030	2SD227M	2009
2SCF2D	2058	2SD29Y	2020	2SD119-Y	2041	2SD173	2041	2SD204GN	2030	2SD227MP	2009
2SCF2E	2058	2SD33A	2016	2SD119-YEL	2041	2SD174	2041	2SD204H	2030	2SD227OR	2009
2SCF2G	2058	2SD33B	2016	2SD119A	2041	2SD174A	2041	2SD204J	2030	2SD227Q	2009
2SCF2GN	2058	2SD33D	2016	2SD119B	2041	2SD174B	2041	2SD204K	2030	2SD227R	2009
2SCF2H	2058	2SD33E	2016	2SD119BL	2041	2SD174C	2041	2SD204L	2030	2SD227S	2009
2SCF2J	2058	2SD33F	2016	2SD119C	2041	2SD174D	2041	2SD204M	2030	2SD227V	2009
2SCF2K	2058	2SD33G	2016	2SD119D	2041	2SD174E	2041	2SD204R	2030	2SD227W	2009
2SCF2L	2058	2SD33GN	2016	2SD119R	2041	2SD174F	2041	2SD204Y	2030	2SD227X	2009
2SCF2M	2058	2SD33H	2016	2SD119Y	2041	2SD174G	2041	2SD205	2030	2SD227Y	2009
2SCF2R	2058	2SD33J	2016	2SD122	2020	2SD174GN	2041	2SD205(L)	2030	2SD228	2059
2SCF2S	2058	2SD33K	2016	2SD123	2020	2SD174H	2041	2SD205(M)	2030	2SD228A	2059
2SCF2Y	2058	2SD33L	2016	2SD134	2009	2SD174J	2041	2SD205A	2030	2SD228B	2059
2SCF5	2009	2SD33OR	2016	2SD141	2020	2SD174K	2041	2SD205B	2030	2SD228C	2059
2SCF5A	2009	2SD33X	2016	2SD141A	2020	2SD174L	2041	2SD205C	2030	2SD228D	2059
2SCF5B	2009	2SD33Y	2016	2SD141B	2020	2SD174M	2041	2SD205D	2030	2SD228E	2059
2SCF5C	2009	2SD41	2041	2SD141C	2020	2SD174R	2041	2SD20			

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2SD228OR	2059	2SD312D	2055	2SD327OR	2009	2SD389BP	2020	2SD464	2030	2SJ2A	1104	3-1477	1144
2SD228R	2059	2SD312E	2055	2SD327R	2009	2SD389L	2020	2SD461	2009	2SJ4A	1104	3A1	1114
2SD228X	2059	2SD312F	2055	2SD327Y	2009	2SD389LB	2020	2SD461S	2009	2SJ8A	1114	3A15	1141
2SD228Y	2059	2SD312G	2055	2SD328	2030	2SD389LP	2020	2SD461T	2009	2SJ60A	1104	3A30	1141
2SD234	2020	2SD312GN	2055	2SD328S	2020	2SD389LP	2020	2SD462	2009	2SK47	2062	3A90	1123
2SD234-0	2020	2SD312H	2055	2SD330	2020	2SD389P	2020	2SD4671	2059	2SK47M	2062	3A100	1114
2SD234-O	2020	2SD312J	2055	2SD330D	2020	2SD389Q	2020	2SD704	2020	2SK61	2035	3A152	1104
2SD234-ORG	2020	2SD312K	2055	2SD330E	2020	2SD389R	2020	2SD704D	2020	2SK61GR	2035	3A154	1104
2SD234-R	2020	2SD312L	2055	2SD331	2020	2SD390	2020	2SD704E	2020	2SK61Y	2035	3A156	1104
2SD234-RED	2020	2SD312M	2055	2SD334	2041	2SD390(0)	2020	2SD723	2020	2SM610B	2023	3A158	1114
2SD234-Y	2020	2SD312X	2055	2SD334A	2041	2SD390A	2020	2SD725	2055	2SN3841	2023	3A-200	1114
2SD234A	2020	2SD312Y	2055	2SD334R	2041	2SD390P	2020	2SD725-06	2055	2SO12	2020	3A200	1104
2SD234B	2020	2SD313	2048	2SD339	2041	2SD390Q	2020	2SD726	2020	2SO14	2016	3A252	1104
2SD234C	2020	2SD313(D,E)	2020	2SD340	2041	2SD392	2009	2SD726B	2020	2SO33	2041	3A254	1104
2SD234D	2020	2SD313(DE)	2020	2SD341	2041	2SD392(BCE)	2009	2SD726C	2020	2SO34	2041	3A256	1104
2SD234E	2020	2SD313A	2020	2SD341H	2041	2SD392C(BCE)	2009	2SD726D	2020	2SO35	2041	3A258	1114
2SD234F	2020	2SD313B	2020	2SD342	2020	2SD392D(BCE)	2009	2SD734	2009	2SO36	2041	3A300	1144
2SD234G	2020	2SD313C	2020	2SD343	2020	2SD392E(BCE)	2009	2SD734D	2009	2SO95A	2009	3A1510	1114
2SD234GA	2020	2SD313D	2020	2SD344	2020	2SD394	2055	2SD734E	2009	2SOO2	2061	3A2510	1114
2SD234GN	2020	2SD313DE	2020	2SD345	2020	2SD404	2020	2SD734F	2009	2SP405	2030	3AF2	1114
2SD234GR	2020	2SD313E	2020	2SD346	2020	2SD404G	2020	2SD734G	2009	2SQ371	2010	3AF4	1144
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3N114	2023	4-1545	2009	4-696234-3	2020	4J					

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-		
7-5	2009	8-0024-3	2009	8-729-117-43	2059	8-905-605-305	2007	8-905-706-730	2016	8P-2A9G	2007	9D16	1123
7-5(SARKES)	2009	8-0060	2007	8-729-118-76	2055	8-905-605-320	2007	8-905-706-790	2007	8P-2A19	2007	9D141003-12	542
7-6	2010	8-0062	2007	8-729-170-64	2009	8-905-605-444	2016	8-905-707-254	2009	8P-2A21	2007	9D1	1102
7-6(SARKES)	2009	8-00243	2009	8-729-191-61	2020	8-905-606-001	2007	8-905-707-265	2009	8P-2A82	2007	9D11	1102
7-7	2010	8-005202	2009	8-729-213-01	2061	8-905-606-003	2007	8-905-707-313	2009	8P20BLU	2020	9D12	1123
7-7(SARKES)	2009	8-0050100	2009	8-729-213-12	2061	8-905-606-007	2007	8-905-713-058	2023	8P-20	2007	9D13	1102
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7-8(SARKES)	2009	8-0050500	2007	8-729-245-83	2009	8-905-606-010	2007	8-905-713-556	2041	8P-22	2007	9D11100310	1123
7-8(STANDEL)	1173	8-0051500	2009	8-729-245-84	2009	8-905-606-016	2007	8-1074	2020	8P-23	2007	9GR2	2009
7-9	2016	8-0052102	2009	8-729-307-62	2020	8-905-606-051	2007	8-1075	2041	8P-24	2007	9L-4	2007
7-9(SARKES)	2016	8-0052902	2009	8-729-309-06	2016	8-905-606-075	2007	8-2409501	2009	8P-25	2007	9L-4-70	2007
7-10	2016	8-0052402	2041	8-729-316-16	2020	8-905-606-077	2007	8-81250108	2016	8P-26	2007	9L-4-70-12	2007
7-10(SARKES)	2016	8-0052600	2009	8-729-331-53	2020	8-905-606-090	2007	8-81250109	2009	8P-27	2007	9L-4-70-12-7	2007
7-11(SARKES)	2016	8-0053001	2009	8-729-341-34	2055	8-905-606-105	2007	8A01	1123	8P-28	2007	9L-4A0	2007
7-11(STANDEL)	1114	8-0053300	2030	8-729-348-47	2023	8-905-606-106	2007	8A1002	2040	8P-29	2007	9L-4A0R	2007
7-12	2041	8-0053400	2009	8-729-372-52	2055	8-905-606-120	2007	8A1003	2040	8P73BLU	2020	9L-4A	2007
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7-15(SARKES)	2009	8-0105300	2007	8-729-660-37	2055	8-905-606-154	2007	8C200	2023	8P445	2027	9L-4A3P	2007
7-15(STANDEL)	1114	8-0205400	2007	8-729-663-47	2009	8-905-606-155	2007	8C201	2023	8Q-000003-11	2023	9L-4A4	2007
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7-16(SARKES)	2009	8-0222631U	2007	8-729-803-04	2010	8-905-606-165	2007	8C203	2023	8Q-3-10	2016	9L-4A4-7B	2007
7-17	2009	8-0226400	2007	8-729-883-92	2009	8-905-606-168	2007	8C204	2023	8Q-3-11	2023	9L-4A5	2007
7-17(SARKES)	2009	8-0236430	2007	8-729-902-11	2009	8-905-606-180	2007	8C205	2023	8Q-3-12	2009	9L-4A5L	2007
7-18(SARKES)	2009	8-0243900	2007	8-729-978-62	2023	8-905-606-211	2007	8C206	2023	8Q-3-13	2030	9L-4A6	2007
7-19(SARKES)	2009	8-0318250	2009	8-729-37501	2059	8-905-606-225	2007	8C207	2023	8Q-3-14	2023	9L-4A6-1	2007
7-20	2010	8-0337390	2009	8-759-140-01	2401	8-905-606-241	2007	8C430	2023	8Q-7-01	1104	9L-4A7	2007
7-20(SARKES)	2009	8-0338030	2010	8-759-140-11	2411	8-905-606-255	2007	8C430K	2023	8Q-7-02	1104	9L-4A7-1	2007
7-21(SARKES)	2016	8-0338040	2010	8-759-145-58	038	8-905-606-256	2007	8C440	2023	8Q-7-03	1104	9L-4A8	2007
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7-24(SARKES)	2016	8-0339340	2009	8-759-425-00	1789	8-905-606-360	2007	8C445K	2023	9-511	2007	9L-4A82	2007
7-25(SARKES)	2016	8-0389910	2009	8-759-903-86	1731	8-905-606-375	2007	8C449	2023	9-905-606-001	2007	9L-40	2007
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7-28	2016	8-0414120	2041	8-765-500-00	2020	8-905-606-391	2007	8C450	2023	9-5110	2007	9L-42	2007
7-36	2010	8-0414130	2041	8-902-0706-071	2009	8-905-606-392	2007	8C460	2023	9-5111	2007	9L-43	2007
7-39	2010	8-0421980	2009	8-905-013-752	1104	8-905-606-405	2007	8C460K	2023	9-5116	2007	9L-44	2007
7-43	2010	8-4(BENDIX)	2009	8-905-013-759	1104	8-905-606-419	2007	8C463	2023	9-5117	2007	9L-45	2007
7-44	2010	8-22	1104	8-905-013-760	1104	8-905-606-420	2007	8C463K	2023	9-5118	2007	9L-46	2007
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48P43082A71	2010	48S40606G02	2016	48S134902	2010	48S137350	2009	48X90420A56	2020	48X97271A01	1104
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48P43086A28	2007	48S40607J01	2016	48S134905	2009	48S137370	2027	48X90432A14	2023	48X134902	2010
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48R69649	2023	48S134826	2009	48S137171	2009	48X90232A02	2009	48X97162A19	2007	50Z9-1B	562
48R69676	2020	48S134827	2009	48S137171(B)	2009	48X90232A03	2009				

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53A022-2	1123	53P161	2009	56-8091D	2007	57A1-59	2007	57A2-73	2009	57A19-1	2023
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53B012-1	2055	54GRN	2009	57-0006	1104	57A1-89	2007	57A2-192	2009	57A21-18	2016
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93L6-6	1104	96-5106-01	1143	96NPT	2010	99S039	2023	100T2A	2041	103-271	1123
93L6-7	1104	96-5107-01	2030	96XZ0778-44N	1123	99S039A	2023	100W1	2010	103-272	562
93L6-8	1114	96-5107-02	2030	96XZ0868/15X	1123	99S040	2061	100X2	2041	103-279-01	563
93L101-2	1104	96-5109-01	1104	96XZ077844N	1123	99S044</					

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488B15	2007	523-2003-0-1	1123	561-2511-400	1123	561-5032-790	1104	561-6802-369	2009	569-0773-600	1723
488C15	2007	523-2003-120	563	561-2511-503	1123	561-5034-951	1102	561-6802-375	2007	569-0773-610	038
490-2(SEARS)	2010	523-2003-150	564	561-2511-510	1123	561-5040-010	1104	561-6802-382	2007	569-0773-800	1801
491-2(SEARS)	2010	523-2003-519	565	561-2511-530	1123	561-5040-020	1104	561-6802-484	2009	569-0882-600	1801
491A948	2030	523-2003-629	561	561-2511-535	1104	561-5040-030	1104	561-6802-501	2009	569-0882-601	1801
499	2009	523-2003-919	562	561-2511-538	1123	561-5040-040	1104	561-6802-564	2007	569-0882-604	1802
499(CHRYSLER)	2020	523-2005-919	562	561-2511-540	1123	561-5040-050	1104	561-6802-714	2010	569-0882-608	1822
499(ZENITH)	2009	523-2503-150	564	561-2511-544	1123	561-5040-060	1114	561-6802-907	2023	569-0882-690	1808
499-1	2010	523-2503-519	565	561-2511-555	1123	561-5040-070	1114	561-6802-908	2023	569-2142-100	1104
500B10	1114	523-4001-001	1114	561-2511-558	1123	561-5040-060	1104	561-6802-923	2016	569-8800-090	2020
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509ES025P	2007	530-088-1003	1114	561-2554-850	1102	561-6164-275	1104	561-6803-417	2059	573-494	2010
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511-519	2009	530-111-1									

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601C	1102	610-056	2007	622C	1102	669-1(RCA)	2055	690V063H50	2007	690V102H96	2007	720-35019	2007
601X0048-066	1104	610-056-1	2007	623(RCA)	2020	674-3A5L	2007	690V063H51	2007	690V103H23	2010	720-35019A	2007
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606-6003-102	1103	612-16A	2010	642-174	2009	690V020H89	2010	690V081H08	2007	690V110H36	2030	750M63-104	2007
606-6021-101	1102	612-60039	2007	642-199	1123	690V031H33	1104	690V081H40	1171	690V110H88	1123	750M63-115	2007
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610-017-706	1102	614X4	2007	642-275	1102	690V040H60	2007	690V086H88	2009	690V118H61	2023	753-1828-001	2009
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610-036	2007	614X7	2007	642-319	2009	690V040H63	1123	690V086H92	1104	690V119H15	1102	753-2000-007	2058
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763-1	2030	800-270(PNP)	2007	807-1	2030	903-23C	1123	903-475	1124	919-01-0459	1104
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772BN	2010	800-503-00(PNP)	2007	822-1(SYLVANIA)	2016	903-36	1114	903-562	1104	919-01-0867	1123
772BY	2010	800-504-00	2007	822-2	1104	903-36A	1114	903J	2009	919-01-0873	1102
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772CC	2010	800-508-00	2009	822-4	1104	903-36C	1114	903Y002149	2009	919-01-1211	1143
772D	2010	800-509-00	2009	822-5	1104	903-36D	1114	903Y002150	2016	919-01-1212	1104
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772FE	2010	800-517-00	1123	824-1	2030	903-43B	1123	904A	2016	919-01-3059	1102
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773CL	2030	800-522-01	2009	827BRN	2009	903-49	1104	905-126	2411	919-01-3072	1104
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774ORN	2010	800-522-04	2009	829	2023	903-51	1123	905-463	1104	919-01-3082	1102
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4006(E.F. JOHNSON)	2030	4306	2030	4564	2007	4801-00154	1102	5226-2	2030	5226-2	2030
4006(SEARS)	1123	4309(AIRLINE)	2009	4565	2007	4801-00628	1123	5226-2	2030	5226-2	2030
4007(SEARS)	1123	4310(AIRLINE)	2023	4567	2007	4801-00629	1123	5226-2	2030	5226-2	2030
4008(E.F. JOHNSON)	2030	4310(AIRLINE)	2023	4587	2010	4801-00801	562	5226-2	2030	5226-2	2030
4008(SEARS)	1123	4313	2007	4589	2007	4802-00002	2010	5226-2	2030	5226-2	2030
4009(SEARS)	1123	4315	2007	4594	2009	4802-00003	2009	5226-2	2030	5226-2	2030
4010	2009	4322-542	2009	4595	2007	4802-00004	2023	5226-2	2030	5226-2	2030
4010(E.F. JOHNSON)	2010	4348	2007	4596	2007	4802-00005	2041	5226-2	2030	5226-2	2030
4010(PENNCREST)	1123	4349	2007	4603	2007	4802-00005A	2041	5226-2	2030	5226-2	2030
4010(SEARS)	1123	4351.0012	1123	4604	2007	4802-00006	2009	5226-2	2030	5226-2	2030
4011(IC)	2411	4351.0013	1123	4605	2007	4802-00009	2009	5226-2	2030	5226-2	2030
4011(PENNCREST)	1102	4351.0031	1123	4607	2007	4802-00012	2009	5226-2	2030	5226-2	2030
4011(SEARS)	1123	4354	1104	4621	2007	4802-00014	2059	5226-2	2030	5226-2	2030
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4011BFC	2411	4363GRN	2007	4633	2007	4806-0000-004	1123	5226-2	2030	5226-2	2030
4011BFM	2411	4363ORN	2007	4653	562	4806-0000-005	1114	5226-2	2030	52	

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
7109	2058	7400/9N00	1801	7921	1143	8000-0004-PO64	1102	8020-202	1102	9011G	2009	9600F	2010
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7134	2010	7414	2020	8000-00004-064	1104	8000-0005-017	1123	8301	2023	9016E	2058	9654-0331.31(NPN)	2020
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A753	2043	A1465-19	2007	A-2008-9140	1103	A59625-9	2023	A1473563-1	2023	AA109	1067	AC121VI	2007
A753-4004-248	2023	A1465A	2007	A20192C	2009	A59625-10	2023	A1473570-1	2023	AA111	1123	AC121VII	2007
A753A	2043	A1465A9	2007	A2057A2-198	2023	A59625-11	2023	A1473574-1	2023	AA112	1123	AC-122	2007
A753B	2043	A1465B	2007	A2057B2-115	2010	A59625-12	2023	A1473590-1	2023	AA112P	1123	AC122	2007
A753C	2043	A1465B9	2007	A2057B106-12	2023	A71687-1	2023	A1473591-1	2023	AA113	1123	AC122/30-GRN	2007
A754	2027	A1466-1	2007	A2057B108-6	2023	A75680	1104	A1473597-1	2023	AA114	1123	AC122/30-YEL	2007
A754A	2027	A1466-2	2007	A2311	2023	A76228	2016	A2006681-95	2010	AA115	1067	AC122-30	2007
A754B	2027	A1466-3	2007	A2332	2016	A78331	2023	A2057013-0004	2023	AA116	1067	AC122-30-YEL	2007
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A754D	2027	A1466-19	2007	A2411	2009	A95227	2023	A2057013-0702	2023	AA117	1123	AC122-G	2007
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A755B	2027	A1472-19	2009	A2418	2041	A-113110	2023	A2092693-0725	2010	AA120	1123	AC122-Y	2007
A755C	2027	A1474-3	2007	A2419	1123	A-113367(DIODE)	1103	A2370773	2016	AA121	1123	AC122GRN	2007
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A758	2043	A1488B	2007	A2421	1104	A-118038	1114	A3011112	2030	AA130	1123	AC122YEL	2007
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A759A	2023	A1519	2010	A2448	2023	A-120018	2030	A6317547	2009	AA136	1123	AC-125	2007
A759B	2023	A1520	2010	A2460	1104	A-120077	563	A6317800	2055	AA137	1123	AC125	2007
A772B1	2010	A1521	2010	A2461	1104	A-120125(DIODE)	1102	A6317900	2055	AA138	1123	AC-126	2007
A772D1	2010	A1558-17	2023	A2462	1104	A-120125(PWE-RECT.)	1114	A6317901	2055	AA139	1123	AC-128	2007
A772EH	2010	A-1567	2009	A2464	2016	A-120125(PWR RECT.)	1114	A6321241	2020	AA140	1123	AC129	2007
A772FE	2010	A1567	2009	A2465	2016	A-120125(PWR RECT.)	1114	A6324922	2061	AA142	1123	AC131	2007
A800	1114	A1567-1	2009	A2466	2009	A-120278	2009	A6325060	2061	AA143	1123	AC-132	2007
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A800-523-02	2023	A1820-0219-1	007	A2469	2009	A-120417	2023	A6502380	2023	AA200	1104	AC132-01	2007
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A825	2023	A-1853-0016-1	2023	A2471	2030	A121467	1123	A6532921	2023	AA218	1123	AC134	2007
A829	2023	A-1853-0020-1	2023	A2473	1123	A121659	563	A6534021	2023	AA300	1104	AC135	2007
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A844D	2023	A-1853-0092-1	2023	A3540	2023	A129510	2010	A6823565	2020	AA133	1123	AC150YEL	2007
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A909-1008	2007	A-1853-0099-1	2023	A3559	2023	A129513	2010	A6841440	2020	AA139	1123	AC151	2007
A909-1009	2007	A-1853-0233-1	2027	A3562	2023	A129514	2010	A6842185	2020	AA210	1123	AC151-IV	2007
A909-1010	2007	A-1853-0234-1	2027	A3563	2023	A129515	2010	A6846801	2055	AA218	1104	AC151-RIV	2007
A909-1011	2007	A-1853-0254-1	2027	A3574	2023	A129516	2010	A7000900	1123	AA218D	1104	AC151-RV	2007
A909-1012	2007	A-1853-0285-1	2023	A3581	2023	A129517	2010	A7001800	1123	AB1-9	562	AC151-RVI	2007
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A909-27125-160	2010	A-1854-0022-1	2030	A4212A	1114	A129523	2010	A7246739	1102	AB500	1114	AC151RIV	2007
A916-31025-5B	2010	A-1854-0023-1	2016	A4310	2023								

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AC160-GRN	2007	ACY44-1	2007	AF133	2007	AH810	1114	AM-G-5A	1114	AR200	2010	ASY50	2007
AC160-RED	2007	ACZ	2007	AF134	2007	AH814	1114	AM-G-5C	1114	AR200(GREEN)	2010	ASY51	2007
AC160-V	2007	ACZ21	2007	AF135	2007	AH815	1114	AM-G-10	1104	AR200(W)	2009	ASY52	2007
AC160-VIO	2007	AD-1UF	1104	AF136	2007	AH1005	1114	AM-G-22	1104	AR200W	2010	ASY54	2007
AC160-YEL	2007	AD10	1104	AF-137	2007	AH1010	1114	AM-G22	1104	AR200WHITE	2009	ASY55	2007
AC160A	2007	AD29	1114	AF137	2007	AH1015	1114	AMP2919-2	2041	AR-201	2009	ASY56	2007
AC160B	2007	AD29A-4	2023	AF137A	2007	AIE	2016	AMP-2971-4	2030	AR201	2010	ASY56N	2007
AC160GRN	2007	AD29A-5	2023	AF138	2007	AJ5	1104	AMU6A7723393	1740	AR201(Y)	2009	ASY57	2007
AC160RED	2007	AD29A-6	2023	AF138/20	2007	AJ10	1104	AN	2009	AR201(YELLOW)	2010	ASY57N	2007
AC160YEL	2007	AD29A-9	2023	AF138/290	2007	AJ15	1104	AN-1	1104	AR201Y	2010	ASY58	2007
AC-161	2007	AD29E-1	2023	AF139	2007	AJ20	1104	AN221	1759	AR201YELLOW	2009	ASY58N	2007
AC-161	2007	AD29E-2	2023	AF142	2007	AJ25	1104	AN-240	1759	AR-202	2009	ASY59	2007
AC-162	2007	AD29E4	2023	AF143	2007	AJ-30	1104	AN240	1759	AR202	2010	ASY63	2007
AC162	2007	AD29E5	2023	AF144	2007	AJ30	1104	AN240#	1759	AR202(GREEN)	2010	ASY63N	2007
AC163	2007	AD29E6	2023	AF146	2007	AJ35	1104	AN240D	1759	AR202G	2010	ASY67	2007
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AC165	2007	AD29E9	2023	AF149	2007	AJ60	1104	AN240PN	1759	AR203(RED)	2030	ASY70-V	2009
AC-166	2007	AD29E10	2023	AF150	2007	AL210	2007	AN240S	1759	AR203R	2030	ASY70-VI	2007
AC-167	2007	AD30	1102	AF164	2007	ALB6494612	2020	AN-G-5B	1104	AR204	2009	ASY76	2007
AC-168	2007	AD30A1	2023	AF165	2007	ALD-35	2009	AN-G5B	1114	AR205	2009	ASY77	2007
AC168	2007	AD30A2	2023	AF-166	2007	ALD-3141	2009	ANJ101	2023	AR206	2009	ASY80	2007
AC-169	2007	AD30A3	2023	AF166	2007	ALS-8922	2009	AO1	2007	AR208	2009	ASY82	2007
AC169	2007	AD30A4	2023	AF167	2007	ALZ10	2007	AO4091A	2007	AR209	2016	ASY84	2007
AC170	2007	AD30A5	2023	AF168	2007	AM005	1104	AO4092	1104	AR210	2016	ASY90	2007
AC171	2007	AD50	1104	AF169	2007	AM-010	1104	AO4092A	1104	AR211	2016	ASY91	2007
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AC-175A	2009	AD100(DIODE)	1102	AF171	2007	AM-020	1104	AO4093	1104	AR213	2016	ASZ11	2007
AC-175B	2009	AD150(DIODE)	1102	AF172	2007	AM020	1104	AO4093-A	1104	AR213(V)	2016	ASZ20	2007
AC-175P	2009	AD200	1104	AF178	2007	AM-025	1104	AO4093A	1104	AR213(VIOLET)	2016	ASZ20N	2007
AC177	2007	AD200(DIODE)	1102	AF179	2007	AM025	1104	AO4166-2	564	AR213V	2016	ASZ21	2007
AC182	2007	AD4001	1104	AF180	2007	AM-030	1104	AO4210A	1104	AR213VIOLET	2016	ASZ30	2007
AC-183(PNP)	2007	AD4002	1114	AF181	2007	AM030	1104	AO4212-A	1104	AR218	2058	AT0017	2059
AC184	2007	AD4003	1114	AF-182	2007	AM-035	1104	AO4212-B	1104	AR218(ORANGE)	2016	AT0025	2059
AC-184(PNP)	2007	AD4004	1114	AF182	2007	AM035	1104	AO4233	1104	AR218(RED)	2016	AT0025A	2059
AC191	2007	AD4005	1114	AF185	2007	AM040	1104	AO4234-2	562	AR218(RO)	2016	AT0045	2059
AC192	2007	AD4006	1114	AF186	2007	AM050	1104	AO4716	1104	AR218RO	2016	AT/AF1	2007
AC200	1114	AD4007	1114	AF186G	2007	AM-060	1104	AO4727	1101	AR219	2016	AT/AF2	2007
AC300	1144	ADC0801	1792	AF186W	2007	AM060	1104	AO4901A	1104	AR219(Y)	2016	AT/RF1	2007
AC400	1144	ADY-27	2007	AF187	2007	AM	2030	APB-11A-1001	2007	AR219YY	2010	AT/RF2	2007
AC9082	2023	AE1A	1114	AF188	2007	AM3	1104	APB-11A-1004	2007	AR220	2016	AT/S13	2007
AC9083	2023	AE1B	1114	AF193	2007	AM-6-5	1104	APB-11A-1008	2007	AR220(GY)	2016	AT-1	2007
AC9084	2023	AE1C	1114	AF200	2007	AM13	1104	APB-11H-1001	2007	AR220(YELLOW)	2010	AT-2	2007
AC9085	2023	AE1D	1114	AF200U	2007	AM-22	1104	APB-11H-1004	2007	AR220GREEN	2016	AT-3	2007
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ACR83-1001	2007	AE1G	1114	AF201U	2007	AM33	1104	APB-11H-1010	2007	AR221	2010	AT-5	2007
ACR83-1002	2007	AE3A	1141	AF202	2007	AM43	1104	AQ2	2030	AR222	2016	AT5	2007
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ACR83-1004	2007	AE3C	1143	AF202S	2007	AM62	1104	AQ3	2030	AR222(BY)	2016	AT6	2007
ACR83-1005	2007	AE3D	1144	AF239	2007	AM63	1104	AQ3(PHILCO)	1104	AR222(YELLOW)	2010	AT-6A	2007
ACR83-1006	2007	AE10	1102	AF239S	2007	AM65	1104	AQ4	2009	AR222BLUE	2016	AT6A	2007
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ACR83-1008	1104	AE-50	2007	AF251	2007	AM300	1102	AQ6	2009	AR222YELLOW	2016	AT-8	2007
ACR810-101	2007	AE50	1102	AF252	2007	AM300A	1102	AR7C	1104	AR224	2010	AT-9	2007
ACR810-102	2007	AE100	1102	AF253	2007	AM301	1102	AR15	2041	AR224(WHITE)	2010	AT-10	2041
ACR810-103	2007	AE150	1102	AF256	2007	AM301A	1102	AR15-L8-0026	2041	AR224(YELLOW)	2010	AT10H	2007
ACR810-104	2007	AE200	1102	AF267	2007	AM302	1102	AR16	1104	AR224WHITE	2016	AT10M	2007
ACR810-105	2007	AE920	703	AF279	2007	AM302A	1102	AR-17	2020	AR224YELLOW	2016	AT10N	2007
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ACR810-107	1123	AEX97846	2041	AF306	2007	AM303A	1102	AR17GREY	2020	AR304(GREEN)	2023	AT-12	2030
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ACY17	2007	AF101	2007	AF699	2023	AM305	1102	AR21	1104	AR306(ORANGE)	2009	AT13	2007
ACY17-1	2007	AF102	2007	AF3570	2023	AM305A	1102	AR22	1104	AR306BLUE	2030	AT-14	2007
ACY-18	2007	AF105	2007	AF3590	2023	AM306	1102	AR-22(DIO)	1104	AR306ORANGE	2030	AT14	2007
ACY18	2007	AF-105A	2007	AF21490	2023	AM306A	1102	AR22(RECTIFIER)	1104	AR308(VIOLET)	2023	AT-15	2007
ACY18-1	2007	AF105A	2007	AF3527	2009	AM307	1102	AR-22(XSTR)	2020	AR313	2010	AT15	2007
ACY-19	2007	AF-106	2007	AFCS1170F	2023	AM307A	1102	AR23	1114	AR882	1104	AT16	2007
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ACY21	2007	AF109R	2007	AF71341	2023	AM425	1104	AR-25	2027	AS3C	1143	AT30N	2007
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ACY22	2007	AF112	2007	AFY11	2007	AM440	1104	AR25(ORANGE)	2010	AS4	1104	AT74	2007
ACY22-1	2007	AF113	2007	AFY12	2007	AM445	1104	AR25(WHITE)	2010	AS-5	1104	AT74S	2007
ACY-23	2007	AF114	2007	AFY14	2007	AM450	1104	AR27(GREEN)	2027	AS5	1104	AT100H	2007
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ACY23-V	2007	AF115	2007	AFY16	2007	AM620	1102	AR28	2020	AS11	1104	AT100N	2007
ACY23-VI	2007	AF115N	2007	AFY18	2007	AM620A	1102	AR28(RED)	2020	AS-14	1104	AT310	2010
ACY23V	2007	AF116	2007	AFY18C	2007	AM626	1102	AR28RED	2020	AS14	1104	AT311	2010
ACY23VI	2007	AF116N	2007	AFY18D	2007	AM626A	1102	AR30	2020	AS-15	1104	AT312	2010
ACY24	2007	AF117	2007	AFY18E	2007	AM632	1102	AR35	2020	AS15	1104	AT313	2010
ACY27	2007	AF117C	2007	AFY19	2007	AM632A	2007	AR37(GREEN)	2027	AS3867	2007	AT314	2010
ACY28	2007	AF117N	2007	AFY34	2007	AM3235	2041	AR37GREEN	2027	AS3868	2007	AT315	2010
ACY29	2007	AF118	2007	AFY37	2007	AM7104	2041	AR38	2020	AS4280	2007	AT316	2010
ACY30	2007	AF119	2007	AFY39	2007	AM7105	2041	AR38(RED)	2020	ASY-24	2007	AT318	2010
ACY31	2007	AF120	2007	AFY40	2007	AM7115	2041	AR					

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AT333	2023	AT476	2030	B1F9	1104	B4C5	1104	B7F9	1114	B56A	2007
AT335	2009	AT477	2030	B1G1	1104	B4C9	1104	B7G1	1114	B56B	2007
AT335A	2023	AT478	2030	B1G5	1104	B4D1	1104	B7G5	1114	B56C	2007
AT336	2009	AT479	2030	B1G9	1104	B4D5	1104	B7G9	1114	B57	2007
AT337	2009	AT490	2009	B1H	2016	B4D9	1104	B7H1	1114	B59	1104
AT338	2010	AT491	2009	B1H(DIODE)	1104	B4E1	1104	B7H5	1114	B60	2007
AT339	2030	AT492	2009	B1H(XSTR)	2016	B4E5	1104	B7H9	1114	B60A	2007
AT340	2016	AT493	2009	B1H1	1114	B4E9	1104	B7K1	1114	B60C300	1104
AT341	2016	AT494	2009	B1H5	1114	B4F1	1104	B7K5	1114	B61	2007
AT342	2016	AT495	2009	B1H9	1114	B4F5	1104	B7K9	1114	B65	2007
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AT383	2030	ATRF2	2007	B2	2010	B5A	2007	B22A	2007	B66X0040-003	562
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B274(SYLVANIA)	2030	B435-0	2027	B3548	2020	B170022	2041	B8-2	1104	BC148A	2009
B290	2007	B435-O	2027	B3550	2020	B170024	2041	B82A184	1104	BC-148B	2009
B291	2007	B435-R	2027	B3551	2020	B170025	2041	B86	1104	BC148B	2009
B292	2007	B435-Y	2027	B3577	2020	B1045494P1	1101	B8-6S	1104	BC-148C	2009
B292A	2007	B439	2007	B3578	2020	B7579500	1114	B810	1104	BC148C	2009
B293	2007	B439A	2007	B3580	2020	B8780010	2009	B871	2009	BC149	2009
B294	1104	B440	2007	B3584	2020	BAB-1A-21	2007	B8107	1104	BC149A	2009
B294(RECTIFIER)	1104	B443	2007	B3585	2020	BAG7	2009	B8-109	1104	BC149B	2009
B294(TRANSISTOR)	2007	B443A	2007	B3586	2020	BA71	2009	B8117	1104	BC149C	2009
B299	2007	B443B	2007	B3588	2020	BA-100	1104	B8127	1104	BC149G	2009
B302	2007	B444	2007	B3589	2020	BA100	11				

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
BC182K	2016	BC209B	2009	BC239-5	2009	BC281C-1	2023	BC337-16	2009	BC520C	2016
BC182KA	2009	BC209BL	2009	BC239-18	2009	BC282	2009	BC338	2009	BC521	2016
BC182KB	2009	BC209C	2009	BC239A	2016	BC283	2023	BC338-16	2009	BC521C	2016
BC182L	2009	BC209CL	2009	BC239B	2016	BC283-1	2023	BC338-40	2009	BC521D	2016
BC182LA	2009	BC210	2009	BC239C	2016	BC284	2009	BC340-6	2030	BC522	2016
BC183	2009	BC211	2030	BC250	2023	BC284A	2009	BC340-10	2030	BC522C	2016
BC183A	2009	BC212	2023	BC250-1	2023	BC284B	2009	BC340-16	2030	BC522D	2016
BC183B	2009	BC212-1	2023	BC250A	2023	BC285	2009	BC341-06	2030	BC522E	2016
BC183K	2016	BC212A	2023	BC250A-1	2023	BC286	2030	BC341-6	2030	BC523	2016
BC183KA	2016	BC212B	2023	BC250B	2023	BC288	2030	BC341-10	2030	BC523B	2016
BC183KB	2009	BC212K	2023	BC250B-1	2023	BC289	2009	BC350	2023	BC523C	2016
BC183KC	2009	BC212K-1	2023	BC250C	2023	BC289A	2009	BC350A	2023	BC526A	2023
BC183L	2016	BC212KA	2023	BC250C-1	2023	BC289B	2009	BC350B	2023	BC526B	2023
BC183LA	2009	BC212KA-1	2023	BC251	2023	BC290	2009	BC350L	2023	BC526C	2023
BC184	2009	BC212KB	2023	BC251A	2023	BC290B	2009	BC351	2023	BC532	2061
BC184B	2009	BC212KB-1	2023	BC251A-1	2023	BC290C	2009	BC351A	2023	BC533	2061
BC184K	2009	BC212L	2023	BC251B	2023	BC291	2023	BC351B	2023	BC535	2030
BC184KB	2009	BC212L-1	2023	BC251B-1	2023	BC291-1	2023	BC351L	2023	BC537	2030
BC184KC	2009	BC251A	2023	BC251C	2023	BC291A	2023	BC352	2023	BC538	2030
BC184L	2016	BC251A-1	2023	BC251C-1	2023	BC291A-1	2023	BC352A	2023	BC546	2016
BC185	2009	BC212LB	2023	BC252	2023	BC291D	2023	BC352B	2023	BC546A	2016
BC186	2023	BC212LB-1	2023	BC252-1	2023	BC291D-1	2023	BC352L	2023	BC546B	2016
BC187	2023	BC212VI	2023	BC252A	2023	BC292	2023	BC377	2009	BC547	2009
BC187-1	2023	BC212VI	2023	BC252A-1	2023	BC292A	2023	BC378	2009	BC547A	2009
BC188	2010	BC213	2023	BC252B	2023	BC292A-1	2023	BC381	2023	BC547B	2009
BC189	2010	BC213-1	2023	BC252B-1	2023	BC292D	2023	BC382	2009	BC547C	2009
BC190B	2009	BC213A	2023	BC252C	2023	BC292D-1	2023	BC382B	2009	BC547VI	2009
BC192	2009	BC213B	2023	BC252C-1	2023	BC295	2010	BC382C	2009	BC548	2009
BC192-1	2023	BC213K	2023	BC253	2023	BC297	2023	BC383	2009	BC548A	2016
BC194	2010	BC213K-1	2023	BC253-1	2023	BC297-7	2023	BC383B	2009	BC548B	2009
BC194B	2010	BC213KA	2023	BC253A	2023	BC299	2023	BC383C	2009	BC548B-1	2009
BC195	2010	BC213KA-1	2023	BC253A-1	2023	BC301	2030	BC384	2009	BC548C	2016
BC195CD	2010	BC213KB	2023	BC253B	2023	BC301-4	2030	BC384B	2009	BC548VI	2009
BC196	2023	BC213KB-1	2023	BC253B-1	2023	BC301-5	2030	BC384C	2016	BC549	2009
BC196-1	2023	BC213KC	2023	BC253C	2023	BC302-4	2030	BC385A	2016	BC549B	2016
BC196A	2023	BC213KC-1	2023	BC253C-1	2023	BC302-5	2030	BC385B	2016	BC549C	2016
BC196A-1	2023	BC213L	2023	BC254	2030	BC302-6	2030	BC386A	2016	BC556	2023
BC196B	2023	BC213L-1	2023	BC255	2030	BC303-6	2030	BC386B	2016	BC556A	2023
BC196B-1	2023	BC213LA	2023	BC256	2023	BC307	1104	BC395	2061	BC556VI	2023
BC196VI	2023	BC213LA-1	2023	BC256-1	2023	BC307	2023	BC400	2023	BC557	2023
BC196VI-1	2023	BC213LB	2023	BC256A	2023	BC307(ALGG)	2023	BC404	2023	BC557A	2023
BC196VI	2061	BC213LB-1	2023	BC256A-1	2023	BC307(PHIN)	2023	BC404VI	2023	BC557B	2023
BC197	2009	BC213LC	2023	BC256B	2023	BC307-5	2023	BC405	2023	BC557VI	2023
BC197A	2009	BC213LC-1	2023	BC256B-1	2023	BC307-18	2023	BC405A	2023	BC558	2023
BC197B	2009	BC214	2023	BC256C-1	2023	BC307A	2023	BC405B	2023	BC558A	2023
BC198	2009	BC214-1	2023	BC257	2023	BC307B	2023	BC406B	2023	BC558B	2023
BC198A	2009	BC214A	2023	BC257-1	2023	BC307C	2023	BC407	2009	BC558VI	2023
BC198B	2016	BC214B	2023	BC257VI	2023	BC307VI	2023	BC407A	2009	BC559	2023
BC198C	2009	BC214K	2023	BC258	2023	BC307VI	2023	BC407B	2009	BC559A	2023
BC199	2009	BC214K-1	2023	BC258-1	2023	BC307VI5	2023	BC408	2009	BC559B	2023
BC199B	2016	BC214KA	2023	BC258C	2023	BC307VII8	2023	BC408A	2016	BC560A	2023
BC199C	2009	BC214KA-1	2023	BC258VI	2023	BC308	2023	BC408B	2016	BC562	2009
BC200	2023	BC214KB	2023	BC259	2023	BC308(ALGG)	2023	BC408C	2016	BC582A	2009
BC200-1	2023	BC214KB-1	2023	BC259-1	2023	BC308-5	2023	BC409	2009	BC582B	2009
BC200G	2023	BC214KC	2023	BC260	2023	BC308-18	2023	BC409B	2009	BC583	2009
BC200R	2023	BC214KC-1	2023	BC260-1	2023	BC308A	2023	BC409C	2009	BC583A	2009
BC200Y	2023	BC214L	2023	BC260A	2023	BC308B	2023	BC413	2009	BC583B	2023
BC201	2023	BC214L-1	2023	BC260A-1	2023	BC308C	2023	BC413B	2009	BC582	2030
BC201-1	2023	BC214LA	2023	BC260B	2023	BC308VI	2023	BC413C	2009	BC737	2016
BC202	2023	BC214LA-1	2023	BC260B-1	2023	BC308VI5	2061	BC414	2009	BC738	2016
BC202-1	2023	BC214LB	2023	BC260C	2023	BC308VI8	2023	BC414B	2009	BC1072	2009
BC203	2023	BC214LB-1	2023	BC260C-1	2023	BC308VII8	2023	BC414C	2009	BC1082	2009
BC203-1	2023	BC214LC	2023	BC261	2023	BC309	2023	BC415-6	2023	BC1086	2009
BC204	2023	BC214LC-1	2023	BC261	2023	BC309(ALGG)	2023	BC415A	2023	BC1096	2009
BC204-1	2023	BC215A	2061	BC261A	2023	BC309(SIEG)	2023	BC415B	2023	BC1096	2009
BC204A	2023	BC215B	2061	BC261A-1	2023	BC309-5	2023	BC416-6	2023	BC1478	2009
BC204A-1	2023	BC216	2030	BC261B	2023	BC309-18	2023	BC416A	2023	BC1690	2009
BC204B	2023	BC216A	2030	BC261B-1	2023	BC309A	2023	BC416B	2023	BC6500	2010
BC204B-1	2023	BC216B	2030	BC261C	2023	BC309B	2023	BC417	2023	BCM1002-1	2007
BC204V	2023	BC220	2009	BC261C-1	2023	BC309C	2023	BC418	2023	BCM1002-2	2010
BC204V-1	2023	BC221	2023	BC262	2023	BC310	2030	BC418A	2023	BCM1002-4	2007
BC204VI	2023	BC221-1	2023	BC262-1	2023	BC312	2030	BC419	2023	BCM1002-5	2007
BC204VI-1	2023	BC222	2009	BC262A	2023	BC315	2023	BC419A	2023	BCW31	2010
BC205	2023	BC223A	2009	BC262A-1	2023	BC317	2009	BC429	2030	BCW31R	2010
BC205-1	2023	BC223B	2009	BC262B	2023	BC317A	2009	BC431	2030	BCW32	2010
BC205A	2023	BC224	2023	BC262B-1	2023	BC317B	2009	BC431B	2009	BCW32R	2010
BC205A-1	2023	BC225	2023	BC262C	2023	BC318	2009	BC432	2023	BCW34	2009
BC205B	2023	BC225-1	2023	BC262C-1	2023	BC318A	2009	BC442	2010	BCW35	2023
BC205B-1	2023	BC231A	2023	BC263	2023	BC318B	2009	BC446	2023	BCW36	2009
BC205C	2023	BC231B	2023	BC263A	2023	BC318C	2009	BC446-5	2023	BCW37	2023
BC205V	2023	BC232A	2009	BC263A-1	2023	BC319	2009	BC446-18	2023	BCW37A	2023
BC205V-1	2023	BC232B	2009	BC263B	2023	BC319B	2009	BC452	2009	BCW44	2030
BC205VI	2023	BC233A	2009	BC263B-1	2023	BC319C	2009	BC455	2009	BCW45	2023
BC205VI-1	2023	BC234	2061	BC263C	2023	BC320	2023	BC456	2058	BCW46	2023
BC205VI	2023	BC237	2009	BC263C-1	2023	BC320A	2023	BC477VI	2061	BCW47	2030
BC206	2023	BC237(PHIN)	2016	BC264A	2023	BC320C	2062	BC478	2023	BCW48	2030
BC206-1	2023	BC237-18	2009	BC266	2023	BC321	2023	BC478A	2023	BCW48A	2030
BC206A	2023	BC237A	2009	BC266-1	2023	BC321A	2023	BC478B	2023	BCW49	2030
BC206B	2023	BC237A5	2009	BC266A	2023	BC321B	2023	BC479	2023	BCW56	2023
BC206B-1	2023	BC237A18	2009	BC266B	2023	BC321C	2023	BC479B	2023	BCW56A	2023
BC206C	2023	BC237B	2009	BC267	2009	BC322	2023	BC507A	2009	BCW57	2023
BC207	1104	BC238	2009	BC268	2009	BC322B	2023	BC507B	2009	BCW57A	2023
BC207A	2009	BC238(PHIN)	2016	BC269	2009	BC322C	2023	BC508A	2009	BCW58	2023
BC207B	2009	BC238-5	2009	BC270	2009	BC324	2030	BC508B	2009	BCW58A	2023
BC207BL	2009	BC238-16	2023	BC271	2016	BC325	2023	BC508C	2009	BCW58B	2023
BC208	2009	BC238-18	2009	BC280	2009	BC325A	2023	BC509B	2009	BCW59	2023
BC208A	2009	BC238A	2009	BC280A	2009	BC326	2023	BC509C	2009	BCW59A	2023
BC208A-1	2009	BC238A5	2009	BC280B	2009	BC326A	2023	BC510B	2009	BCW59B	2023
BC208B	2009	BC238A18	2009	BC280C	2009	BC327	2023	BC510C	2010	BCW60A	2009
BC208B-1	2009	BC238B	2009	BC281	2023	BC327(25)	2023	BC512A	2023	BCW60AA	2009
BC208BL	2009	BC238B5	2009	BC281-1	2023	BC327-5	2023	BC512A	2023	BCW60AB	2009
BC208C	2009	BC238B18	2009	BC281A	2023	BC327-18	2023	BC513	2023	BCW60AC</	

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BCY58	2023	BD107B	2020	BDX93	2041	BF225	2058	BF367	2058	BFS40A	2023
BCY58B	2009	BD109	2020	BDX95	2041	BF225J	2009	BF368	2009	BFS41	2023
BCY58C	2009	BD109-6	2020	BDY-10	2041	BF-226	2009	BF369	2009	BFS42	2009
BCY58D	2009	BD111	2041	BDY10	2041	BF226	2016	BF379	2016	BFS42A	2009
BCY58VII	2009	BD113	2058	BDY11	2041	BF227	2016	BF384	2010	BFS42B	2009
BCY58VIII	2009	BD124	2020	BDY12	2020	BF228	2061	BF385	2010	BFS42C	2009
BCY59	2009	BD-127	1104	BDY13	2020	BF229	2010	BF387	2030	BFS43	2009
BCY59A	2009	BD130	2041	BDY17	2020	BF230	2010	BF411	2010	BFS43A	2009
BCY59B	2009	BD-131	2020	BDY20	2041	BF232	2016	BF412	2016	BFS43B	2009
BCY59C	2009	BD141	2041	BDY23	2041	BF233-2	2058	BF414	2023	BFS43C	2009
BCY59D	2009	BD142	2041	BDY23A	2041	BF233-3	2058	BF422	2061	BFS55A	2016
BCY59VII	2009	BD162	2020	BDY23B	2041	BF233-4	2010	BF440	2023	BFS58	2010
BCY59VIII	2009	BD163	2020	BDY34	2020	BF233-5	2016	BF441	2023	BFS62	2016
BCY65	2030	BD181	2041	BDY38	2041	BF233-6	2058	BF450	2023	BFS69	2023
BCY66	2030	BD182	2041	BDY39	2041	BF234	2058	BF451	2023	BFS96	2023
BCY69	2009	BD183ELK	2041	BDY53	2041	BF235	2010	BF469	2010	BFS97	2023
BCY70	2023	BD201	2020	BDY54	2041	BF236	2010	BF494	2058	BFT20	2023
BCY70A	2023	BD203	2020	BDY56	2041	BF237	2009	BF495	2058	BFT21	2023
BCY71	2023	BD220	2020	BDY63	2041	BF238	2009	BF497	2016	BFT22	2023
BCY71A	2023	BD221	2020	BDY69	2043	BF240	2058	BF506	2023	BFT29	2030
BCY72	2023	BD222	2020	BDY73	2041	BF240B	2058	BF516	2016	BFT30	2030
BCY72A	2023	BD223	2027	BDY82	2027	BF241	2058	BF540	2023	BFT31	2030
BCY72VII	2023	BD224	2027	BDY83	2027	BF241C	2058	BF541	2023	BFT39	2030
BCY72VII	2023	BD225	2027	BDY90(AUDIO)	2041	BF241D	2058	BF542	2023	BFT40	2030
BCY78	2023	BD231A	2020	BDY91(AUDIO)	2041	BF243	2023	BF594	2058	BFT41	2030
BCY79	2023	BD233G	2020	BDY92(AUDIO)	2041	BF248	2009	BF595	2058	BFT54	2030
BCY79VII	2023	BD235G	2020	BDY93/01	2055	BF249	2023	BF596	2009	BFT55	2009
BCY84A	2009	BD237G	2020	BE6	2007	BF250	2009	BF597	2016	BFT70	2009
BCY85	2030	BD239	2020	BE6A	2007	BF251	2016	BF-832	2023	BFT71	2023
BCY86	2030	BD239A	2020	BE-66	2009	BF252	2016	BF811	2009	BFTV10	2009
BCY87	2010	BD240	2027	BE71	2030	BF253	2010	BF816	2009	BFTV11	2009
BCY88	2010	BD240A	2027	BE107	1104	BF254	2058	BF818	2030	BFTV12	2009
BCY89	2010	BD241	2020	BE117	1104	BF254B	2016	BF819	2030	BFTV20	2023
BCY90	2023	BD242	2027	BE127	1104	BF-255	2009	BF820	2030	BFTV21	2023
BCY90A	2023	BD242A	2020	BE173	2010	BF255	2058	BF822	2030	BFTV22	2023
BCY90B	2023	BD242B	2027	BF1	2007	BF255C	2016	BF825	2016	BFTV25	2023
BCY90B-1	2023	BD243	2020	B-F1A	2007	BF255D	2016	BF826	2009	BFTV26	2023
BCY91	2023	BD243B	2020	BF1A	2007	BF260	2016	BF828	2010	BFTV27	2016
BCY91A	2023	BD244	2027	BF2	2007	BF261	2016	BF836	2030	BFTV28	2016
BCY91B	2023	BD244A	2027	BF65	2023	BF262	2010	BF840T05	2030	BFTV29	2023
BCY91B-1	2023	BD244B	2027	BF71	2009	BF263	2010	BF841T05	2030	BFTV30	2023
BCY92	2023	BD271	2027	BF-115	2010	BF264	2010	BF851	2030	BFTV33	2023
BCY92A	2023	BD272	2027	BF115	2009	BF270	2016	BF852	2030	BFTV34	2023
BCY92B	2023	BD273	2020	BF121	2010	BF271	2016	BF877	2030	BFTV37	2016
BCY92B-1	2023	BD275	2020	BF123	2010	BF273	2016	BF878	2030	BFTV38	2016
BCY93	2023	BD278	2020	BF125	2010	BF273C	2016	BF811	2016	BFTV40	2009
BCY93A	2023	BD291	2020	BF127	2010	BF273D	2016	BF813E	2010	BFTV41	2009
BCY93B	2023	BD293	2020	BF155	2016	BF274	2016	BF813F	2010	BFTV42	2009
BCY93B-1	2023	BD311	2041	BF161	2016	BF274B	2016	BF813G	2010	BFTV43	2009
BCY94	2023	BD312	2043	BF162	2010	BF274C	2016	BF814A	2023	BFTV44	2009
BCY94A	2023	BD313	2041	BF163	2010	BF279	2016	BF814B	2023	BFTV45	2009
BCY94B	2023	BD433	2020	BF164	2010	BF287	2016	BF814C	2023	BFTV46	2009
BCY94B-1	2023	BD434	2027	BF165	2010	BF288	2016	BF814D	2023	BFTV47	2009
BCY95	2023	BD435	2020	BF166	2016	BF290	2016	BF814E	2010	BFTV49	2009
BCY95A	2023	BD436	2027	BF167	2016	BF291	2009	BF814F	2010	BFTV50	2009
BCY95B	2023	BD437	2020	BF168	2016	BF291A	2009	BF814G	2010	BFTV51	2009
BCY95B-1	2023	BD438	2027	BF169	2016	BF291B	2009	BF815E	2010	BFTV53	2009
BCY98	2023	BD439	2020	BF173	2016	BF293	2009	BF815F	2010	BFTV54	2009
BCY98A	2023	BD440	2027	BF173A	2010	BF293A	2009	BF815G	2010	BFTV55	2009
BCY98B	2023	BD441	2020	BF175	2016	BF293D	2009	BF816	2023	BFTV59	2016
BCY98B-1	2023	BD553	2020	BF176	2010	BF297	2061	BF816A	2023	BFTV60	2016
BCY443	2030	BD534	2027	BF177	2030	BF298	2016	BF816B	2023	BFTV61	2016
BCY501	2009	BD535	2020	BF-180	2009	BF302	2061	BF816C	2023	BFTV62	2016
BCY511	2009	BD536	2027	BF180	2016	BF304	2016	BF816D	2023	BFTV60	2016
BCY771X	2023	BD537	2020	BF181	2016	BF306	2016	BF816E	2010	BFTV82	2023
BCZ10	2023	BD575	2020	BF182	2016	BF308	2058	BF816F	2010	BFTV82A	2023
BCZ10A	2023	BD577	2020	BF183	2016	BF310	2058	BF816G	2010	BFTV82B	2023
BCZ10B	2023	BD579	2020	BF183A	2009	BF311	2058	BF817	2010	BFTV82C	2023
BCZ10C	2023	BD585	2020	BF184	2016	BF314	2058	BF817R	2010	BFTV83	2010
BCZ11	2023	BD587	2020	BF185	2016	BF321A	2009	BF818	2010	BFTV83A	2010
BCZ11A	2023	BD589	2020	BF187	2010	BF321B	2009	BF818CA	2016	BFTV83B	2016
BCZ12	2023	BD591	2020	BF188	2010	BF321C	2009	BF818R	2010	BFTV83C	2010
BCZ12A	2023	BD596	2027	BF189	2009	BF321D	2009	BF819	2010	BFTV85	2009
BCZ12B	2023	BD633	2020	BF194	2058	BF321E	2009	BF819CB	2009	BFTV85A	2009
BCZ12C	2023	BD635	2020	BF194A	2010	BF321F	2009	BF819R	2010	BFTV85B	2009
BCZ13	2023	BD643	2068	BF194B	2010	BF322	2030	BF820	2010	BFTV85C	2009
BCZ13A	2023	BD645	2068	BF195	2058	BF329	2010	BF820R	2010	BFTV85D	2010
BCZ13B	2023	BD733	2020	BF195C	2010	BF332	2010	BF826	2023	BFTV85E	2010
BCZ13C	2023	BD735	2020	BF195D	2010	BF333	2010	BF826A	2023	BFTV85F	2010
BCZ13D	2023	BD737	2020	BF196	2058	BF333C	2010	BF826B	2023	BFTV85G	2010
BCZ13E	2023	BD0A	1171	BF197	2010	BF333D	2010	BF826C	2023	BFTV86	2023
BCZ13F	2023	BDX10	2041	BF198	2058	BF334	2010	BF826D	2023	BFTV86A	2023
BCZ13G	2023	BDX11	2041	BF199	2058	BF335	2010	BF826E	2023	BFTV86B	2023
BCZ13H	2023	BDX18	2043	BF200	2016	BF340	2023	BF826F	2023	BFTV86C	2023
BCZ14	2023	BDX18N	2043	BF-200(PENNCREST)	2016	BF340A	2023	BF826G	2023	BFTV87	2009
BCZ14A	2023	BDX24	2041			BF340B	2023	BF827E	2016	BFTV88	2009
BCZ14B	2023	BDX25	2020	BF200(ZENITH)	2010	BF340C	2023	BF827F	2016	BFTV88A	2009
BCZ14C	2023	BDX27	2027	BF206	2016	BF340D	2023	BF827G	2016	BFTV88B	2009
BCZ14D	2023	BDX27-6	2027	BF207	2016	BF341A	2023	BF829	2030	BFTV88C	2009
BCZ14E	2023	BDX27-10	2027	BF208	2016	BF341B	2023	BF831	2023	BFTV89	2016
BCZ14F	2023	BDX28	2027	BF209	2016	BF341C	2023	BF831P	2009	BFTV89A	2016
BD0A	1104	BDX28-6	2027	BF212	2016	BF341D	2023	BF832	2023	BFTV90	2023
BD-1A	1104	BDX28-10	2027	BF213	2016	BF342	2023	BF832P	2023	BFTV21	2010
BD2	1123	BDX29	2020	BF-214	2009	BF342A	2023	BF833	2023	BFTV22	2023
BD3A-184	1171	BDX29-4	2020	BF214	2016	BF342B	2023	BF833P	2023	BFTV25	2009
BD-3A184	1171	BDX29-10	2020	BF-215	2009	BF342C	2023	BF834P	2023	BFTV31	2023
BD4	1123	BDX30	2020	BF215	2016	BF342D	2023	BF836	2030	BFTV32	2009
BD6	1123	BDX30-6	2020	BF216	2010	BF343	2023	BF836A	2010	BFTV41	2016
BD7	1123	BDX30-10	2020	BF217	2010	BF344	2016	BF836B	2009	BFTV46	2009
BD71	2010	BDX70	2020	BF218	2010	BF345	2016	BF836C	2009	BFTV57	2061
BD106	2020	BDX71	2020	BF219	2010	BF357	2010	BF837	2023	BFTV58	2061
BD106A	2020	BDX72	2020	BF220	2010	BF362	2016	BF837A	2023	BFTV59	2009
BD106B	2020	BDX73	2020	BF222	2016	BF363	2016	BF838	2009	BFTV60	2009
BD-107	1104	BDX74	2020	BF223	2010	BF364	2058	BF838A	2009	BFTV63	2016
BD-107(RECT.)	1104	BDX75	2020	BF224	2058	BF365	2058	BF839	2009	BFTV64	2010
BD107A	2020	BDX91	2041	BF224J	2009	BF366	2030	BF840	2023	BFTV68	2009

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BFY67	2030	BLV48	2041	BSV89	2009	BSX52	2009	BSY89	2009	BY156	1114
BFY67A	2030	BLV61	2030	BSV90	2009	BSX52A	2009	BSY90	2030	BY164	1171
BFY67C	2030	BLV63	2020	BSV91	2009	BSX53	2009	BSY91	2009	BY172	1114
BFY68	2030	BLV79	2020	BSV92	2058	BSX54	2009	BSY92	2030	BY173	1114
BFY68A	2030	BLV88	2020	BSV96	2023	BSX59	2030	BSY93	2009	BY179	1173
BFY69	2010	BLV89	2020	BSV97	2023	BSX60	2030	BSY-95	2010	BY201	1144
BFY69A	2010	BLV92	2020	BSV98	2023	BSX61	2030	BSY95	2009	BY206	1144
BFY69B	2016	BMT1991	2023	BSW10	2030	BSX62	2030	BSY95A	2009	BY401	1104
BFY70	2030	BMT2303	2023	BSW11	2009	BSX62B	2030	BSY165	2009	BY402	1104
BFY72	2009	BMT2411	2023	BSW12	2009	BSX62C	2009	BSY168	2009	BY403	1104
BFY73	2009	BMT2412	2023	BSW13	2016	BSX62D	2030	BT67	2009	BY404	1104
BFY74	2009	BN-66	2009	BSW19	2009	BSX63B	2030	BT71	2009	BY405	1104
BFY75	2009	BN7133	2041	BSW20	2023	BSX63C	2030	BT82	2023	BY406	1104
BFY76	2009	BN7214	2041	BSW21	2023	BSX66	2009	BT-94	2009	BY407	1104
BFY77	2009	BN7517	2009	BSW-21A	2023	BSX67	2009	BT100A-300R	1020	BY1001	1114
BFY78	2010	BN7518	2009	BSW21A	2023	BSX68	2009	BT832	2023	BY1002	1114
BFY79	2016	BN7551	563	BSW-22	2023	BSX69	2009	BT929	2016	BY1101	1114
BFY80	2030	BO-71	2010	BSW22	2023	BSX70	2030	B-T-1000-139	2010	BY1102	1114
BFY85	2009	BO8875/2	2023	BSW-22A	2023	BSX71	2030	B-T1000-139	2010	BY1200	1114
BFY86	2009	BO316415	1759	BSW22A	2023	BSX72	2030	BTB1000	1114	BY1201	1114
BFY87	2016	BO319200	705	BSW-24	2023	BSX75	2009	BTM-50	1141	BY1202	1114
BFY87A	2016	BO470016	2401	BSW24	2030	BSX76	2009	BTM50	1104	BYX10	1114
BFY88	2016	BO470116	2411	BSW26	2030	BSX77	2009	BTM1000	1114	BYX12/400	1114
BFY90(SIEG)	2009	BP67	2009	BSW27	2030	BSX78	2009	BTX-068	2016	BYX13/600	1114
BFY90B	2010	BP5263	2007	BSW28	2030	BSX79	2009	BTX068	2009	BYX22/200	1104
BFY94	2023	BPS-S-50	1103	BSW29	2030	BSX79A	2009	BTX-070	2009	BYX22/400	1104
BFY99	2030	BQ-94	2009	BSW32	2059	BSX79B	2009	BTX070	2009	BYX22/800	1114
BFY167	2016	BR-1	1171	BSW33	2009	BSX80	2009	BTX-084	2023	BYX26-60	1114
BFY371	2009	BR42	1104	BSW34	2009	BSX81	2009	BTX-094	2009	BYX30/150	1104
BFY391	2009	BR44	1104	BSW35	2030	BSX81A	2009	BTX-095	2009	BYX36/150	1104
BG-66	2009	BR44	1104	BSW39-6	2030	BSX87	2009	BTX-2367B	2009	BYX36/300	1104
BG-71	2009	BR47	1104	BSW39-10	2030	BSX88	2009	BTX2367B	2009	BYX36/600	1114
BG-94	2009	BR48	1104	BSW39-16	2030	BSX89	2009	BU67	2009	BYX36-150	1114
BG-55345	019	BR48	1104	BSW41	2009	BSX90	2009	BU71	2009	BYX36-300	1104
BH4R1	1104	BR-66	2009	BSW42	2009	BSX91	2009	BU105	2055	BYX36-600	1104
BH4R6	1114	BR67	2009	BSW42A	2009	BSX92	2010	BU105-02	2055	BYX38	1114
BH71	2009	BR-82	2023	BSW43	2009	BSX93	2010	BU108	2055	BYX45-600R	1114
BH-DX0038CEZZ	1104	BR-101B	2020	BSW43A	2009	BSX94A	2009	BU115	2055	BYX45-800R	1114
BI71	2009	BR101B	2020	BSW-44	2023	BSX95	2030	BU204	2055	BYX45-1000R	1114
BI7201	2009	BR-832	2023	BSW-44A	2023	BSX96	2030	BU205	2055	BYX58-50	1102
BNW	2009	BR51400-1	1104	BSW-44A	2023	BSX97	2009	BU206	2055	BYX58-100	1102
BJ1A	2023	BR51401-2	1104	BSW44A	2023	BSY10	2009	BU207	2055	BYX58-200	1102
BJ1B	2023	BRC-116	2041	BSW-45	2023	BSY11	2009	BU209	2055	BYX60-50	1104
BJ1C	2023	BRC5296	2020	BSW45	2023	BSY17	2009	BU225	2055	BYX60-100	1104
BJ2	2023	BRC-5496	2020	BSW-45A	2023	BSY18	2009	BU500	2055	BYX60-200	1104
BJ2A	2023	BRN-SPEC-24-12	1103	BSW45A	2023	BSY19	2009	BUC-97704-2	2009	BYX60-300	1104
BJ2B	2023	BS08H	1001	BSW49	2030	BSY20	2009	BUC97704-2	2009	BYX60-400	1104
BJ2C	2023	BS1	1104	BSW51	2009	BSY21	2009	BUY10	2041	BYX60-500	1104
BJ2D	2023	BS2	1104	BSW52	2009	BSY22	2010	BUY11	2041	BYX60-600	1104
BJ3	2023	BS-66	2009	BSW53	2009	BSY23	2010	BUY24	2020	BYX60-700	1114
BJ3A	2023	BS67	2009	BSW58	2009	BSY24	2009	BUY44	2041	BYX55009	1114
BJ3B	2023	BS-94	2009	BSW65	2030	BSY25	2009	BUV25	1104	BYX31	1104
BJ4	2023	BS475	2009	BSW66	2030	BSY26	2009	BUV67	2009	BYX31	1104
BJ4A	2023	BS9011G	2009	BSW-72	2023	BSY27	2009	BUV71	2009	BYX32	1104
BJ4B	2023	BSA01	1102	BSW72	2023	BSY28	2009	BUV67	2009	BYX32	1104
BJ4C	2023	BSA02	1102	BSW-73	2023	BSY29	2009	BUV71	2009	BYX33	1104
BJ4D	2023	BSA11	1102	BSW73	2023	BSY34	2009	BUV90	562	BYX34	1104
BJ5	2023	BS-B1	1171	BSW-74	2023	BSY38	2009	BUV67	2009	BYX35	1104
BJ5A	2023	BS-84	1173	BSW74	2023	BSY39	2009	BUV71	2009	BYX35	1104
BJ5B	2023	BS510	2009	BSW-75	2023	BSY-40	2023	BUV909	562	BYX36	1104
BJ6	2023	BS521	2009	BSW75	2023	BSY40	2023	BUV910	1114	BYX37	1114
BJ6A	2023	BS522	2009	BSW81	2023	BSY-41	2023	BUV963	562	BYX60	1114
BJ6B	2023	BS526	2009	BSW82	2009	BSY41	2023	BUV963	1114	BYX61	1114
BJ6C	2023	BS528	2030	BSW83	2009	BSY44	2030	BUV967	2009	BYX61	1104
BJ6D	2023	BS529	2030	BSW84	2009	BSY45	2030	BUV71	2009	BYX61	1114
BJ7	2023	BS538	2061	BSW85	2009	BSY46	2030	BUV100	1114	BZ-050	565
BJ7A	2023	BS540	2030	BSW88	2009	BSY48	2009	BUV100S	1114	BZ050	565
BJ7B	2023	BS541	2030	BSW88A	2009	BSY49	2009	BUV101	1104	BZ-061	561
BJ7C	2023	BSV21	2023	BSW88B	2009	BSY51	2030	BUV102	1104	BZ-063	561
BJ7D	2023	BSV21A	2023	BSW89	2009	BSY52	2030	BUV104	1114	BZ090	562
BJ8	2023	BSV35	2010	BSW89A	2009	BSY53	2030	BUV105	1114	BZ-090(DIODE)	1123
BJ8A	2023	BSV35A	2009	BSW89B	2009	BSY54	2030	BUV106	1104	BZ090.129	562
BJ8B	2023	BSV35B	2010	BSW92	2009	BSY55	2030	BUV107	1104	BZ-092	562
BJ8C	2023	BSV35C	2010	BSX12	2010	BSY56	2030	BUV108	1114	BZ-094	562
BJ8D	2023	BSV35D	2010	BSX12A	2030	BSY58	2009	BUV109	1114	BZ094	562
BJ9	2023	BSV40	2009	BSX19	2009	BSY59	2009	BUV111	1104	BZ-0900	562
BJ9A	2023	BSV41	2009	BSX21	2061	BSY61	2009	BUV112	1104	BZ-0901	562
BJ9B	2023	BSV42	2023	BSX23	2030	BSY-62	2010	BUV113	1104	BZ/88/C4V7	565
BJ9C	2023	BSV43A	2023	BSX24	2009	BSY62	2009	BUV114	1104	BZ1-9	562
BJ9D	2023	BSV44A	2023	BSX25	2009	BSY62A	2009	BUV115	1104	BZ1-90	562
BJ10	2023	BSV45A	2023	BSX26	2010	BSY63	2009	BUV116	1104	BZ6.1	565
BJ11	2023	BSV46	2023	BSX27	2010	BSY68	2061	BUV117	1104	BZ6.2	561
BJ11A	2023	BSV47A	2023	BSX30	2009	BSY70	2009	BUV118	1114	BZ9.1	562
BJ11B	2023	BSV48A	2023	BSX33	2030	BSY71	2030	BUV119	1114	BZ12	563
BJ12	2023	BSV49A	2023	BSX35	2010	BSY-72	2010	BY121	1104	BZ67	2009
BJ12B	2023	BSV51	2030	BSX36	2023	BSY72	2009	BY122	1171	BZ71	2009
BJ12C	2023	BSV52	2010	BSX38	2009	BSY-73	2010	BY124	1104	BZ-120	563
BJ13	2023	BSV52R	2010	BSX38A	2009	BSY73	2009	BY125	1104	BZ120	563
BJ13A	2023	BSV53	2009	BSX38B	2009	BSY-74	2010	BY126	1104	BZ-145	564
BJ13B	2023	BSV53P	2010	BSX44	2009	BSY74	2009	BY126/50	1114	BZ-150	564
BJ14	2023	BSV54	2009	BSX45-6	2030	BSY75	2009	BY126/100	1114	BZ150	564
BJ14A	2023	BSV54P	2010	BSX45-10	2030	BSY76	2009	BY126/200	1114	BZ1021V4	1102
BJ15	2023	BSV55	2009	BSX45-10	2030	BSY77	2030	BY126/300	1114	BZ10	561
BJ56	2023	BSV55A	2023	BSX45-16	2030	BSY78	2030	BY126/400	1114	BZ14	562
BJ160	2023	BSV55AP	2023	BSX46	2030	BSY79	2030	BY127	2061	BZX17	563
BJ161	2023	BSV55P	2023	BSX46-6	2030	BSY-80	2010	BY127/500	1114	BZ-X19	564
BJ161A	2023	BSV59	2009	BSX46-10	2030	BSY80	2009	BY127/600	1114	BZX19	564
BJ161B	2023	BSV65FA	2009	BSX46-16	2030	BSY81	2030	BY127/700	1114	BZX29C5V1	565
BJ161C	2023	BSV65FB	2009	BSX47	2030	BSY82	2030	BY128	1114	BZX29C6V2	565
BLY10	2041	BSV69	2030	BSX47-6	2030	BSY83	2030	BY129	1114	BZX29C9V1	562
BLY11	2041	BSV77	2016	BSX47-10	2030	BSY84	2030	BY130	1104	BZX29C12	563
BLY21	2020	BSV84	2030	BSX48	2009	BSY85	2030	BY134	1104	BZX29C15	564
BLY27	2020	BSV86	2009	BSX49	2009	BSY86	2030	BY135	1104	BZX46C5V1	565
BLY36	2020	BSV87	2009	BSX51	2009	BSY87	2030	BY141	1104	BZX46C6V2	561
BLY47	2041	BSV88	2009	BSX51A	2009	BSY88	2030	BY153	1104	BZX46C9V1	562

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C19	2030	C106Q3	1067	C191	2009	C318(JAPAN)	2009	C380A-R(TV)	2009	C458BK	2059	C511B	1067
C20	2030	C106Q4	1067	C192	2009	C318A	2009	C380ATV	2009	C458BL	2009	C511C	1020
C21	2041	C106Y	1067	C193	2009	C318A(JAPAN)	2009	C380AY	2009	C458BLG	2059	C511F	1067
C22	2030	C106Y1	1067	C194	2009	C321	2009	C380D	2009	C458C	2009	C511G	1067
C23	2030	C106Y2	1067	C195	2009	C321H	2009	C380R	2009	C458CLG	2009	C511H	1020
C23H12B	1104	C106Y3	1067	C196	2009	C321HA	2009	C380R/4454C	2058	C458CM	2009	C511U	1067
C24	2030	C106Y4	1067	C197	2009	C321HB	2009	C380Y	2009	C458D	2009	C516	2030
C26	2009	C107A	1067	C199	2009	C321HC	2009	C381	2010	C458G	2009	C520(TRANSISTOR)	2041
C27	2009	C107A1	1067	C200(TRANSISTOR)	2009	C323	2009	C381-0	2010	C458GLB	2009	C529	2009
C28	2009	C107A2	1067	C201(JAPAN)	2009	C324	2009	C381-O	2010	C458K	2009	C529A	2009
C29	2009	C107A3	1067	C202	2007	C324A	2009	C381-R	2010	C458KA	2009	C535	2010
C30	2030	C107B	1067	C202(JAPAN)	2009	C324H	2009	C381BN	2010	C458KB	2009	C535A	2010
C31	2009	C107B1	1067	C203	2009	C324HA	2009	C381R	2010	C458KC	2009	C535B	2010
C32	2009	C107B2	1067	C204	2009	C325E	2020	C383	2009	C458KD	2009	C535C	2010
C32A	2030	C107B3	1067	C205	2009	C333H	2009	C383G	2009	C458L	2009	C535G	2010
C33	2016	C107B4	1067	C206	2016	C333HA	2009	C383T	2009	C458LB	2009	C536	2016
C37	2009	C107C	1020	C208	2016	C333HB	2009	C383W	2009	C458LG	2009	C536A	2016
C37(TRANSISTOR)	2009	C107C1	1020	C210	2030	C333HC	2009	C383Y	2009	C458LG(B)	2009	C536AG	2016
C38	2009	C107C2	1020	C211	2030	C335	2009	C384	2010	C458LGA	2009	C536B	2016
C38(TRANSISTOR)	2009	C107C3	1020	C212	2030	C337B	2009	C384-O	2010	C458LGB	2009	C536C	2016
C39(TRANSISTOR)	2010	C107C4	1020	C216	2030	C348	2009	C384Y	2010	C458LGBM	2009	C536D	2059
C39-207	2009	C107D	1020	C217	2030	C350(TRANSISTOR)	2009	C385(TRANSISTOR)	2010	C458LGC	2009	C536DK	2016
C39A	2010	C107D1	1020	C218	2030	C350H	2009	C385A	2010	C458LDG	2009	C536E	2059
C40	2010	C107D2	1020	C218A	2030	C351	2010	C386	2010	C458LGO	2009	C536ED	2016
C45	2009	C107D3	1020	C220	2030	C351(FA)	2010	C386A-0(TV)	2010	C458LGS	2009	C536EH	2016
C46	2030	C107D4	1020	C221	2030	C352	2009	C387(TRANSISTOR)	2010	C458M	2009	C536EJ	2016
C47	2030	C107F	1067	C222	2030	C352(JAPAN)	2009	C387A(FA-3)	2010	C458P	2009	C536EN	2016
C48	2030	C107F1	1067	C223(TRANSISTOR)	2030	C352A	2009	C387G	2010	C458RGS	2009	C536ER	2016
C48C	2030	C107F2	1067	C226	2030	C352A(JAPAN)	2030	C387G(TRANSISTOR)	2010	C458TOK	2009	C536ET	2016
C49Y	2030	C107F3	1067	C227	2030	C353	2030		2010	C458VVC	2009	C536EZ	2016
C51	2030	C107F4	1067	C228	2030	C353A	2030	C388	2009	C459	2009	C536F	2016
C52(TRANSISTOR)	2009	C107Q	1067	C229	2030	C356	2009	C388(TRANSISTOR)	2059	C459B	2009	C536F1	2016
C53	2009	C107Q1	1067	C230	2009	C360	2009	C388A	2009	C459D	2009	C536F2	2016
C54	2009	C107Q2	1067	C231	2009	C360D	2009	C388ATV	2009	C460	2009	C536FC	2016
C55	2009	C107Q3	1067	C232	2009	C361	2059	C389	2016	C460(A)	2009	C536FP	2016
C56	2010	C107Q4	1067	C233	2009	C362	2059	C389-0	2016	C460(B)	2009	C536FS	2016
C60(DIODE)	1123	C107Y	1067	C236	2030	C363	2009	C389R	2016	C460A	2009	C536FS6	2016
C61	2030	C107Y1	1067	C237	2009	C366	2009	C390(TRANSISTOR)	2016	C460B	2009	C536FZ	2016
C62(TRANSISTOR)	2009	C107Y2	1067	C238	2009	C367	2009	C394	2009	C460C	2009	C536G	2016
C63	2009	C107Y3	1067	C239	2009	C368	2016	C394(TRANSISTOR)	2058	C460D	2009	C536GF	2016
C63(JAPAN)	2010	C107Y4	1067	C240	2041	C368BL	2016	C394-0	2009	C460G	2009	C536GK	2016
C64	2030	C108	2030	C241	2041	C368GR	2016	C394-0	2009	C460GB	2009	C536GT	2016
C66-P11111-0001	2009	C109	2030	C242	2041	C368V	2016	C394GR	2009	C460H	2009	C536GV	2016
C66-P11110-00001	2009	C109A	2030	C243	2041	C369	2016	C394R	2009	C460K	2009	C536GY	2016
C67	2009	C111	2009	C247	2030	C369BL	2016	C394W	2009	C460L	2009	C536H	2016
C68	2009	C111B	2010	C248	2009	C369G	2016	C394Y	2009	C461	2009	C536W	2016
C73	2007	C111E	2009	C249	2030	C369G-BL	2016	C395	2009	C461A	2009	C537	2059
C74	2009	C112(JAPAN)	2030	C250	2009	C369GBL	2016	C395A	2009	C461B	2009	C537(F)	2016
C75	2007	C113	2030	C251	2016	C369G-GR	2016	C395R	2009	C461C	2009	C537(G)	2016
C76	2007	C114	2030	C251A	2016	C369GGR	2016	C397(TRANSISTOR)	2010	C461E	2009	C537-01	2059
C79	2010	C115	2030	C252	2016	C369GR	2016	C398(TRANSISTOR)	2016	C461L	2009	C537A	2016
C80	2016	C116	2009	C253	2016	C369G-V	2016	C400	2009	C463	2016	C537B	2059
C82S	2010	C117	2030	C254	2030	C369V	2016	C400-0	2009	C463H	2016	C537C	2059
C83-829	1104	C118(JAPAN)	2030	C263	2010	C370	2059	C400-GR	2009	C468	2009	C537D	2059
C83-880	1104	C119(JAPAN)	2030	C267	2009	C370F	2059	C400-R	2009	C468(LGR)	2009	C537D2	2059
C87	2009	C120	2009	C267A	2009	C370G	2059	C400-Y	2009	C468A	2009	C537E	2059
C88	2030	C121	2030	C268	2030	C370H	2059	C401	2059	C472Y	2009	C537EF	2059
C88A	2030	C122	2009	C268A	2030	C370J	2059	C401(JAPAN)	2009	C477	2016	C537EH	2059
C95	2030	C122(TRANSISTOR)	2030	C269	2010	C370K	2059	C402	2059	C478	2009	C537EJ	2059
C97	2030	C123(TRANSISTOR)	2030	C270	2055	C371	2059	C402(JAPAN)	2009	C478(D)	2009	C537EK	2059
C97A	2030	C124	2030	C271	2010	C371(0)	2059	C402A	2059	C478-4	2009	C537F	2059
C98	2009	C125	2007	C272	2010	C371-0	2059	C403	2059	C478D	2009	C537F1	2059
C99	2009	C127	2009	C281	2009	C371-O	2059	C403(C)	2059	C479	2030	C537F2	2059
C99CD	2030	C130	2030	C281A	2009	C371-R	2059	C403A	2059	C481	2030	C537FC	2059
C100	2009	C131	2009	C281B	2009	C371-R-1	2059	C403B(SONY)	2059	C482	2030	C537FV	2016
C100-OY	2009	C132	2009	C281C	2009	C371B	2059	C403C	2059	C492	2041	C537G	2016
C103	2009	C133	2009	C281C-EP	2009	C371G	2059	C403C(SONY)	2059	C493	2041	C537G1	2016
C103(JAPAN)	2009	C134	2009	C281D	2009	C371R	2059	C404	2059	C493-BL	2041	C537GF	2016
C103A(SCR)	1067	C134B	2009	C281EP	2009	C372	2009	C405	2009	C493-R	2041	C537GI	2009
C103A(TRANSISTOR)		C135	2009	C281H	2009	C372(0)	2009	C406	2009	C493-Y	2041	C537H	2016
	2009	C136	2009	C281HA	2009	C372-0	2009	C420	2030	C494	2041	C537HT	2016
C103B	1067	C137(TRANSISTOR)	2009	C281HB	2009	C372-1	2009	C423B	2009	C494-BL	2041	C537W	2016
C103Q	1067	C138(TRANSISTOR)	2009	C281HC	2009	C372-2	2009	C423C	2009	C494-R	2041	C538	2009
C103Y	1067	C138A	2009	C282	2009	C372-0	2009	C423D	2009	C494-Y	2041	C538A	2009
C103YY	1067	C139(TRANSISTOR)	2009	C282(TRANSISTOR)	2010	C372-R	2009	C423E	2009	C494BL	2041	C538AG	2009
C104	2009	C140(TRANSISTOR)	2030	C282H	2009	C372-Y	2009	C423F	2009	C497	2030	C538P	2009
C104A	2009	C147	2030	C282HA	2009	C372-Z	2009	C424	2009	C497-O	2030	C538Q	2009
C105	2009	C148(TRANSISTOR)	2010	C282HB	2009	C372GR	2009	C424(JAPAN)	2009	C497-R	2030	C538R	2009
C106A	1067	C150T	2030	C282HC	2009	C372H	2009	C424D	2009	C497-Y	2030	C538S	2009
C106A1	1067	C151	2009	C283	2009	C372Y	2009	C425	2030	C498	2030	C538T	2009
C106A2	1067	C152(TRANSISTOR)	2009	C283(TRANSISTOR)	2009	C373	2009	C425B	2009	C498-0	2030	C539	2009
C106A3	1067	C154	2020	C284	2009	C373BL	2009	C425C	2009	C498-R	2030	C539K	2009
C106A4	1067	C154B	2020	C284H	2009	C373G	2009	C425D	2009	C498-Y	2030	C539L	2009
C106B	1067	C155	2010	C284HA	2009	C373GR	2009	C425E	2009	C499	2059	C539R	2009
C106B1	1067	C156	2010	C284HB	2009	C373W	2009	C425F	2009	C499-R(FA-1)	2061	C539S	2009
C106B2	1067	C157	2009	C286(TRANSISTOR)	2010	C374	2016	C426	2030	C499-RY	2061	C544	2010
C106B3	1067	C158	2009	C289	2010	C374-BL	2016	C443	2030	C499-Y(FA-1)	2061	C544C	2010
C106B4	1067	C159	2009	C291(TRANSISTOR)	2030	C374-V	2016	C444	2009	C499R	2061	C544D	2010
C106C	1020	C160	2009	C296	2016	C374JA	2016	C450	2009	C499Y	2061	C544E	2010
C106C1	1020	C166	2009	C300	2009	C375	2010	C454	2009	C501(TRANSISTOR)	2030	C545	2010
C106C2	1020	C167	2009	C301	2009	C375-0	2010	C454(A)	2009	C503	2030	C545A	2010
C106C3	1020	C170	2009	C302(JAPAN)	2009	C375-Y	2010	C454A	2009	C503-0	2030	C545B	2010
C106C4	1020	C171	2009	C306	2030	C376	2009	C454B	2009	C503-Y	2030	C545C	2010
C106D	1020	C172	2009	C307	2030	C377	2009	C454C	2009	C503GR	2030	C545D	2010
C106D1	1020	C172A	2009	C308	2030	C378	20						

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C544Q	2009	C668D1	2010	C710(B)	2009	C744	2030	C816K	2030	C871D	2009	C927A	2016
C544R	2009	C668DE	2010	C710(C)	2009	C748	2010	C824	2030	C871E	2009	C927B	2016
C544S	2009	C668DO	2010	C710(D)	2009	C752	2009	C827	2030	C871F	2009	C927C	2016
C544T	2009	C668DV	2010	C710-1	2009	C752G	2009	C828	2009	C871G	2009	C927CJ	2016
C580	2030	C668DX	2010	C710-2	2009	C760	2009	C828-O	2009	C875	2030	C927CU	2016
C586	2041	C668DZ	2010	C710-4	2009	C761	2016	C828-OP	2009	C875-1	2030	C927CW	2016
C587	2009	C668E	2010	C710B	2009	C761Y	2016	C828A	2009	C875-1C	2030	C927D	2016
C587A	2009	C668E1	2010	C710B2	2009	C761Z	2016	C828AP	2009	C875-1D	2030	C927E	2016
C588	2009	C668E2	2010	C710BC	2009	C762	2016	C828AQ	2009	C875-1E	2030	C928	2016
C590Y	2059	C668EP	2010	C710C	2009	C763	2058	C828AR	2009	C875-1F	2030	C928B	2016
C593	2009	C668EV	2010	C710D	2009	C763(C)	2010	C828AS	2009	C875-2	2030	C928C	2016
C594	2009	C668EX	2010	C710DE	2009	C763B	2058	C828E	2009	C875-2C	2030	C928D	2016
C595	2009	C668F	2010	C710E	2009	C763C	2058	C828F	2009	C875-2D	2030	C928E	2016
C596	2009	C673	2023	C711	2009	C763D	2058	C828FR	2009	C875-2E	2030	C929	2010
C602E	2009	C673C2	2023	C711(E)	2009	C763SD	2058	C828H	2009	C875-2F	2030	C929-O	2010
C610	2023	C673D	2023	C711A	2009	C765	2041	C828K	2009	C875-3	2030	C929B	2010
C611(TRANSISTOR)	2010	C674	2010	C711AE	2009	C772	2010	C828LR	2009	C875-3C	2030	C929C	2010
C611A	1067	C674(JAPAN)	2010	C711D	2009	C772B	2058	C828LS	2009	C875-3D	2030	C929C1	2010
C611B	1067	C674B	2010	C711E	2009	C772BG	2058	C828N	2009	C875-3E	2030	C929D	2010
C611F	1067	C674C	2010	C711F	2009	C772BH	2058	C828P	2009	C875-3F	2030	C929D1	2010
C611G	1067	C674CV	2010	C711FG	2016	C772BVG	2058	C828Q	2009	C875BR	2030	C929DE	2010
C611U	1067	C674D	2010	C711G	2016	C772BX	2058	C828QRS	2009	C875C	2030	C929DP	2010
C613	2010	C674E	2010	C712	2009	C772BY	2058	C828R	2009	C875D	2030	C929DU	2010
C619	2009	C674F	2010	C712A	2009	C772C	2058	C828R/494	2016	C875E	2030	C929DV	2010
C619B	2009	C674G	2010	C712C	2009	C772C1	2058	C828S	2009	C875F	2030	C929E	2010
C619C	2009	C682	2016	C712D	2009	C772C2	2058	C828T	2009	C876	2030	C929ED	2010
C619D	2009	C682A	2016	C712E	2009	C772CK	2058	C828W	2009	C876C	2030	C929F	2010
C620	2009	C682B	2016	C712W	2009	C772CL	2058	C828Y	2009	C876D	2030	C929FK	2010
C620C	2009	C683	2016	C713	2009	C772CS	2058	C829	2009	C876E	2030	C930	2010
C620CD	2009	C683A	2016	C714	2009	C772CU	2058	C829A	2009	C876F	2030	C930B	2010
C620D	2009	C683B	2016	C715	2009	C772CV	2058	C829B	2009	C876TV	2030	C930BK	2010
C620DE	2009	C683V	2016	C715(JAPAN)	2016	C772CX	2058	C829BC	2009	C876TVVD	2030	C930BV	2010
C620E	2009	C684	2010	C715A	2009	C772D	2058	C829C	2009	C876TVE	2030	C930C	2010
C621	2009	C684(JAPAN)	2010	C715B	2009	C772DJ	2058	C829D	2009	C876TVEF	2030	C930CK	2010
C622	2009	C684A	2010	C715C	2009	C772DU	2058	C829R	2009	C889	2041	C930CL	2010
C629	2010	C684A(JAPAN)	2010	C715D	2009	C772DV	2058	C829X	2009	C894	2059	C930CS	2010
C631	2009	C684B	2010	C715E	2009	C772DX	2058	C829Y	2009	C896	2009	C930D	2010
C631A	2009	C684BK	2010	C715EJ	2009	C772DY	2058	C835	2010	C897	2041	C930DE	2010
C632	2009	C684F	2010	C715EV	2009	C772E	2058	C836M	2010	C897A	2041	C930DH	2010
C632A	2009	C686-248-0	2023	C715F	2009	C772F	2058	C837	2010	C897B	2041	C930DS	2010
C633	2009	C687	2041	C715XL	2009	C772K	2058	C837F	2010	C897C	2041	C930DT	2010
C633-7	2009	C688	2010	C716	2059	C772KB	2058	C837H	2010	C898	2041	C930DT-2	2010
C633A	2009	C689	2009	C716B	2059	C772KC	2058	C837K	2010	C898A	2041	C930DX	2010
C633G	2009	C689H	2009	C716C	2059	C772KD	2058	C837L	2010	C898B	2041	C930DZ	2010
C633H	2009	C693	2016	C716D	2059	C772KD1	2058	C837WVF	2010	C898C	2041	C930E	2010
C634	2009	C693(JAPAN)	2016	C716E	2059	C772KD2	2058	C838	2059	C899	2009	C930EP	2010
C634A	2009	C693A	2016	C716F	2059	C772R	2058	C838(H)	2059	C899K	2009	C930ET	2010
C641	2009	C693B	2016	C716G	2009	C772R(JAPAN)	2058	C838(J)	2059	C900	2016	C930EV	2010
C641B	2010	C693C	2016	C717	2010	C772RB-D	2058	C838(K)	2059	C900(L)	2016	C930EX	2010
C642	2055	C693D	2016	C717(FINAL-IF)	2009	C772RD	2058	C838(M)	2059	C900A	2016	C930F	2010
C642A	2055	C693E	2016	C717B	2010	C773	2009	C838A	2059	C900B	2016	C932	2020
C643A	2055	C693E(JAPAN)	2016	C717BK	2010	C773C	2009	C838B	2059	C900C	2016	C932E	2020
C644	2016	C693EB	2016	C717BLK	2010	C773D	2009	C838C	2059	C900D	2016	C933	2059
C644C	2016	C693ET	2016	C717C	2010	C773E	2009	C838D	2059	C900E	2016	C933BB	2059
C644F	2016	C693F	2016	C717E	2010	C774	2030	C838E	2059	C900F	2016	C933C	2059
C644F/494	2016	C693FC	2016	C720	2016	C775	2030	C838F	2059	C900L	2016	C933D	2059
C644FR	2016	C693FL	2016	C722	2010	C780	2061	C838H	2059	C900M	2016	C933E	2059
C644FS	2016	C693FU	2016	C725	2059	C780AG	2061	C838J	2059	C900S	2016	C933F	2059
C644H	2016	C693G	2016	C725-O	2059	C780AG-O	2061	C838K	2059	C900SA	2016	C933FP	2059
C644HR	2016	C693G(JAPAN)	2016	C727	2061	C780AG-R	2061	C838L	2059	C900SB	2016	C933FPC	2059
C644HS	2016	C693GL	2016	C728	2061	C780AG-Y	2061	C838M	2059	C900SC	2016	C933FPD	2059
C644P	2016	C693GS	2016	C731R	2030	C780G	2061	C838R	2059	C900SD	2016	C933PPE	2059
C644PJ	2016	C693GU	2016	C732	2016	C781	2030	C839	2009	C900U	2016	C933PFE	2059
C644Q	2016	C693GZ	2016	C732BL	2016	C784	2058	C839(H)	2009	C903D	2058	C933FPG	2009
C644R	2016	C693H	2016	C732GR	2016	C784-0	2058	C839(J)	2009	C907	2009	C933G	2009
C644RST	2016	C694	2016	C732S	2016	C784-O	2058	C839(M)	2009	C907A	2009	C934	2030
C644S	2016	C694D	2009	C732V	2016	C784A	2058	C839A	2009	C907AC	2009	C934(TRANSISTOR)	2009
C644S/494	2016	C694E	2016	C732Y	2016	C784BN	2058	C839B	2009	C907AD	2009	C934C	2009
C644ST	2016	C694F	2016	C733	2016	C784R	2058	C839C	2009	C907AH	2009	C934D	2009
C644T	2016	C694G	2016	C733-O	2016	C784Y	2058	C839D	2009	C907C	2009	C934E	2009
C645	2010	C694Z	2016	C733-O	2016	C785	2016	C839E	2009	C907D	2009	C934F	2009
C645A	2010	C696	2030	C733BL	2016	C785(O)	2058	C839F	2009	C907H	2009	C934G	2009
C645B	2010	C696A	2030	C733GR	2016	C785BN	2058	C839H	2009	C907HA	2009	C934P	2009
C645C	2010	C696B	2030	C733R	2016	C785D	2058	C839J	2009	C912	2009	C936	2055
C645G	2010	C696D	2030	C733V	2016	C785E	2058	C839L	2009	C913	2009	C938	2059
C645N	2010	C696E	2030	C733Y	2016	C785R	2058	C839M	2009	C917K	2016	C938A	2059
C646	2041	C696F	2030	C734	2059	C786	2016	C839N	2009	C918	2016	C938B	2059
C647	2041	C696G	2030	C734-O	2059	C786R	2016	C839S	2009	C920	2058	C938C	2059
C647R	2009	C696H	2030	C734-O	2059	C787	2016	C847	2009	C920E	2010	C941	2059
C648	2016	C696I	2030	C734-R	2059	C789	2020	C848	2009	C920Q	2058	C941-O	2059
C648H	2009	C701(TRANSISTOR)	2009	C734-Y	2059	C789-0	2020	C849	2009	C920R	2009	C941-O	2059
C649	2009	C702	2009	C734GR	2059	C789-O	2020	C850	2009	C921	2010	C941-R	2059
C650	2009	C705	2010	C734O	2059	C789-R	2020	C851	2041	C921C1	2010	C941-Y	2059
C650B	2009	C705B	2010	C734Y	2059	C789-Y	2020	C858	2016	C921K	2010	C941R	2059
C655	2009	C705C	2010	C735	2059	C790-O	2020	C858E	2016	C921L	2010	C943	2009
C656	2010	C705D	2010	C735(FA-3)	2010	C793	2041	C858F	2016	C921M	2010	C943A	2009
C657	2010	C705E	2010	C735(O)	2059	C793BL	2041	C858FG	2016	C922	2010	C943B	2009
C658	2010	C705F	2010	C735-O	2059	C793R	2041	C858G	2016	C922A	2010	C943C	2009
C658A	2010	C705TV	2010	C735-O	2059	C793Y	2041	C859	2016	C922B	2010	C944	2009
C659	2010	C708	2030	C735-R	2009	C794R	2041	C859E	2016	C922C	2010	C944A	2009
C662	2010	C708A	2030	C735B	2059	C796	2009	C859F	2016	C922K	2010	C944B	2009
C663	2016	C708AA	2030	C735F	2059	C797	2030	C859FG	2016	C922L	2010	C944C	2009
C664	2041	C708AB	2030	C735FA3	2059	C800	2010	C859G	2016	C922M	2010	C944D	2009
C664B	2041	C708AC	2030	C735GR	2059	C815	2059	C859GK	2016	C923	2016	C944K	2009
C664C	2041	C708AH	2030	C735H	2059	C815(M)	2059	C8					

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C945H	2009	C1047E	2010	C1213AB	2059	C1358P	2055	C2300.037-096	2009	CA150	1104	CCS2006D	2010
C945K	2009	C1051	2041	C1213AC	2059	C1358Q	2055	C2538-11	2009	CA152VA	1114	CCS2008F015	2010
C945L	2009	C1051C	2041	C1213AD	2059	C1358R	2055	C3000P	1801	CA200	1104	CCS4004	2009
C945M	2009	C1051D	2041	C1213AK	2059	C1359	2009	C3001P	1801	CA224E	1711	CCS6168	2009
C945O	2009	C1051E	2041	C1213AKA	2059	C1359A	2009	C3004P	1802	CA224G	1711	CCS6168F	2009
C945P	2009	C1051F	2041	C1213AKB	2059	C1359B	2009	C3123	2010	CA239	1712	CCS6168G	2030
C945Q	2009	C1051LC	2041	C1213AKC	2059	C1359C	2009	C3710	2009	CA239A	1712	CCS6225F	2016
C945QL	2009	C1051LD	2041	C1213AKD	2059	C1360	2016	C3800P	1808	CA239AE	1712	CCS6226G	2016
C945QP	2009	C1051LE	2041	C1213B	2059	C1361	2059	C4011	561	CA239AG	1712	CCS6227F	2016
C945R	2016	C1051LF	2041	C1213BC	2059	C1362	2059	C4015	562	CA239E	1712	CCS6228F	2023
C945S	2009	C1060	2020	C1213C	2059	C1363	2059	C4018	563	CA239G	1712	CCS6229H	2030
C945T	2009	C1060A	2020	C1213CD	2059	C1364	2059	C4020	564	CA250	1104	CCS9015	2023
C945TQ	2009	C1060B	2020	C1213D	2059	C1364A	2059	C-4401	1102	CA324E	1711	CCS9016D	2010
C945TR	2009	C1060BMA	2020	C1214	2059	C1367	2055	C5005	1123	CA324G	1711	CCS9016E	2010
C945X	2009	C1060C	2020	C1214A	2059	C1367A	2055	C5359	2010	CA339	1712	CCS9017	2016
C947	2016	C1060D	2020	C1214B	2059	C1372Y	2059	C6052P	007	CA339A	1712	CCS9017G925	2016
C948	2016	C1061	2020	C1214C	2059	C1390A	2010	C6059P	1758	CA339AE	1712	CCS9018E	2009
C959A	2030	C1061A	2020	C1214D	2059	C1390I	2009	C6063P	1759	CA339AG	1712	CCS9018F	2010
C959B	2030	C1061B	2020	C1215	2016	C1390J	2009	C6079P	1757	CA339E	1712	CCS9018H924	2016
C959C	2030	C1061C	2020	C1218	2030	C1390K	2009	C6083P	1759	CA339G	1712	CD-0000	1123
C959D	2030	C1061D	2020	C1220E	2059	C1390V	2009	C6102P	038	CA555CE	1723	CD0000	1123
C959M	2030	C1061T	2020	C1222	2016	C1390W	2009	C6444H	2016	CA555CG	1723	CD0000/7825B	1123
C959S	2030	C1061T-B	2020	C1222A	2016	C1390WH	2009	C7076	2016	CA555E	1723	CD-0000N	1123
C959SA	2030	C1061TB	2020	C1222B	2016	C1390WI	2009	C7335-BL	2016	CA555G	1723	CD0000NC	1102
C959SB	2030	C1070	2016	C1222C	2016	C1390WX	2009	C7350RN	2009	CA741	007	CD000	1123
C959SC	2030	C1071	2009	C1222D	2016	C1390WY	2009	C7840	2058	CA741C	007	CD-00-9	1102
C959SD	2030	C1072	2030	C1244	2009	C1390X	2009	C9082	2023	CA741CE	007	CD0014	1102
C960	2030	C1072A	2030	C1278	2061	C1390XJ	2009	C9083	2023	CA741CG	007	CD0014(MORSE)	1102
C960(JAPAN)	2030	C1079	2041	C1278S	2061	C1390XK	2009	C9084	2023	CA741CS	007	CD-0014N	1123
C960A	2030	C1079R	2041	C1279	2061	C1390YM	2009	C9085	2023	CA741E	007	CD0014NA	2009
C960B	2030	C1079Y	2041	C1279S	2061	C1393	2058	C9426	2058	CA741G	007	CD0014NG	2009
C960C	2030	C1080	2041	C1280	2060	C1394	2058	C9604	2009	CA1020A	1104	CD0015N	2009
C960D	2030	C1080R	2041	C1280A	2060	C1396	2010	C9634	2016	CA1365	1759	CD-0021	1102
C960S	2030	C1080Y	2041	C1280AS	2060	C1398	2020	C10110	1104	CA1458	038	CD0021	2009
C960SA	2030	C1101	2055	C1280S	2060	C1398Q	2020	C10159	1104	CA1458E	038	CD-0033	561
C960SB	2030	C1101A	2055	C1293A(LAST-IF)	2009	C1402	2041	C10176	1104	CA1458F	038	CD0033	561
C960SC	2030	C1101B	2055	C1293B	2010	C1413	2055	C10215-2	2007	CA1458G	038	CD-05	1104
C960SD	2030	C1101C	2055	C1295	2055	C1413A	2055	C10227	2007	CA1458S	038	CD05	1104
C966	2009	C1101D	2055	C1295-O	2055	C1416	2009	C10230-3	2007	CA2002	703	CD-07	1101
C967	2009	C1101E	2055	C1295A	2055	C1416BL	2009	C10258	2007	CA2002V	703	CD07	1101
C968	2009	C1101F	2055	C1308	2055	C1417	2010	C10260	2007	CA2004	703	CD-2	1104
C968P	2009	C1101L	2055	C1308K	2055	C1417C	2010	C10261	2007	CA2065	1759	CD2	1104
C972	2030	C1107Q	2020	C1309	2055	C1417D	2010	C10262	2007	CA2065#	1759	CD-2N	1104
C972C	2030	C1115	2041	C1312	2016	C1417D(1)	2010	C10279-1	2016	CA3065#	1759	CD-4	1104
C972D	2030	C1123	2009	C1312F	2016	C1417D(U)	2010	C10279-3	2009	CA3065/7F	1759	CD4	1104
C972E	2030	C1126	2058	C1312G	2016	C1417DU	2010	C10291	2007	CA3065, RCA	1759	CD-20	1102
C982	2060	C1128	2016	C1312H	2016	C1417F	2010	C11021	2007	CA3065D	1759	CD31-00006	565
C983	2061	C1128(3RD-IF)	2009	C1312Y	2016	C1417G	2010	C12711	2009	CA3065E	1759	CD31-00008	561
C984	2030	C1128(S)	2058	C1312YF	2016	C1417H	2010	C12712	2030	CA3065F	1759	CD31-00012	562
C984A	2030	C1128D	2058	C1312YG	2016	C1417U	2010	C12923	2030	CA3065FC	1759	CD31-00015	563
C984B	2030	C1129	2058	C1312YH	2016	C1417V	2010	C12924	2030	CA3065F, C.	1759	CD31-00017	564
C984C	2030	C1129(R)	2058	C1313	2016	C1417VW	2010	C12925	2009	CA3065PC	1759	CD31-10365	564
C993	2009	C1151	2055	C1313F	2016	C1417W	2010	C12926	2030	CA3065RCA	1759	CD31-12019	562
C997	2016	C1151A	2055	C1313G	2016	C1418	2020	C13061	2016	CA3741CE	007	CD31-12022	563
C1000	2016	C1166	2059	C1313H	2016	C1418A	2020	C13390	2009	CA3741E	007	CD31-12024	564
C1000-BL	2016	C1166-0	2059	C1313Y	2016	C1418B	2020	C13391	2009	CA6664	1104	CD31-12039	562
C1000-GR	2016	C1166D	2059	C1313YF	2016	C1418C	2020	C13391A	2009	CA6665	1104	CD-37	1102
C1000-Y	2016	C1166GR	2059	C1313YG	2016	C1418D	2020	C13392	2030	CA7248	1104	CD37	1102
C1000Y	2016	C1166R	2059	C1313YH	2016	C1419	2020	C13393	2030	CA8314	1104	CD-37A	1102
C1002	2016	C1166Y	2059	C1317	2059	C1419A	2020	C13394	2030	CA-9011H	2009	CD37A	1102
C1003	2009	C1170A	2055	C1317B	2059	C1419B	2020	C13398	2030	CAC5028A	2010	CD37A2	1104
C1004	2055	C1171	2055	C1317P	2059	C1419C	2020	C13901	2009	CAM-12	2009	CD38	2009
C1004A	2055	C1172	2055	C1317Q	2059	C1419D	2020	C14256	2009	CB5	1104	CD101	1123
C1005	2055	C1172A	2055	C1317R	2059	C1429	2020	C21382	1104	CB10	1104	CD437	2023
C1005A	2055	C1172B	2055	C1317S	2059	C1429-1	2020	C21383	562	CB20	1104	CD441	2016
C1006	2016	C1173	2020	C1317T	2059	C1429-2	2020	C21480	1123	CB50	1104	CD445	2023
C1006A	2016	C1173-0	2020	C1318	2059	C1437	2007	C23018	1103	CB100	1114	CD446	2009
C1006B	2016	C1173-GR	2020	C1318Q	2059	C1438	2007	C36566	2041	CB-103	2007	CD461	2041
C1006C	2016	C1173-O	2020	C1318R	2059	C1472K	2060	C36578	2016	CB103	2007	CD461-014-614	2041
C1007	2009	C1173-R	2020	C1318S	2059	C1537	2016	C36579	2030	CB104	2007	CD500	2023
C1008	2030	C1173-Y	2020	C1325	2055	C1537-3	2016	C36580	2009	CB106	1123	CD562	2016
C1010	2016	C1173C	2020	C1325A	2055	C1537-O	2016	C36583	2020	CB150	1104	CD1111	1104
C1010A	2016	C1173R	2020	C1327	2016	C1537B	2016	C51909B	2023	CB156	2007	CD1112	1104
C1010B	2016	C1173X0	2020	C1327FS	2016	C1537S	2016	C139000	2030	CB157	2007	CD1113	1104
C1010C	2016	C1173X	2020	C1327U	2016	C1538	2016	C139000A	2030	CB158	2007	CD1114	1104
C1023	2010	C1173Y	2020	C1328	2016	C1538A	2016	C248507	1104	CB161	2007	CD1115	1104
C1023(JAPAN)	2010	C1175	2059	C1328T	2016	C1538S	2016	C255110-011	1102	CB163	1123	CD1116	1104
C1023-O	2010	C1175C	2059	C1328U	2016	C1538SA	2016	C256125-011	1103	CB200	1104	CD1117	1104
C1023-Y	2010	C1175D	2059	C1335	2059	C1542	2016	C523383	2009	CB244	1104	CD1121	1104
C1023G	2010	C1175E	2059	C1335A	2016	C1547	2016	C1107832P6	1101	CB246	2009	CD1122	1104
C1026	2010	C1175F	2059	C1335B	2016	C1573	2061	C1945295DY1	2009	CB248	2007	CD1123	1104
C1026G	2010	C1182B	2016	C1335C	2016	C1573P	2061	C2475078-3	2010	CB249	2007	CD1124	1104
C1026Y	2010	C1182C	2016	C1335D	2016	C1633	2009	C2485076-3	2030	CB250	1104	CD1125	1104
C1030P	2041	C1182D	2016	C1335E	2016	C1639	2009	C2485077-2	2030	CB254	2007	CD1126	1104
C1032	2010	C1184	2055	C1335F	2016	C1648	2016	C2485078-1	2010	CB-393	1123	CD1127	1104
C1032G	2010	C1184A	2055	C1342	2010	C1658Q	2061	C2485079-1	2010	CB393	1123	CD1141	1104
C1032Y	2010	C1184B	2055	C1342A	2010	C1667	2041	C6141990	1102	CC102BA	1104	CD1142	1104
C1033	2061	C1184C	2055	C1342B	2010	C1674	2010	C6862400	2009	CC102DA	1104	CD1143	1104
C1033A													

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CD4001CN	2401	CD3122055	562	CDQ10008	2009	CER670A	1104	CL511	2010	CK790	2007	CP102MA	1104
CD4001MJ	2401	CD3212055(ZENER)	562	CDQ10009	2009	CER670B	1104	CL512	2010	CK791	2007	CP102PA	1114
CD4001MW	2401	CD36X7-S	2009	CDQ10010	2009	CER670C	1104	CL513	2010	CK793	2007	CP102RA	1114
CD4001UBD	2401	CD3430	2009	CDQ10011	2030	CER680	1104	CL521	2010	CK794	2007	CP102VA	1114
CD4001UBE	2401	CD3496	2023	CDQ10012	2030	CER680A	1104	CL522	2010	CK870	2007	CP103	1114
CD4001UBF	2401	CD3587	2030	CDQ10014	2030	CER680B	1104	CL523	2010	CK871	2007	CP152VA	1114
CD4009AE	2449	CD3745	2030	CDQ10016	2009	CER680C	1104	CL531	2009	CK872	2007	CP400	2041
CD4011	2411	CD3745(ZENITH)	2009	CDQ10017	2009	CER690	1104	CL532	2010	CK875	2007	CP401	2041
CD4011AD	2411	CD3746	2009	CDQ10018	2009	CER690A	1104	CL532	2009	CK878	2007	CP403	2061
CD4011AE	2411	CD3746(ZENITH)	2023	CDQ10019	2009	CER690B	1104	CL532	2010	CK879	2007	CP404	2041
CD4011AF	2411	CD31201BC	2009	CDQ10020	2009	CER690C	1104	CL533	2010	CK882	2007	CP405	2041
CD4011BCJ	2411	CD32010	2009	CDQ10021	2009	CER700	1104	CL5201	2009	CK888	2007	CP406	2041
CD4011BCN	2411	CD32010C	2009	CDQ10022	2009	CER700A	1104	CL5202	2009	CK891	2007	CP407	2041
CD4011BD	2411	CD32010D	2009	CDQ10023	2009	CER700B	1104	CL5203	2009	CK892	2007	CP408	2041
CD4011BE	2411	CD32510C	2009	CDQ10024	2009	CER700C	1104	CL5204	2007	CK942	2023	CP409	2030
CD4011BF	2411	CD32510C-G	2009	CDQ10025	2009	CER710	1104	CJ-5206	2009	CL05	1104	CP701	2020
CD4011BMJ	2411	CD32510G	2009	CDQ10026	2009	CER710A	1104	CJ5206	2009	CL010	1104	CP702	2020
CD4011BMW	2411	CD34023A130	2009	CDQ10027	2009	CER710B	1104	CJ-5207	2009	CL025	1104	CP703	2061
CD4011CJ	2411	CD35000	2010	CDQ10028	2009	CER710C	1104	CJ5207	2009	CL1	1104	CP2357	2030
CD4011CN	2411	CD35000-1B	2010	CDQ10032	2009	CER720	1114	CJ-5208	2009	CL1.5	1104	CP3212055	562
CD4011MJ	2411	CD35008	2030	CDQ10033	2030	CER720A	1114	CJ-5210	2030	CL2	1104	CQ1	2007
CD4011MW	2411	CD35028A	2030	CDQ10035	2009	CER720B	1114	CJ5210	2030	CL3	1104	CR0000	1123
CD4011UBD	2411	CD35038A	2010	CDQ10036	2009	CER720C	1114	CJ-5211	2009	CL4	1104	CR02AM	1067
CD4011UBE	2411	CD35071A	2010	CDQ10048	2030	CER730	1114	CJ5211	2009	CL5	1104	CR02AM1	1067
CD4011UBF	2411	CD35075B	2010	CDQ10051	2030	CER730A	1114	CJ-5212	2009	CL6	1104	CR02AM4	1067
CD4013	2413	CD38000	2009	CDQ10052	2030	CER730B	1114	CJ5212	2009	CL7	1104	CR02AN4	1067
CD4013AD	2413	CD38000-1	2009	CDQ10053	2030	CER730C	1114	CJ5213	2030	CL8	1104	CR/E	1104
CD4013AE	2413	CD38000-1	2030	CDQ10057	2030	CF-092	562	CJ5214	2030	CL166C	2009	CR1-051C	1067
CD4013AF	2413	CD38000-1B	2009	CDQ10058	2030	CF1	2010	CJ5215	2030	CL166C,D	2009	CR1-051CA	1067
CD4013BCJ	2413	CD38000-1C	2030	CDR-2	1104	CF-2	2009	CK4	2007	CL166D	2009	CR1-101C	1067
CD4013BCN	2413	CD38000-CM	2030	CDR-4	1104	CF2	2009	CK4A	2007	CLM05	1104	CR1-101CA	1067
CD4013BD	2413	CD38001	2009	CD5-16B	1104	CF5	2009	CK13	2007	CLM1	1104	CR1-201C	1067
CD4013BE	2413	CD38001	2009	CDZ-9V	562	CF14	2059	CK13A	2007	CM0770	2030	CR1-201CA	1067
CD4013BF	2413	CD38002	2030	CDZ15000	2030	CF102DA	1104	CK14	2007	CM4001	2401	CR3AMZ	1020
CD4013BMJ	2413	CD38002-1	2030	CDZ-C9V	562	CF102PA	1114	CK14A	2007	CM4001AD	2401	CR3AMZ8	1020
CD4013BMW	2413	CD38011B	2009	CE0360/7839	2007	CF102RA	1114	CK16	2007	CM4001AE	2401	CR101/6515	1123
CD4017AD	2417	CD38021	2009	CE0361/7839	2007	CF102VA	1114	CK16A	2007	CM4011	2411	CR102/6515	1123
CD4017AE	2417	CD38054	2009	CE0362/7839	2007	CF152VA	1114	CK17	2007	CM4011AD	2411	CR353	1102
CD4017AF	2417	CD38201	2009	CE0398/7839	1104	CF-1295H	2030	CK17A	2007	CM4011AE	2411	CR501/6515	1104
CD4017BCJ	2417	CD38457	1102	CE0398/7839	1144	CG1	2009	CK22	2007	CM4013	2413	CR801	1104
CD4017BCN	2417	CD39000	2007	CE0495/7839	1123	CG12-E	1123	CK22A	2007	CM4013AD	2413	CR951	1114
CD4017BD	2417	CD39000-1	2023	CE0495/7839	2007	CG12E	1123	CK22B	2007	CM4013AE	2413	CR952	1114
CD4017BE	2417	CD39000-1D	2023	CE37	1102	CG64H	1123	CK22C	2007	CM4017	2417	CR953	1114
CD4017BF	2417	CD39000-1D	2023	CE502	1104	CG65H	1123	CK25	2007	CM4017AD	2417	CR954	1114
CD4017BMJ	2417	CD39002-1C	2030	CE504	1104	CG66H	1123	CK25A	2007	CM4017AE	2417	CR955	1114
CD4017BMW	2417	CD39002-1B	2030	CE506	1104	CG74H	1123	CK26	2007	CM4023AD	2423	CR956	563
CD4023AE	2423	CD39000-1E	2023	CE508	1114	CG86H	1123	CK26A	2007	CM4023AE	2423	CR1034	1104
CD4023AF	2423	CD39000-1C	2009	CE510	1114	CG23018	1103	CK27	2007	CM4049	2449	CR1035	1104
CD4023BCJ	2423	CD39000-1C	2009	CE4001B	2009	CGD462	1123	CK27A	2007	CM7163	2009	CS11C	1067
CD4023BCN	2423	CD39001C	2009	CE4001C	2009	CGD591	1123	CK28	2007	CM8470	1104	CS-16E	1104
CD4023BD	2423	CD39002-1B	2010	CE4001E	2009	CGD685	1123	CK28A	2007	CM8640E	2007	CS16E	1104
CD4023BE	2423	CD39002-1B	2009	CE4003D	2030	CGD1029	1123	CK64	2007	CMC334-423	2009	CS131D(AXIAL)	1104
CD4023BF	2423	CD39002-1B	2009	CE4003E	2009	CGE-50	2007	CK64A	2007	CMO770	2009	CS183E	2009
CD4023BMJ	2423	CD39002-1B	2010	CE4004C	2009	CGE-51	2007	CK64B	2007	CM2484	2030	CS184E	2009
CD4023BMW	2423	CD39002-1B	2010	CE4005C	2023	CGE-52	2007	CK64C	2007	CM249	1104	CS184J	2010
CD4023C	2423	CD39002-1B	2010	CE4008B	2058	CGE-54(PNP)	2007	CK65	2007	COD1-6045	1104	CS360	2009
CD4023CJ	2423	CD39002-1B	2010	CE4008C	2058	CGE-61	2059	CK65A	2007	COD1-6046	1104	CS429J	2010
CD4023CN	2423	CD39000-1	2009	CE4008D	2058	CGE-62	2016	CK65B	2007	COD1-6047	1104	CS430H	2010
CD4023MJ	2423	CD39000-1	2009	CE4008E	2058	CGE-64	2060	CK65C	2007	COD1-6048	1104	CS-460B	2009
CD4023MW	2423	CD39000-1	2009	CE4010D	2010	CGE-66	2020	CK66	2007	COD1531	1104	CS-461B	2010
CD4023UBD	2423	CD39000-1B	2009	CE4010E	2010	CGE-69	2027	CK66A	2007	COD1532	1104	CS461F	2010
CD4023UBE	2423	CD39000-1C	2009	CE4012D	2023	CGE-79	2055	CK66B	2007	COD1533	1104	CS469F	2010
CD4023UBF	2423	CD39000-1D	2009	CE4013E	2009	CGE-500	1102	CK66C	2007	COD1534	1104	CS496	2009
CD4049AE	2449	CD39000-1D	2009	CE213811	2007	CH119D	1104	CK67	2007	COD1535	1104	CS497	2009
CD4049UBE	2449	CD39000-1B	2009	CEC4050	1104	CHA425.1	565	CK67A	2007	COD1536	1104	CS706	2009
CD4066	2466	CD39000C	2009	CER6B	1104	CHA76.2	561	CK67B	2007	COD1537	1114	CS718	2009
CD4066B	2466	CD39016A	2009	CER67	1104	CHA76.2A	561	CK67C	2007	COD1538	1114	CS718A	2009
CD4066BE	2466	CD39019B	2009	CER67A	1104	CHA76.2A	561	CK83	2007	COD1551	1104	CS720A	2009
CD4116	563	CD39000-1	2009	CER67B	1104	CHM25.1	565	CK131	1124	COD1552	1104	CS-9012HF	2023
CD4117	563	CD39018	2009	CER67C	1104	CJ2711	2009	CK398	2061	COD1553	1104	CS9012HF	2023
CD4118	563	CD39010-6	2009	CER68	1104	CJ2712	2009	CK419	2009	COD1554	1104	CS918	2010
CD4121	563	CD39010-G	2016	CER68A	1104	CJ2713	2009	CK420	2009	COD1555	1104	CS925M	2009
CD4122	563	CD390132	2009	CER68B	1104	CJ2714	2009	CK421	2009	COD1556	1104	CS929	2014
CD5002	1103	CD3901070	2030	CER68C	1104	CJ2923	2009	CK422	2009	COD1575	1104	CS930	2014
CD5003	1102	CD3904913	2009	CER-49	1104	CJ2924	2009	CK474	2009	COD1611	1104	CS954	2030
CD-5038	1103	CDG-00	1102	CER69	1104	CJ2925	2009	CK475	2009	COD1612	1104	CS1014	2010
CD6016	1103	CDG-00	1102	CER69A	1104	CJ2926	2009	CK476	2009	COD1613	1104	CS1014D	2010
CD6016-013-689	1103	CDG-005	1104	CER69B	1104	CJ3390	2009	CK477	2009	COD1614	1104	CS1014E	2010
CD6019	2009	CDG-025	1102	CER69C	1104	CJ3391	2009	CK661	2007	COD1615	1104	CS1014F	2010
CD6150	2009	CDG-20	1102	CER70	1104	CJ3391A	2009	CK662	2007	COD1616	1104	CS1014G	2016
CD6153	2030	CDG-20/494	1102	CER70A	1104	CJ3392	2009	CK705	1123	COD1617	1114	CS1014H	2016
CD6153-2	2030	CDG-21	1102	CER70B	1104	CJ3393	2009	CK706	1123	COD1618	1114	CS1018	2010
CD6157	2009	CDG-22	1102	CER70C	1104	CJ3394	2009	CK706	1123	COD1556	1104	CS1068	2009
CD6161P1N013-75	1103	CDG-22	1102	CER-71	1104	CJ3395	2009	CK706-P	1123	COD1557	1104	CS1120C	2016
CD6375	2009	CDG-24	1102	CER71	1104	CJ3396	2009	CK706A	1123	COD1558	1104	CS-1120C1	2009
CD8000	2009	CDG24	1102	CER71A	1104	CJ3397	2009	CK706P	1123	COD1559	1104	CS-1120C2	2009
CD8000-1	2009	CDG24/3490	1102	CER71B	1104	CJ3398	200						

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CS1168G	2009	CS1348	2009	CS2716	2016	CS9011(E/F)	2009	CS9020E	2023	CTP-2001-1009	2007
CS1168H	2009	CS1349	2009	CS2922	2009	CS9011(EF)	2009	CS9020F	2023	CTP-2001-1010	1123
CS1170F	2023	CS1350	2010	CS2923	2009	CS9011(GH)	2009	CS9021G-I	2010	CTP-2001-1011	1104
CS1221F	2023	CS1351	2010	CS2924	2009	CS9011/3490	2009	CS9021HF(LAST-IF)	2059	CTP-2001-1012	1104
CS1225D	2010	CS1352	2030	CS2925	2009	CS9011D	2009	CS9021HG(LAST-IF)	2059	CTP-2006-1001	2007
CS1225E	2010	CS1353	2009	CS2941	2023	CS9011E	2009	CS9022LE	2030	CTP-2006-1002	2007
CS1225F	2010	CS1354	2023	CS-3001B	2010	CS-9011F	2009	CS9101B	2009	CTP-2006-1003	2007
CS1225H	2030	CS-1359	2009	CS3001B	2009	CS9011F	2009	CS9102	2023	CTP-2006-1004	1123
CS1225HF	2030	CS1359	2010	CS-3024	2060	CS-9011G	2009	CS9103B	2030	CTP2076-1001	2007
CS1226	2010	CS1360	2010	CS3390	2009	CS9011G	2009	CS9103C	2030	CTP2076-1002	2007
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CS1226F	2010	CS1361E	2010	CS3391A	2009	CS9011H	2009	CS9104	2016	CTP2076-1004	2007
CS1226G	2010	CS-1361F	2009	CS3392	2009	CS9011I	2009	CS9124-C2	2010	CTP2076-1005	2007
CS1226H	2010	CS1361F	2010	CS3393	2009	CS-9011L	2009	CS9124B1	2010	CTP2076-1006	2007
CS1226N	2009	CS-1361G	2009	CS3394	2009	CS9011N	2009	CS9125-B1	2010	CTP2076-1007	2007
CS1227	2010	CS1361G	2009	CS3395	2009	CS9012	2023	CS-9125B	2009	CTP2076-1008	2007
CS1227D	2010	CS1362	2009	CS3396	2009	CS9012/3490	2023	CS9125B	2009	CTP2076-1009	2007
CS1227E	2010	CS1363	2009	CS3397	2009	CS9012E	2023	CS9126	2009	CTP2076-1010	2007
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CS1228E	2023	CS1368C	2009	CS3404	2009	CS9012FG	2023	CS9129B	2023	CV12E	1020
CS1229	2009	CS1368D	2009	CS3405	2009	CS9012H	2023	CS9129B1	2023	CV425	1123
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CS1229C	2009	CS-1372	2030	CS3416	2009	CS9012HF	2023	CS9600-5	2009	CX-0033	1123
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CS1229G	2009	CS-1386H	2009	CS3607	2009	CS9012HH	2023	CS90111	2009	CX-0037	1104
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CS1229N	2030	CS1433E	2009	CS3702	2023	CS-9013	2009	CT11-2A	1001	CX0039	1104
CS1235C	2009	CS1433F	2030	CS3703	2023	CS9013	2009	CT11-4A	1000	CX-0040	1104
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CS1235G	2009	CS1460H	2016	CS3706	2030	CS9013B	2009	CT12-4A	1000	CX-0042	1123
CS1236D	2009	CS1461J	2016	CS3707	2016	CS9013C	2009	CT30-1A	1001	CX-0045	1123
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CS1238	2010	CS1462F	2016	CS3709	2016	CS9013E	2009	CT30-4A	1000	CX-0047	1123
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CS1238F	2009	CS1463A	2009	CS3711	2016	CS9013F	2009	CT31-2A	1001	CX-0048	1104
CS1238G	2010	CS1464H	2030	CS3843	2009	CS9013G	2009	CT31-4A	1000	CX0048	1104
CS1238H	2010	CS1508G	2010	CS3844	2009	CS9013H	2009	CT32-1A	1001	CX0049	1104
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CS-1238P	2009	CS1509F	2010	CS3854	2009	CS9013HE	2009	CT32-4A	1000	CX-0052	563
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CS1248T	2030	CS1625	2009	CS4006	2030	CS9014C/3490	2009	CT1021	2016	CXL110	1123
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CS1251E	2023	CS1664	2030	CS4013	2023	CS9014G	2009	CT1024	2007	CXL115	1101
CS1251F	2023	CS1665	2009	CS4021	2009	CS9015	2023	CT1300	2010	CXL116	1104
CS1252B	2010	CS1702C	2009	CS4060	2009	CS9015B	2023	CT1500	2010	CXL117	1104
CS1252C	2010	CS1711	2030	CS4061	2009	CS9015C	2023	CT-2002	1123	CXL120	1101
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CS1257	2009	CS1893	2030	CS4193	2009	CS-9015D	2023	CT-2005	1123	CXL125	1114
CS-1258	2009	CS1990	2030	CS4194	2009	CS9015D	2023	CT2007	1123	CXL126	2007
CS1258	2009	CS2001	2009	CS4424	2009	CS-9016	2058	CT-3003	1104	CXL128	2030
CS-1259	2009	CS2001H	2009	CS4425	2009	CS9016	2058	CT3003	1104	CXL130	2041
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CS1284H	2016	CS-2005C	2023	CS5450	2030	CS9016EF	2058	CTN300	1114	CXL152	2020
CS1286	2009	CS2006	2009	CS5451	2030	CS-9016F	2058	CTN400	1114	CXL153	2027
CS1288	2009	CS2006F	2058	CS-6168F	2009	CS9016F	2058	CTN500	1114	CXL156	1114
CS1289	2009	CS2006G	2010	CS6168F	2009	CS9016F(TRUE TONE)	2009	CTN600	1114	CXL159	2009
CS1293	2010	CS-2007G	2010	CS-6168G	2009	CS9016F(WESTGHSE)	2009	CTN800	1114	CXL160	2007
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CS1330C	2010	CS2222	2009	CS-6227G	2010	CS-9018E	2010	CTP1033	2007	CXL747	1757
CS1330D	2009	CS2369	2009	CS6227G	2009	CS9018E	2010	CTP1034	2007	CXL5010	565
CS1340D	2010	CS2481	2009	CS							

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D-2	1123	D25C	1104	D38V2	2061	D133(CHAN.MASTER)	2041	D322B	2041	D3500	2055
D2-1	1104	D26B1	2010	D38V3	2061	D322C	2041	D3530	1124	DDAY008001	561
D2-77-1	1102	D26B2	2010	D38W7	2061	D134	2007	D4250	2041	DDAY010002	562
D2G-3	563	D26C1	2010	D38W12	2061	D134(CHAN.-MASTER)	2041	D4622	1102	DDAY010005	562
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D2H(DIODE)	1104	D26C3	2010	D39J1	2023	D141	2020	D4623A	1104	DDAY047001	1103
D2J	1104	D26C4	2016	D39J1-6	2009	D141(CHAN.MASTER)	2020	D4624	1104	DDAY048001	1103
D2R31	1123	D26C5	2016	D39J2	2023	D141H01	2020	D4624A	1104	DDAY048001	1102
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D3R38	1104	D27C3	2020	D44C4	2020	D174	2041	D4636	2030	DDBY209003	2009
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D3U	1104	D28	1104	D44C6	2020	D176	2041	D4638	2030	DDBY219001	2058
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D4D20	2030	D28A10	2020	D44C14	2020	D183	2030	D4647	2020	DDBY235002	2058
D4D21	2030	D28A12	2020	D44H7	2020	D184	2020	D4648	2020	DDBY2361002	2058
D4D22	2016	D28A13	2020	D44H10	2020	D199	2055	D4649	2020	DDBY2362001	2016
D4D24	2009	D28D1	2020	D44H11	2020	D200(IR)	1122	D4650	2020	DDBY2362001	2016
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D4M	1104	D28D5	2020	D44M5	2020	D204L	2030	D4654	2020	DDBY277002	2059
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D5H	1104	D29E1	2023	D45C	1104	D227	2009	D4665	2020	DDBY4233001	2016
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D5V	1102	D29E5	2023	D49	2020	D227B	2009	D4668	2020	DDEY029001	1808
D5W	561	D29E6	2023	D56W1	2055	D227C	2009	D4669	2020	DDEY030001	1801
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D6HZ	1104	D29E8	2023	D65	2007	D227E	2009	D4671	2020	DDEY089001	2411
D6.2	561	D29F1	2023	D65C	1104	D227F	2009	D4672	2020	DDFY004002	1102
D7	1101	D29F2	2023	D66	2007	D227G	2009	D4673	2020	DDFY007001	1102
D7A30	2030	D29F3	2023	D67	2041	D227H	2009	D4674	2020	DDMV-1	1123
D7A31	2030	D29F4	2023	D67B	2041	D227I	2009	D4675	2020	DDMV-2	1123
D7A32	2030	D29F5	2023	D67C	2041	D227J	2009	D4676	2020	DE1A	1104
D7E	1102	D29F6	2023	D67D	2041	D227K	2009	D4677	2020	DE1A	1104
D7Z	1102	D29F7	2023	D67E	2041	D227L	2009	D4678	2020	DE1A	1104
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D10G1051	2010	D30A4	2023	D68D	2041	D227P	2009	D4682	2020	DE1A	1103
D10G1052	2010	D30A5	2023	D68E	2041	D227Q	2009	D4683	2020	DE1A	1103
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D11C1F1	2009	D32H8	2061	D73D	2041	D227S	2009	D4685	2020	DE1A	1103
D11C2D1820	2009	D32H9	2061	D77	1102	D227T	2009	D4686	2020	DE1A	1104
D11C3B1	2030	D32K1	2009	D77(DIODE)	1102	D227U	2009	D4687	2020	DE1A	1104
D11C3B1	2030	D32K2	2009	D81K	1104	D227V	2009	D4688	2020	DE1A	1104
D11C5F1	2009	D32P1	2016	D82A	2041	D227W	2009	D4689	2020	DE1A	1104
D11C7B1	2030	D32P2	2016	D85C	1114	D227X	2009	D4690	2020	DE1A	1104
D11C10B1	2030	D32P3	2016	D90	2020	D227Y	2009	D4691	2020	DE1A	1104
D11C11B1	2030	D32P4	2016	D91	2020	D227Z	2009	D4692	2020	DE1A	1104
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D12	2041	D32S2	2060	D92	2020	D234(Y)	2020	D4694	2020	DE1A	1104
D12X043	2061	D32S3	2060	D92D	2020	D235	2020	D4695	2020	DE1A	1104
D15A	1104	D32S4	2060	D100	1104	D235-R	2020	D4696	2020	DE1A	1104
D15C	1104	D32S5	2060	D101B	2007	D235-Y	2020	D4697	2020	DE1A	1104
D16E7	2009	D32S7	2060	D105B	2007	D235Y	2020	D4698	2020	DE1A	1104
D16E9	2009	D32S10	2060	D105C	1114	D235GR	2020	D4699	2020	DE1A	1104
D16E18	2009	D32W7	2061	D108	1114	D235R	2020	D4700	2020	DE1A	1104
D16G6	2010	D32W12	2009	D110	2041	D235R-OP	2020	D4701	2020	DE1A	1104
D16K1	2010	D33D28	2009	D110-0	2041	D235R-AFP	2020	D4702	2020	DE1A	1104
D16K2	2010	D34J1	2023	D110-R	2041	D235RBL	2020	D4703	2020	DE1A	1104
D16K3	2010	D34J2	2023	D110-Y	2041	D235Y	2023	D4704	2020	DE1A	1104
D16K4	2010	D34J4	2023	D111	2041	D236(RECT.)	1171	D4705	2020	DE1A	1104
D16P1	2060	D34J5	2023	D111-0	2041	D241H	2041	D4706	2020	DE1A	1104
D16P2	2060	D38H1	2009	D111-Y	2041	D257	2061	D4707	2020	DE1A	1104
D16P4	2060	D38H1-6	2009	D111-Y	2041	D257	2061	D4708	2020	DE1A	1104
D-18	562	D38H2	2009	D116	2041	D258	1123	D4709	2020	DE1A	1104
D18	1104	D38H3	2009	D118	2041	D258A	2020	D4710	2020	DE1A	1104
D22N	1114	D38H4	2061	D118BL	2041	D258B	2020	D4711	2020	DE1A	1104
D24A3391	2016	D38H5	2061	D118R	2041	D258C	2020	D4712	2020	DE1A	1104
D24A3391A	2016	D38H6	2061	D118Y	2041	D258D	2020	D4713	2020	DE1A	1104
D24A3392	2016	D38H7	2061	D119	2041	D258E	2020	D4714	2020	DE1A	1104
D24A3393	2016	D38H8	2061	D119BL	2041	D258F	2020	D4715	2020	DE1A	1104
D24A3394	2010	D38H9	2061	D119R	2041	D258G	2020	D4716	2020	DE1A	1104
D24A3900A	2016	D38S1	2009	D119Y	2041	D258H	2020	D4717	2020	DE1A	1104
D25	1104	D38S5	2009	D124(RECT.)	1104	D258I	2020	D4718	2020	DE1A	1104
D25A	1104	D38S9	2009	D124(T)RANSISTOR)	2041	D258J	2020	D4719	2020	DE1A	1104
D25B	1104	D38V1	2061	D133	2009	D258K	2020	D4720	2020	DE1A	1104
						D258L	2020	D4721	2020	DE1A	1104
						D258M	2020	D4722	2020	DE1A	1104

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DI-8(DIODE)	1123	DR351	1123	DS-16YA	1104	DS77	2009		E044A	2007	E1011	1104
DI-20	1102	DR352	1123	DS-17	1104	DS-78	2009	DT161	E-065	2007	E1018N	1104
DI-42S	1104	DR365	1123	DS17	1104	DS78	2016	DT230A	E-066	2007	E1031RXT	1123
DI42S	1104	DR385	1123	DS17(ADMIRAL)	1104	DS-79	1104	DT230F	E066	2007	E1121R	1102
DI-46	1104	DR400	1104	DS-17(SANYO)	1104	DS79	1104	DT230G	E-067	2007	E1124	1104
DI46	1104	DR426	1123	DS-17-6A	1104	DS-79(DELCO)	1104	DT1110	E067	2007	E1138R	1102
DI-52S	1104	DR427	1104	DS17N	1104	DS-81	2058	DT1111	E-068	2007	E1143RD	1114
DI52S	1104	DR434	1123	DS-18	1104	DS81	2016	DT1112	E068	2007	E1146J	1104
DI-55	1104	DR435	1104	DS18	1104	DS-82	2023	DT1120	E-070	2007	E1146R	1104
DI-56	1104	DR449	1123	DS-18(GE)	1104	DS82	2023	DT1121	E070	2007	E1153RB	1104
DI56	1104	DR464	1123	DS-18(SANYO)	1104	DS-83	2023	DT1122	E-075L	1104	E1156RD	1104
DI-71	1104	DR500	1104	DS18(SEARS)	1104	DS83	2023	DT1311	E075L	1104	E1157RNA	1104
DI-72S	1104	DR600	1104	DS18N	1104	DS-85	2016	DT1321	E0105	2007	E1229R	1103
DI72S	1104	DR668	1104	DS-19	2007	DS85	2016	DT1510	E0704-W	1104	E1237RF	1104
DI-172S	1104	DR669	1104	DS19	1104	DS-94	2059	DT1511	E-0704W	1104	E1286R	1103
DI-64S	1104	DR670	1104	DS-19(RECTIFIER)	1104	DS-97	1102	DT1512	E0704W	1144	E1304R	1114
DI64S	1104	DR671	1104	DS-19(SANYO)	1104	DS97	1102	DT1520	E0771-3	562	E1315R	1114
DI-646	1104	DR695	1104	DS21	2007	DS97(DELCO)	1102	DT1521	E0771-7	563	E1324R	1103
DI646	1104	DR698	1104	DS22	2007	DS99	562	DT1522	E0788-C	1104	E1339R	1104
DI-647	1104	DR699	1104	DS22	2007	DS104	1102	DT1610	E0789C	1104	E1410	1104
DI-648	1104	DR700	1114	DS23	2007	DS-107	565	DT1621	E-01381	2030	E1411	1104
DI-649	1104	DR800	1114	DS-24	2007	DS-108	563	DT4011	E03155-001	1104	E1412	1104
DI-650	1114	DR826	1104	DS24	2007	DS-113	1103	DT4110	E03155-002	1104	E1412R	1104
DI650	1114	DR848	1104	DS-25	2007	DS-117	1102	DT4111	E1	1104	E1413	1104
DI-705	1104	DR863	1104	DS25	2007	DS117	1102	DT4120	E1A	2010	E1413R	1104
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DI1649	1104	DR1000	1114	DS-27	1123	DS118B	1144	DTN206	E1M3	1114	E1440	1104
DICR1	1114	DR1100	1104	DS27	1123	DS-130	1104	DT5013	E1N3	1114	E1704R	1114
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DIE	1104	DR5101	1104	DS29	2007	DS-130B	1104	DT50713	E3	1104	E1852	563
DJ1	1104	DR5102	1104	DS31	1102	DS130B	1104	DT5-403	E5	1104	E2412	2007
DJ461224	1123	DR-104532	1000	DS-31(DELCO)	1102	DS-130C	1104	DT5-409	E6	1104	E2430	2009
DJ70486	1102	DR-81252	2007	DS31(DELCO)	1123	DS130C	1104	DT5-431	E8	1114	E2431	2009
DJ70488	1104	DR-87540	2009	DS-32	1123	DS130D	1104	DT5-431M	E9	1114	E2434	2010
DJ70542	1123	DR51	1104	DS32	1123	DS-130E	1104	DT5701	E10	1114	E2435	2010
DJ70544	1104	DR52	1114	DS-33	1123	DS130E	1104	DT5-702	E13-000-03	2009	E2436	2009
DJ70545	1102	DR5101	1104	DS33	1123	DS130NA	1114	DT5702	E13-000-04	2009	E2438	2007
DJ70545	1123	DR5102	1104	DS33(DELCO)	1123	DS130NB	1104	DT5-704	E13-001-02	2023	E2439	2007
DJ70646	1123	DR5104	1104	DS-34	2007	DS130NC	1104	DT5704	E13-001-03	2023	E2440	2007
DJ70695	1104	DR5106	1104	DS34	2007	DS130ND	1104	DT5-708	E13-001-04	2023	E2441	2030
DJ71273	1102	DR5107	1114	DS-35	2007	DS130NE	1104	DT5-709	E13-002-03	2009	E2444	2009
DJ71711	1102	DR5108	1114	DS35	2007	DS130Y	1104	DT5-710	E13-003-00	2009	E2445	2007
DJ71776	1123	DR5110	1114	DS-36	2007	DS-130YB	1104	DT5-712	E13-003-01	2009	E2448	2007
DJ71958	1104	DS-0065	1104	DS36	2007	DS130YC	1104	DT5-714	E13-004-00	2009	E2449	2030
DJ71959	1104	DS0065	1104	DS-37	2007	DS-130YE	1104	DT5-723	E13-005-02	2009	E2450	2007
DJ71960	1102	DS1	1104	DS37	2007	DS130YE	1104	DT5802	E13-006-02	2023	E2451	2007
DJ72164	1102	DS1-002-0	1102	DS-38	1104	DS-131	1104	DT5804	E13-009-00	2055	E2452	2009
DJ72165	562	DS1B	2009	DS38	2007	DS131	1104	DT53704	E13-013-03	1101	E2453	2007
DJ72166	1123	DS-1K	1114	DS38(CRAIG)	1104	DS-131A	1104	DT53704A	E13-013-04	1101	E2454	2009
DJ72168	1104	DS1K	1104	DS38(DELCO)	2007	DS131A	1104	DT53704B	E13-017-01	1102	E2455	2009
DJ72292	1114	DS1K7	1104	DS38(SANYO)	1104	DS-131B	1104	DU1	E13-020-00	1104	E2459	2009
DJ72293	561	DS-1M	1104	DS-39	1123	DS131B	1104	DU2	E13-20-00	1104	E2461	2009
DJ72294	1123	DS1M	1114	DS-41	2007	DS-132	1104	DU3	E14C350	1104	E-2462	2007
DJ72349	1123	DS1N	1104	DS41	2007	DS-132A	1104	DU5	E20C30	1123	E2462	2007
DIK	1114	DS-1P	1104	DS-42	2007	DS132A	1104	DU12	E21	1104	E2464(PNP)	2007
DIL	1104	DS1P	1104	DS42	2007	DS-132B	1104	DU400	E25C5	1104	E-2465	2007
DIS-1S	1104	DS-1U	1101	DS-43	562	DS132B	1104	DU600	E30C60	1123	E2465	2007
DIS1S	1104	DS-1.5-2	1114	DS43	562	DS133A	1104	DU800	E-41	1104	E2467	2007
DK19	1123	DS2K	1104	DS-44	2009	DS135F	1104	DU1000	E41	1104	E2474	2007
DK20	1123	DS2M	1114	DS44	2009	DS159	561	DW-7655	E102	2062	E2475	2007
DK21	1123	DS-2N	1114	DS-45	2009	DS160(G.E.)	1104	DW6034/M	E102(ELCOM)	1104	E2476	2007
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DM7400	1801	DS2N22	1104	DS-46	2009	DS330A	1104	DW-6505	E106(ELCOM)	1104	E2478	2007
DM7400J	1801	DS2P	1144	DS46	2009	DS330B	1104	DW-6982	E108(ELCOM)	1114	E2479	2007
DM7400N	1801	DS3	2007	DS-47	2009	DS-410	1102	DW-7375	E125C200	1104	E2480	2007
DM7401J	1801	DS58N-L	1104	DS47	2009	DS410	1102	DW-7655-LV00223	E132	2007	E2481	2007
DM7401N	1801	DS-8	2007	DS48	562	DS-410(AMPEX)	1102	DX-0007	E135	1104	E2482	2007
DM7404N	1802	DS-10	1104	DS-51	2007	DS410(COURIER)	1102	DX-0079	E143	1104	E2486	561
DM7408J	1822	DS-13	1104	DS51	2007	DS410(EMERSON)	1102	DX-0080	E146	1104	E-2491B	2030
DM7408N	1822	DS13	2007	DS-52	2007	DS410(FANON)	1102	DX-0087	E150L	1104	E2496	2020
DM7447A.N	1805	DS-13(COURIER)	1104	DS52	2007	DS410(G.E.)	1123	DX-0099	E-158	2007	E2497	2009
DM7447N	1805	DS-13A(SANYO)	1104	DS-53	2007	DS-410(MOTOROLA)	2009	DX-0161	E158	2007	E2499	2009
DM7490	1806	DS13B	1144	DS53	2007	DS410(OLYMPIC)	1102	DX-0162	E-167-228	2030	E3006	1104
DM7490J	1806	DS-13B(SANYO)	1104	DS-54	2007	DS410(WESTINGHOUSE)	1102	DX-0241	E181	2007	E4676B	1104
DM7490N	1808	DS-14	2007	DS54	2007	DS410R	1102	DX-0253	E181A	2007	E7441	1104
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DN20-00453	2030	DS-14(DIODE)	1104	DS-60	2060	DS410R(G.E.)	1123	DX-0270	E181C	2007	E10116	1104
DND800	1102	DS-14(SANYO)	1101	DS-62	2007	DS-430	1104	DX-0273	E181D	2007	E10157	1104
DO19	2007	DS15A	1114	DS62	2007	DS430	1104	DX-0299	E-185B121712	2030	E10171	1104
DO31	2009	DS15C	1102	DS-63	2007	DS430	1104	DX-0398	E202(ELCOM)	1114	E10172	1104
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DO78	2007			DS-65	2007	DS-442(SEARS)	1102	DX-0721	E213	2023	E24101	1114
DO79	2007	DS-16A	1104	DS65	2007	DS442FM	1102	DX-0725	E214B	2007	E24103	2009
DO86	2007	DS16A	1104	DS-66	2009	DS443	1102	DX-0728	E241	2007	E24104	2007
DO87	2010	DS-16A(SANYO)	1114	DS66	2009	DS448	1103	DX-0987	E241A	2007	E24106	2007
DP13800-2	1151	DS-16B(SANYO)	1104	DS-66W	2009	DS-509	2041	DX520	E241B	2007	EA0002	2007
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DP13804-2	1103	DS16C	1104	DS67	2009	DS-512	2030	DX-1039	E295ZZ01	1123	EA0009	2007
DP100	1114	DS-16C(SANYO)	1104	DS-67W	2009	DS512	2030	DX-1131	E300L	1104	EA0005	1104
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EA060	1104	EA15X136	2009	EA15X7263	2010	EA1318	563	EB3(ELCOM)	1171	ECG1232	703
EA080	1114	EA15X137	2009	EA15X7264	2010	EA1337	2007	EB4(ELCOM)	1173	ECG3007	026
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EA15X72	2009	EA15X376	2058	EA16X75	1102	EA2498	2007	ECG261	2068	ECG5651	1001
EA15X73	2009	EA15X379	2009	EA16X77	563	EA2499	1104	ECG280	2041	ECG5652	1000
EA15X75	2009	EA15X386	2016	EA16X80	561	EA2500	563	ECG281	2043	ECG5800	1141
EA15X75CL	2059	EA15X393	2058	EA16X82	562	EA2501	1104	ECG287	2061	ECG5801	1143
EA15X76	2009	EA15X395	2023	EA16X84	1102	EA2502	1123	ECG289	2059	ECG5802	1143
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EA15X83	2009	EA15X441	2009	EA16X101	1102	EA2603	2010	ECG291	2020	ECG7400	1801
EA15X84	2009	EA15X1014	2009	EA16X110	1102	EA2604	2010	ECG331	2020	ECG7401	1801
EA15X84CL	2059	EA15X1710	2020	EA16X122	1103	EA2605	2010	ECG377	2020	ECG7404	1802
EA15X85	2009	EA15X2015	2010	EA16X124	564	EA2607	1102	ECG399	2061	ECG7408	1822
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EA15X91	2009	EA15X7112	2009	EA16X146	1102	EA2770	2009	ECG552	1104	ED2(ELCOM)	1124
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EA15X96	2009	EA15X7118	2009	EA16X171	1102	EA3127	1123	ECG746	1758	ED4(ELCOM)	1123
EA15X98	2009	EA15X7119	2009	EA16X441	1123	EA3149	2009	ECG747	1757	ED-5	1104
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EA15X101	2009	EA15X7125	2010	EA33X8396	705	EA3447	1102	ECG823	1731	ED6	1104
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EDG-0003	1123	EM406	1104	EP15X48(NPN)	2009	EQA01-12	563	ER183	1104	ES15X66	2010
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EH2C11	1104	EN918	2010	EP16X4	1102	EQS-0192	2059	ERB24-06B	1104	ES15X125	2020
EH2C11/7+12/1	1104	EN930	2009	EP16X5	564	EQS-0196	2009	ERB24-06C	1104	ES15X127	2059
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ET350335	2023	EYV-320DIR2J	1102	F361	2030	FBN-L115	2030	FD1599	1104	FR1MD	1104
ET352146	2059	EYV-420DIR5JA	1104	F366	2009	FBN-L148	2030	FD1708	1102	FR1N	1104
ET368021	2009	EYV420DIR5JB	1123	F501	2016	FBTX070	2030	FD1843	1102	FR1P	1104
ET379262	2016	EYV420DIR5JB	1123	F501(ZENITH)	2016	FC5006	2010	FD1980	1123	FRIP	1104
ET379462	2016	EY2P-384	1102	F501-16	2016	FCD0003PC	1102	FD3389	1104	FR1U	1104
ET380834	2016	EY2P-546	2023	F502	2016	FCD0014NC5	1102	FD3405	1101	FR1U	1104
ET398711	2016	EY2P-623	2023	F502(ZENITH)	2016	FC916F	2058	FD6451	1102	FR-2	1104
ET398777	2016	EY2P623	2023	F523	2016	FC1168E	2010	FD6489	1102	FR2	1104
ET412626	2009	EY2P-632	2009	F531	2009	FC1168E641	2010	FDH-9	1102	FR2(S1B1)	1104
ET517263	2016	EY2P632	2009	F549-1	2023	FC1168F813	2009	FDH400	1104	FR2-02	1104
ET517994	2016	EY2P-791	2009	F572-1	2009	FC1168G	2009	FDH444	1103	FR2-02(DIO)	1104
ETD-1N60	1123	EY2P791	2009	F587	2009	FC1168G704	2009	FDH666	1102	FR2-02C	1104
ETD152788	1102	EY2P-808	2023	F625-1	2030	FC1170F	2023	FDH694	1102	FR2-06	1114
ETD-10D1	1104	EY2P808	2023	F699	2023	FC1225E	2010	FDH900	1102	FR2-020	1104
ETD-10D2	1104	EZ9(ELCOM)	562	F2427	2010	FC1227E	2010	FDH999	1103	FR2-0Z	1104
ETD-5046	1123	EZ12(ELCOM)	563	F2443	2009	FC1227F814	2010	FDH6229	1102	FR2-0Z	1104
ETDCDG21	1102	EZ15(ELCOM)	564	F2448	2009	FC1227F	2010	FDH1006	1102	FR-2M	1104
ETD-RD9.1FB	562	EZ150	564	F2450	2010	FC1227F743	2010	FDH1007	1102	FR2M	1104
ETD-S046	1123	F-05	1104	F2480	2007	FC1227G	2010	FDH600	1102	FR-2P	1104
ETD-SC9150	1102	F05	1104	F2584	2009	FC1227G810	2010	FDH666	1102	FR2P	1104
ETD-V06C	1104	F1	1104	F2633	2010	FC1229	2030	FG-2NA	1104	FR2PC	1144
ETI-23	705	F2	1104	F2634	2010	FC1229F	2009	FG79	2016	FR-10	1114
ETS-003	2041	F3	1104	F2636	2010	FC1229G	2009	FG-12377	1102	FR10	1104
ETS-005	2041	F4	1104	F3519	2009	FC1229G	2009	FG-12377	1102	FR10	1104
ETS-068	2009	F5	1104	F3530	2010	FC1229G	2009	FG-12377	1102	FR10	1104
ETS-070	2030	F6	1104	F3532	2009	FC1229G	2009	FG-12377	1102	FR10	1104
ETTB-25B176	2007	F8	1114	F3535	2016	FC1229G	2009	FG-12377	1102	FR10	1104
ETTB-25B176A	2007	F10	1114	F3559	2023	FC1229G	2009	FG-12377	1102	FR10	1104
ETTB-25B176B	2007	F14	1104	F3560	2030	FC1229G	2009	FG-12377	1102	FR10	1104
ETTB-25B176R	2007	F14-C	1104	F3561	2030	FC1229G	2009	FG-12377	1102	FR10	1104
ETTB-751B	2007	F14A	1104	F3565	2030	FC1229G	2009	FG-12377	1102	FR10	1104
ETTC-459LG	2009	F14AP	1104	F3569	2009	FC1229G	2009	FG-12377	1102	FR10	1104
ETTC-930D	2058	F14B	1114	F3570	2023	FC1229G	2009	FG-12377	1102	FR10	1104
ETTC-945	2016	F14BP	1104	F3571	2009	FC1229G	2009	FG-12377	1102	FR10	1104
ETTC-CD8000	2009	F14C	1104	F3574	2016	FC1229G	2009	FG-12377	1102	FR10	1104
ETTC-CD12000	2009	F14C	1114	F3589	2030	FC1229G	2009	FG-12377	1102	FR10	1104
ETTC-CD13000	2009	F14CP	1104	F3590	2023	FC1229G	2009	FG-12377	1102	FR10	1104
ETT-CD12000	2009	F14D	1114	F3597	2023	FC1229G	2009	FG-12377	1102	FR10	1104
ETTD-235	2020	F14E	1114	F4001	2401	FC1229G	2009	FG-12377	1102	FR10	1104
ETX18	2009	F14F	1114	F4011	2411	FC1229G	2009	FG-12377	1102	FR10	1104
EU1	1104	F14H	1114	F4011PC	2411	FC1229G	2009	FG-12377	1102	FR10	1104
EU-2	1104	F14J	1114	F4013	2413	FC1229G	2009	FG-12377	1102	FR10	1104
EU15X1	2010	F16H1	561	F4017	2417	FC1229G	2009	FG-12377	1102	FR10	1104
EU15X2	2010	F20-1001	2010	F4023	2423	FC1229G	2009	FG-12377	1102	FR10	1104
EU15X3	2010	F20-1002	2010	F4049	2449	FC1229G	2009	FG-12377	1102	FR10	1104
EU15X4	1124	F20-1003	2010	F4049PC	2449	FC1229G	2009	FG-12377	1102	FR10	1104
EU15X6	2010	F20-1004	2010	F4706	2010	FC1229G	2009	FG-12377	1102	FR10	1104
EU15X27	2030	F20-1005	2010	F4709	2030	FC1229G	2009	FG-12377	1102	FR10	1104
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EU16X7	1104	F20-1010	1123	F9623(G.E.)	2010	FC1229G	2009	FG-12377	1102	FR10	1104
EU16X8	1101	F20-1012	1123	F9623F	2009	FC1229G	2009	FG-12377	1102	FR10	1104
EU16X11	1102	F20-1013	1123	F9625	2010	FC1229G	2009	FG-12377	1102	FR10	1104
EU16X14	1124	F20-1014	1123	F10124	1104	FC1229G	2009	FG-12377	1102	FR10	1104
EU16X20	1104	F20-1015	1104	F10148	1104	FC1229G	2009	FG-12377	1102	FR10	1104
EU57X30	1104	F20-1016	1104	F10180	1104	FC1229G	2009	FG-12377	1102	FR10	1104
EU57X38	1101	F24T-011-013	2010	F11034	1114	FC1229G	2009	FG-12377	1102	FR10	1104
EU57X40	1104	F24T-011-015	2058	F15810	2010	FC1229G	2009	FG-12377	1102	FR10</	

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FX3013	2058	G05-413D	2009	G820	1123	GC1150	2007	GE-220	2061	GES5448	2023
FX3014	2058	G05-706-D	2016	G821	1123	GC1155	2007	GE-222	2061	GES5449	2023
FX3300	2009	G05-706-E	2016	G822	1123	GC1159	2007	GE-237	2055	GES5450	2009
FX3502	2061	G01036	562	G823	1123	GC1182	2007	GE-238	2055	GES5451	2009
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FX4046	2009	G01036G	562	G825	1123	GC1184	2007	GE-243	2030	GES5813	2023
FZ5.1T5	565	G01209	1102	G844	1123	GC1186	2007	GE-245	2007	GES5814	2009
FZ5.1T10	565	G01209B	1102	G845	1123	GC1187	2007	GE-259	2055	GES5815	2023
FZ6.2T10	561	G01211	1104	G846	1123	GC1257	2007	GE-262	2041	GES5816	2009
FZ6.5T10	561	G01803	1102	G847	1123	GC1302	2007	GE-263	2043	GES5817	2023
FZ12A	563	G01803A	1102	G868	1123	GC1422	2007	GE-268	2059	GES5818	2009
FZ12T5	563	G03007	2023	G869	1123	GC1573	2007	GE-269	2023	GES5819	2023
FZ12T10	563	G04041B	2010	G-1010	1123	GC1615-1	2030	GE-300	1102	GES5821	2023
FZ15A	564	G05004A	2010	G1010	1123	GC4022	2007	GE-327	2058	GES5822	2023
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FZ15T10	564	G05035D	2016	G1242	1104	GC5000	2007	GE414	1102	GES5824	2009
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G00-536A	1104	G6	1104	GC34	2007	GD74E/4	1123	GE-7447	1805	GET-103	2007
G00-543-A	1104	G7	1124	GC35	2007	GD74E/5	1123	GE-7490	1808	GET103	2007
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G004	2007	G7E	1123	GC181	2007	GD400	1123	GE-CR3	1101	GET-113A	2007
G005-036C	2009	G7F	1123	GC182	2007	GD401	1123	GE-CR3	1101	GET113A	2007
G005-036E	2009	G7G	1123	GC250	2007	GD402	1123	GEDO58850	1123	GET-114	2007
G0010	2007	G8	1114	GC282	2007	GD403	1123	GEIC-2	1759	GET114	2007
G00502A	1104	G9.1T5	562	GC283	2007	GD404	1123	GEIC-31	706	GET671	2007
G00535	1104	G9.1T10	562	GC284	2007	GD405	1123	GEIC-147	1759	GET-672	2007
G00535A	1104	G9.1T20	562	GC343	2007	GD406	1123	GEIC-148	1759	GET672	2007
G01	1104	G10	1114	GC360	2007	GD409	1123	GEIC-179	705	GET-672A	2007
G01-036-G	562	G11	2007	GC387	2007	GD-510	1102	GEIC-190	1770	GET672A	2007
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G01-037-A	563	G12T10	563	GC408	2007	GD663	1123	GEIC-218	1757	GET691	2007
G01-083-A	1102	G12T20	563	GC460	2007	GD1001	1123	GEIC-220	038	GET-692	2007
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G01-803A	1102	G15T20	564	GC520	2007	GE-IN506	1104	GE-M100	2007	GET871	2007
G01A	1124	G23-45	2041	GC521	2007	GE-IN5061	1104	GE-MR-5	1067	GET872	2007
G02	1104	G23-46	2030	GC532	2007	GE-2	2007	GER4001	1114	GET873	2007
G02A	1124	G23-67	2041	GC551	2007	GE-6GX1	1101	GER4002	1114	GET-873A	2007
G03-407-Y	2023	G23-76	2041	GC552	2007	GE6.2	561	GER4003	1114	GET873A	2007
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G05-035-D	2009	G157	1123	GC680	2007	GE-19	2041	GES929	2009	GET888	2007
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G05-035D	2016	G182AG	1124	GC733B	2007	GE-37	2055	GES2221A	2009	GET891	2007
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G05-036-C	2009	G200	1123	GC856	2007	GE42.7	1104	GES2483	2009	GET896	2007
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G05-036-E	2009	G222	1104	GC1003	2007	GE-51	2007	GES2906	2023	GET898	2007
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G05-036C	2009	G297	1123	GC1005	2007	GE-60	2016	GES3565	2009	GET929	2030
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G05-036E	2009	G498	1123	GC1007	2007	GE-62	2016	GES3567	2061	GET931	2007
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G05-064-A	2009	G788	1123	GC1143	2007	GE129	2010	GES3571	2009	GET3563	2009
G05-065-A	2058	G789	1123	GC1144	2009	GE-130	2023	GES3572	2023	GET3638	2023
G05-066A	2058	G790	1123	GC1145	2007	GE-208	2007	GES3573	2023	GET3638A	2023
G05-413A	2059	G814	1123	GC1146	2007	GE-210	2009	GES3574	2023	GET3646	2009
G05-413B											

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GI-3641	2009	GMO378	2007	GSM452	1104	GT2883	2007	H20052	1104	HA7633	2023
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GI-3643	2009	GMO385	1104	GSM482	1104	GT5116	2007	HA-00102	2007	HA7808	2023
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GI-3703	2023	GO5-010-A	2009	GT11	2007	GTE1	2007	HA-00699	2027	HA9055	2061
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GI-3708	2009	GO5-036C	2009	GT20	2007	GU-1	1104	HA52	2007	HA9532A	2061
GI-3709	2016	GO5-036D	2030	GT-20H	2007	GU-1A	1104	HA-53	2007	HA9532B	2023
GI-3709	2009	GO5-036E	2009	GT20H	2007	GU-1Z	1104	HA53	2007	HA11107	1759
GI-3710	2016	GO5-037B	2009	GT20R	2007	GU-3	1104	HA54	2007	HA17559PS	1723
GI-3710	2009	GO5-050-C	2009	GT24H	2007	GU-3A	1104	HA56	2007	HA17723	1740
GI-3711	2016	GO5-055-D	2030	GT31	2007	GU-3SZ	1143	HA70	2007	HA17805P	1770
GI-3711	2009	GO5-413A	2030	GT32	2007	GU-3Z	1104	HA100	1104	HAM-1	2007
GI-3721	2016	GO1036	562	GT33	2007	GV5760	1102	HA-101	1104	HAR10	1104
GI-3793	2061	GO1209	1102	GT34	2007	GV6063	2009	HA102	2007	HAR15	1104
GI-3793	2016	GO1211	1102	GT-34HV	2007	GVL20077	2009	HA103	2007	HAR20	1104
GI-3794	2061	GO1803	1102	GT34HV	2007	GVL20226	1103	HA104	2007	HB-00054	2007
GI-3900	2016	GO3007	2023	GT-34S	2007	GVL20265	1103	HA200	1104	HB-00056	2007
GI-3900A	2016	GO3014	2023	GT34S	2007	GVL20327-1	1103	HA-201	2007	HB-00186	2007
GI-392-17	1104	GO5036	2009	GT40	2007	GXI5.1	565	HA201	2007	HB-00171	2007
GI-P100-D	1104	GO5059	2009	GT41	2007	GXI6.2	561	HA202	2007	HB-00172	2007
GIP100-D	1114	GO5705	2020	GT42	2007	GXI9.1	562	HA-234	2007	HB-00173	2007
GIP100D	1104	GOO-003-A	1123	GT43	2007	GXI12G	563	HA234	2007	HB-00175	2007
GI-TV3C	1101	GOO-004-A	1123	GT44	2007	GXI15	564	HA-234B	2007	HB-00176	2007
GJ4M	1104	GOO-008-A	1123	GT45	2007	GZ1-5.1	565	HA235	2007	HB-00178	2007
GLA47	565	GOO-009-A	1123	GT46	2007	GZ1-6.2	561	HA-235A	2007	HB-00186	2007
GLA47A	565	GOO-012-A	565	GT47	2007	GZ1-9.1	562	HA235A	2007	HB-00187	2007
GLA51	565	GOO-013-B	1123	GT-46	2007	GZ1-12G	563	HA-235C	2007	HB-00303	2007
GLA51A	565	GOO-014-A	565	GT74	2007	GZ1-15	564	HA240	2007	HB-00370	2007
GLA51B	565	GOO-502-A	1104	GT75	2007	GZ6.2	561	HA266	2007	HB2	1104
GLA62	561	GOO-535-B	1144	GT81	2007	H087	1123	HA267	2007	HB3	1104
GLA62A	561	GOO-536A	1144	GT-81H	2007	H089	563	HA-268	2007	HB-32	2007
GLA62B	561	GOO-543-A	1144	GT81H	2007	H091	1123	HA268	2007	HB32	2007
GLA91	562	GP05A	1104	GT-81HS	2007	HJ-00005	563	HA-269	2007	HB-33	2007
GLA91A	562	GP08B	1104	GT81HS	2007	HJ-00008	1104	HA269	2007	HB33	2007
GLA91B	562	GP08D	1104	GT81R	2007	HJ-00012	562	HA300	1104	HB-54	2007
GMO290	2007	GP-1	1104	GT82	2007	HJ-00018	1104	HA321J	2007	HB54	2007
GMO375	2007	GP1	1104	GT-83	2007	HIV	2010	HA-330	2007	HB55	2007
GMO376	2007	GP2-345	1102	GT83	2007	H10	2007	HA330	2007	HB-56	2007
GMO377	2007	GP2-345/MA161	1102	GT-87	2007	H50	1104	HA342	2007	HB56	2007
GMO378	1173	GP20C	1104	GT87	2007	H100	1104	HA-350	2007	HB-75	2007
GMO380	2010	GP-25B	1104	GT-88	2007	H102	2009	HA350	2007	HB75	2007
GM-1	1114	GP25G	1114	GT88	2007	H104	2009	HA-350A	2007	HB-75B	2007
GM-1A	1114	GP139	2007	GT100	2007	H109	1114	HA-353	2007	HB75B	2007
GM-1B	1114	GP139A	2007	GT-109	2007	H123SH	1001	HA353	2007	HB75C	2007
GM-1C	1114	GP139B	2007	GT109	2007	H200	1104	HA-353C	2007	HB-77	2007
GM1J2	1114	GP230	1104	GT109R	2007	H300	1104	HA-354	2007	HB77	2007
GM-1Z	1114	GP250	1104	GT122	2007	H316	1123	HA354	2007	HB77B	2007
GM-3	1114	GP252	1114	GT123	2007	H400	1104	HA-354B	2007	HB-77C	2007
GM-3A	1114	GP-354	1123	GT132	2007	H410	1101	HA400	1104	HB77C	2007
GM-3B	1114	GP2354	1123	GT-153	2007	H442	2010	HA471	2007	HB-86	2007
GM-3Y	1114	GP2364	1123	GT153	2007	H475	1104	HA500	1104	HB-156	2007
GMSY	1114	GPM1NA	1123	GT-210H	2007	H500	1104	HA505	2027	HB156	2007
GM-3Z	1114	GPM1NB	1123	GT210H	2007	H585	1104	HA525	2007	HB156C	2007
GMSZ	1114	GPM1NC	1123	GT222	2007	H600	1104	HA600	1104	HB171	2007
GMS290	2007	GPM2NA	1123	GT-269	2007	H614	1123	HA800	1114	HB-172	2007
GMS290A	2041	GRASS-R2982	2041	GT269	2007	H616	1104	HA1000	1114	HB172	2007
GMS308	2016	GS73E/3	1123	GT751	2007	H617	1104	HA1040	2007	HB-173	2007
GMS378	2007	GS2012G	2020	GT758	2007	H618	1104	HA1124	1759	HB-175	2007
GMS378A	2007	GS2012H	2020	GT-759	2007	H619	1104	HA1124D	1759	HB175	2007
GMS378RED	2007	GS2052G	2027	GT759	2007	H620	1104	HA1124DS	1759	HB176	2007
GMS380	2007	GS2052H	2027	GT-759R	2007	H621	1114	HA1124S	1759	HB178	2007
GMS46A	2007	GS2053-G	2027	GT759R	2007	H623	1102	HA1124Z	1759	HB-186	2007
GM760	2023	GS9011F	2009	GT-760	2007	H624	1123	HA1125	1759	HB186	2007
GM-770	2010	GS9011I	2009	GT760	2007	H625	1104	HA1125#	1759	HB-187	2007
GM770	2010	GS9012H	2023	GT-760R	2007	H626	1104	HA1125A	1759	HB187	2007
GM875	2007	GS9012I	2023	GT760R	2007	H781	1104	HA1128	1759	HB263	2007
GM876	2007	GS9012J	2023	GT-761	2007	H783	1104	HA1141	1759	HB270	2007
GM877	2007	GS9014	2009	GT761	2007	H800	1114	HA1154	1759	HB-415	2007
GM878	2007	GS9014H	2009	GT-761R	2007	H-881	1114	HA1390	2007	HB422	2007
GM878A	2007	GS9014I	2009	GT761R	2007	H881	1104	HA1360	2007	HB-459	2007
GM878B	2007	GS9014J	2009	GT-762	2007	H889	1102	HA2190	2007	HB459	2007
GME040-1	2023	GS9014K	2009	GT762	2007	H890	1101	HA2356	2007	HB-461	2007
GME1001	2009	GS9015H	2023	GT-762R	2007	H891	1104	HA3210	2007	HBC4001AD	2401
GME1002	2009	GS9015I	2023	GT762R	2007	H931	2009	HA3480	2007	HBC4001AF	2401
GME2001	2009	GS9015J	2023	GT-763	2007	H933	2009	HA3670	2007	HBC4001AK	2401
GME2002	2009	GS9018-G	2009	GT763	2007	H934	2009	HA4400	2007	HBC4001AD	2411
GME3001	2010	GS9018F	2009	GT-764	2007	H1000	1114	HA7206	2061	HBC4011AF	2411
GME3002	2010	GS9019H	2061	GT764	2007	H1017A	1144	HA7207	2061	HBC4011AK	2411
GME4001	2009	GS9019I	2061	GT766	2007	H-1567	2009	HA7901	2023	HBC4013AD	2413
GME4002	2009	GS9022F	2023	GT766A	2007	H1567	2009	HA7902	2023	HBC4013AF	2413
GME4003	2009	GS9022G	2023	GT832	2007	H7126-3	1104	HA7906	2023	HBC4013AK	2413
GME6001	2010	GS9023H	2009	GT1223	2007	H8287	1123	HA7507	2023	HBC4017AD	2417
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GME9002	2010	GS9033H	2061	GT1607	2007	H8513D	1123	HA7536	2023	HBC4023AF	2423
GME9021	2010	GS9033I	2061	GT1644	2023	H9423	2009	HA7537	2023	HBC4023AK	2423
GME9022	2010	GS9033J	2061	GT1665	2007	H9618	2009	HA7538	2023	HB4001	2401
GMO290	2007	GSC2052G	2027	GT2693	2007	H9623	2009	HA7543	2023	HB4001A	2401
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HC448	2010	HD2000703	1104	HEP157	1104	HEPR0052	1104	HF0W05	1104	HJ34A	2007
HC670	1104	HD2000803	1104	HEP158	1104	HEPR0053	1104	HF-15334	562	HJ37	2007
HC680	1104	HD2000903	1104	HEP159	1114	HEPR0054	1104	HF-15339	562	HJ41	2007
HC700	1104	HD2001105	1102	HEP160	1114	HEPR0055	1114	HF2	2009	HJ43	2007
HC710	1104	HD2001310	1104	HEP161	1141	HEPR0056	1114	HF3	2009	HJ50	2007
HC720	1114	HD3000101-0	563	HEP162	1143	HEPR0070	1143	HF3H	2007	HJ51	2007
HC730	1114	HD-3000301	1104	HEP166	1101	HEPR0071	1143	HF3M	2007	HJ54	2007
HC-772	2009	HD3000401	562	HEP170	1114	HEPR0072	1144	HF4	2009	HJ55	2007
HC772	2010	HD3001109	564	HEP175	1171	HEPR0080	1114	HF5	2009	HJ56	2007
HC784	2010	HD3002409	563	HEP177	1173	HEPR0081	1114	HF6	2009	HJ57	2007
HC829	2010	HD3003309	565	HEP243	2030	HEPR0082	1114	HF6H	2007	HJ60	2007
HC-50102	1067	HD4000109	1123	HEP247	2041	HEPR0084	1114	HF6M	2007	HJ60A	2007
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HCC4011BD	2411	HD20000703	1104	HEP280	2007	HEPR0094	1114	HF12H	2007	HJ606	2007
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HCC4013BD	2413	HD20001210	1103	HEP602	565	HEPR0098	1114	HF17	2016	HKT-161	2009
HCC4013BF	2413	HD20003010	1104	HEP607	564	HEPR0170	1114	HF20H	2007	HL18998	1801
HCC4013BK	2413	HD20005100	1114	HEP629	2007	HEPR0180	1114	HF20M	2007	HL19000	1802
HCC4017BD	2417	HD20007030	1104	HEP630	2007	HEPR0700	1124	HF22	2041	HL19015	1808
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HCF4011BE	2411	HE-1N34A	1123	HEP638	2007	HEPR0852	1152	HF57	2020	HM12	563
HCF4011BF	2411	HE-1N60	1123	HEP639	2007	HEPR0855	1173	HF58	2027	HM12A	563
HCF4013BE	2413	HE-1N60P	1123	HEP640	2007	HEPR1001	1067	HF-10024	1123	HM12B	563
HCF4013BF	2413	HE-15188	1123	HEP704	2041	HEPR1002	1067	HF-20004	562	HM15	564
HCF4017BE	2417	HE-15426	1123	HEP705	2041	HEPR1003	1067	HF-20008	1123	HM15A	564
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HCF4023BE	2423	HE-56-56	1103	HEP709	2016	HEPR1005	1067	HF-20014	1102	HN-00002	1102
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HCL-29	2009	HE-56-73	1102	HEP715	2023	HEPR1216	1067	HF20032	1102	HN-00005	563
HCL-6066	2009	HE-56-93	1103	HEP716	2023	HEPR1217	1067	HF-20034	1102	HN-00006	1104
HCV	1104	HE-57-27	1104	HEP717	2023	HEPR1218	1067	HF-20041	563	HN-00012	562
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HD10-001-01	1123	HE-57-65	1104	HEP720	2010	HEPR9003	1101	HF-20048	1102	HN-00029	1104
HD20-003-01	1104	HE-417-811	2061	HEP721	2010	HEPR9134	1123	HF-20050	1104	HN-00032	1104
HD1468	1123	HE-417-821	2061	HEP722	2010	HEPR9134A	1123	HF-20052	1104	HN-0047	1102
HD2000	1104	HE-417-822	2023	HEP723	2010	HEPR9135	1123	HF-20060	1102	HO89	563
HD2000-301	1104	HE-417-864	2061	HEP724	2009	HEPR9136	1123	HF20060	1102	HO91	1123
HD2149	1123	HE-417-865	2023	HEP725	2009	HEPR9137	1103	HF-20061	1102	HO99	1101
HD2155	1123	HE-417-874	2023	HEP726	2016	HEPS0001	2061	HF-20063	1103	HP-5A	1104
HD2503	1801	HE-417-875	2009	HEP727	2010	HEPS0002	2009	HF-20064	1102	HP205	1104
HD2503P	1801	HE-417-923	2055	HEP728	2009	HEPS0004	2009	HF-20065	562	HP5082-2800	1103
HD2509	1801	HE-417-937	2009	HEP729	2009	HEPS0005	2061	HF20066	1104	HR-05A	1104
HD2509P	1801	HE-442-654	1720	HEP730	2016	HEPS0006	2023	HF-20067	1104	HR-1	2007
HD2519	1808	HE-442-674	1771	HEP731	2010	HEPS0007	2061	HF-20071	1114	HR1	2007
HD2519P	1808	HE-443-607	2413	HEP732	2010	HEPS0008	2058	HF-20083	1104	HR-2	2007
HD2522	1802	HE-1024	1123	HEP733	2010	HEPS0010	2058	HF-20084	1104	HR2	2007
HD2522P	1802	HE-10001	1123	HEP734	2010	HEPS0011	2009	HF-20095	1102	HR-2A	2007
HD2532	1805	HE-10002	1123	HEP735	2009	HEPS0015	2009	HF-20105	1104	HR2A	2007
HD2532P	1805	HE-10003	1123	HEP736	2030	HEPS0016	2010	HF-20124	1102	HR-2A(PENNCREST)	1104
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HD4001	2401	HE-10027	1123	HEP739	2023	HEPS0021	2010	HF-MV2	1102	HR-4	2007
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HD4023	2423	HE-15426	1123	HEPC3001L	1801	HEPS0025	2009	HFSD1A	1104	HR5	2007
HD4049	2449	HE-15446	1123	HEPC3001P	1801	HEPS0026	2023	HFSD1B	1104	HR-5A	1104
HD6001	1102	HE-20011	1104	HEPC3004L	1802	HEPS0027	2061	HF-SD-1C	1104	HR5A	1104
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HD7400P	1801	HEF4011BD	2411	HEPC6052P	007	HEPS0034	2009	HG5004	1123	HR-6	2007
HD7401P	1801	HEF4011BP	2411	HEPC6059P	1758	HEPS0035	2009	HG5006	1123	HR6	2007
HD7404	1802	HEF4011P	2411	HEPC6102P	038	HEPS0036	2009	HG5007	1123	HR-7	2007
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HD7490A	1808	HEF4013BP	2413	HEPC6113P	1771	HEPS0038	2009	HG5009	1123	HR-7A	2007
HD7490AP	1808	HEF4013P	2413	HEPC6114P	1772	HEPS0040	2009	HG5078	1123	HR7A	2007
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HD200207	1104	HEF4017BP	2417	HEPC6129P	1714	HEPS3061	2020	HG5085	1123	HR8	2007
HD200301	1104	HEF4017P	2417	HEPC6130P	1723	HEPS5021	2055	HG5088	1123	HR-8A	2007
HD-1000101	1123	HEF4023BD	2423	HEPC6131P	1723	HEPS5026	2030	HG5808	1123	HR8A	2007
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HD1000107	1123	HE-M8489	1102	HEPC7404P	1802	HEPS7005	2055	HGR3	1104	HR-9A	2007
HD1000107-0	1123	HE-OA90	1123	HEPC7408P	1822	HEPS7006	2055	HGR4	1104	HR9A	2007
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HD2000301	1104	HEP56	2010	HEPG0006	2007	HEPZ0406	565	HJ15	2007	HR12C	2030
HD2000301-0	1104	HEP57	2023	HEPG0006P/G	2007	HEPZ0408	561	HJ15D	2007	HR12D	2030
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HR81	2030	HT30494X	2041	HT304531B	2009	HT309301E	2016	HW15	564	ID102	1067	(IR)25C829B	2009
HR84(NPN)	2009	HT30441B	2016	HT304531C	2009	HT309301F	2016	HW15A	564	ID103	1067	(IR)25C838	2009
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J4-1640	2041	J24875	2016	JC-00059	1114	JE9112Q	2009	K118J966-57	1101	KB8416	2009
J4-1645	2023	J24877	1104	JC-10D1	1104	JE9112R	2009	K118J966-58	1101	KB8416	2009
J4-1649	2030	J24878	2009	JC501P	2009	JE9112S	2009	K118J966-59	1101	KB8416	2009
J4-1650	2023	J24903	2010	JC-DS16E	1104	JE9112T	2009	K118J966-60	1101	KB8416	2009
J4-1651	2061	J24904	2010	JC-KS05	1104	JE9112U	2009	K118J966-61	1101	KB8416	2009
J4-1654	2020	J24905	2010	JCN1	1104	JE9112V	2009	K118J966-62	1101	KB8416	2009
J4-1725	1067	J24906	2009	JCN2	1104	JE9112W	2009	K118J966-63	1101	KB8416	2009
J-6	1104	J24907	2009	JCN3	1104	JE9112X	2009	K118J966-64	1101	KB8416	2009
J-8	1114	J24909	2009	JCN4	1104	JE9112Y	2009	K118J966-65	1101	KB8416	2009
J-10	1114	J24911	1123	JCN5	1104	JE9112Z	2009	K118J966-66	1101	KB8416	2009
J10	1114	J24912	1102	JCN6	1104	JE9112A	2009	K118J966-67	1101	KB8416	2009
J107	1104	J24913	1123	JCN7	1114	JE9112B	2009	K118J966-68	1101	KB8416	2009
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J108	2010	J24915	2010	JC-SD-1Z	1104	JE9112D	2009	K118J966-70	1101	KB8416	2009
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J187	2010	J24920	1104	JC-SG005	1104	JE9112F	2009	K118J966-72	1101	KB8416	2009
J242	1123	J24921	2010	JC-V03C	1104	JE9112G	2009				

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KSD1051	2041	LID929	2016	LM1153	2023	LZZ1-12	563	M71A	1104	M720B	1114	M4553	2007
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KSD1057	2041	LJ152-0	2023	LM-1160	1104	M024	2010	M72B	1114	M730C	1114	M4553RED	2007
KSD1058	2041	LJ152B	2023	LM1160	1104	M094-585-46	2023	M72C	1114	M773	2009	M4553VEL	2007
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KSD2202	2041	LL-2	1104	LM1404	2023	M1-301	1102	M73	1114	M774	2009	M4564	2007
KSD4150	2061	LL2	1104	LM1415-6	2009	M1H	1104	M73A	1114	M774ORN	2009	M4565	2007
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KSKE125C200	1114	LM224AF	1711	LM1458N	038	M4	2061	M77	2007	M776GRN	2009	M4589	2007
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KSO91A	562	LM224N	1711	LM1614D	2009	M4Z4.7-20	565	M78C	2007	M783	2009	M4597	2007
KT218	2009	LM317T	1778	LM1614M	2009	M4Z4.7A	565	M78D	2007	M783RED	2009	M4597GRN	2007
KT218F	2061	LM320T-5.0	1773	LM1795	2023	M4Z5.1	565	M78E	2007	M784	2009	M4597RED	2007
KTAS62-TM	2023	LM320T5.0	1773	LM1818	2009	M4Z5.1-20	565	M78GRN	2007	M784ORN	2009	M4603	2007
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KV1	2007	LM340T-5.0	1770	LM3862M	1731	M4Z15-20	564	M91C	2009	M822B	2009	M4697	2007
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KV-4	2007	LM340T-12	1771	LM80501/J	2009	M6	2061	M91E	2009	M823WHT	2009	M4709	2010
KV4	2007	LM340T12	1771	LM9016F	2010	M6HZ	1104	M91F	2009	M827	2009	M4709RED/RED	2010
KV-4D	2007	LM340T-12R	1771	LM9018G/F	2009	M7	2023	M91FM624	2009	M827BRN	2009	M4714	2009
KV-14	2007	LM340T-15	1772	LM7540C	2016	M8HZ	1114	M95	1123	M828GRN	2009	M4715	2041
KX-1	1102	LM340T15	1772	LN75497	2041	M9Z	562	M102	1114	M829A	2023	M-4721	2009
L3/2H	1104	LM340T-15R	1772	LN78533	2041	M12	1104	M108	2007	M829B	2023	M4732	2009
L4	2016	LM340U5	1770	LP1H	1104	M12Z	563	M124J/779-1	1104	M829C	2023	M4733	2016
L5	2016	LM340U12	1770	LP2H	1104	M14	1104	M128-J422PT.1	1101	M829D	2023	M4734	2009
L6	2016	LM340U15	1772	LP3H	1104	M15Z	564	M128-J753	1101	M829E	2023	M4736	1104
L6/2H	1104	LM341-5	1770	LP4H	1104	M21C	1067	M128J422-1	1101	M829F	2023	M4737	2009
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L8/2H	1104	LM341-15	1772	LP4M.7A	565	M21C/R	1067	M-128J510-1	2010	M847	2009	M4745	2023
L32H	1104	LM341P-5.0	1770	LP4M9.1	562	M21C5	1067	M-128J511-3	2016	M847BLK	2009	M4746	2010
L62H	1104	LM341P5.0	1770	LP4M9.1A	562	M21CQ	1067	M128J753	1101	M924	2009	M4756	2016
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L532-008-012	2030	LM341P12	1771	LP4M12A	563	M21CY	1067	M140-1	2010	M-1002-17-NC	2009	M4765	2009
L842	2010	LM341P-15	1772	LP4M15	564	M22	1104	M140-3	2009	M1400-1	2010	M4768	2009
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L5021	2007	LM380N	706	LP2T15	564	M24A	2009	M172A	1104	M3519	2009	M4815D	2023
L5022	2007	LM383	703	LR47CH	565	M24B	2009	M-204B	1104	M4313	2007	M4816	562
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L5025	2007	LM386	1731	LR56CH	565	M25A	2009	M300-1300A	2030	M4327	2007	M4821	2009
L5025A	2007	LM386A	1731	LR62CH	561	M25A2	2009	M351	2007	M4363	2007	M4825	2010
L5106	2007	LM386LM	1731	LR91CH	562	M25B	2009	M380	706	M4363BLU	2007	M4826	2016
L5121	2007	LM386N	1731	LR120CH	563	M25B2	2009	M401	2016	M4363GRN	2007	M4826	2009
L5122	2007	LM386N-3	1731	LR150CH	564	M26	1102	M-433	2060	M4363ORN	2007	M4837	2016
L5181	2007	LM387	1737	LRQ849	2009	M-31	1104	M433	2060	M4363WHT	2007	M4840	2009
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LA600	1104	LM565CN	1720	LRR200	1104	M54B	2009	M500B	1104	M4369	2007	M4842C	2009
LA800	1104	LM723C	1740	LRR-300	1104	M54BLK	2009	M500C	1104	M4389	2007	M4844	2009
LA1363	1759	LM723CD	1740	LRR300	1104	M54BLU	2009	M530	2030	M4398	2007	M4845	2016
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LB3006	1802	LM1110B	2010	LS-0067	2027	M54RED	2009	M644	2023	M4464	2009	M4898	2009
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LD128	1124	LM1120C	2010	LS-0095-AR-213	2016	M65A	2023	M671	2009	M4470	2007	M4926	2009
LD128(RCA)	1124	LM1123H	2010	LS3705	2009	M65B	2023	M680	1104	M4471	2007	M4933	2009
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LDA400MP	2009	LM-1130	2009	LT1016	2010	M65D	2023	M680B	1104	M4474	2007	M4937	2009
LDA401	2009	LM-1132	2009	LT1016(E)	2009	M65E	2023	M680C	1104	M4475	2007	M4937(3RD-IF)	2059
LDA401MP	2009	LM-1133	2009	LT1016D	2010	M65F	2023	M690	1104	M4476	2007	M4941	2009
LDA402	2009	LM1133	2059	LT1016E	2010	M67	2010	M690A	1104	M4477	2007	M4943	2023
LDA404	2030	LM1138	2058	LT1016H	2058	M67A							

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M7015	2009	M9576	2020	MA884	2007	MC035	1104	MC53200	1801	ME216	2009	MHT5906	2020
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M7109	2009	M9666	2041	MA888	2007	MC070A	1114	MCR102	1067	ME502	2023	MHT7414	2030
M7109/A5P	2009	M9676	2020	MA889	2007	MC080	1114	MCR103	1067	ME900	2009	MHT7417	2030
M7127	2023	M9676/NPN	2020	MA890	2007	MC080A	1114	MCR104	1067	ME900A	2009	MHT7601	2041
M7127/P2S	2023	M31001	2009	MA891	2007	MC090	1114	MCR106-1	1067	ME901	2009	MHT7602	2041
M7171	2009	MA1032A	1114	MA892	2007	MC090A	1114	MCR106-2	1067	ME901A	2009	MHT7603	2041
M7543-1	2041	MA1223-2	1104	MA893	2007	MC2	1102	MCR106-3	1067	ME1001	2009	MHT7607	2041
MB014 (TRANSISTOR)		MS1841P	1723	MA894	2007	MC19	1104	MCR106-4	1067	ME1002	2009	MHT7608	2041
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MB062B	2007	MS3200P	1801	MA896	2007	MC100	1114	MCR107-2	1067	ME1100	2061	MHT9001	2030
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MB073B	2007	MS3201P	1801	MA898	2007	MC101	2007	MCR107-4	1067	ME2001	2009	MHT9004	2030
MB073C	2007	MS3204	1802	MA899	2007	MC103	2007	MCR115	1067	ME2002	2009	MHT9005	2030
MB105	2009	MS3204P	1802	MA-900	1123	MC1350P	1757	MCR120	1067	ME3002	2010	MI-15R	1104
MB116	2007	MS3247	1805	MA900	2007	MC170	1104	MCR406-1	1067	ME3011	2010	MI15RC	1104
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		MS3290	1808	MA902	2007	MC308	1123	MCR406-3	1067	ME4002	2009	MI15SC	1104
MB124	2007	MS3290P	1808	MA903	2007	MC456	1104	MCR406-4	1067	ME4003	2009	MI-152	1114
MB221	2009	MS516-2	2007	MA904	2007	MC1330	1757	MCR407-1	1067	ME4003C	2009	MI-152A	1114
MB222	1104	MS516-2P	2007	MA909	2007	MC1330P	1757	MCR407-2	1067	ME4101	2009	MI-152R	1114
MB399	1104	MS516-2R	2007	MA910	2007	MC1350	1757	MCR407-3	1067	ME4102	2009	MI-152RA	1114
MB882	1124	M-75517-1	2007	MA1051	565	MC1350P	1758	MCR407-4	1067	ME4103	2009	MI301	1102
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MB482F	1124	M75517-2	2007	MA1120	563	MC1358	1759	MC52137	2061	ME5001	2010	MI9623	2009
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MB604	2007	M75547-2	2010	MA1700	2007	MC1458CP1	1038	MD35	1123	ME8002	2030	MI7401N	1801
MB604A	2007	M75549-2	2041	MA1702(DIODE)	1102	MC1458P	1038	MD38	1123	ME8003	2030	MI7404J	1802
MB640E	2007	M-75557-1	2009	MA1703	2007	MC1458P1	1038	MD46	1123	ME8101	2010	MI7404N	1802
MB640E (C-M)	1102	M-75557-2	2009	MA1703(DIODE)	1102	MC1458V	1038	MD54	1123	ME8201	2010	MI7490J	1808
MB640E (DIO)	1102	M-75557-3	2009	MA1704	2007	MC1520	1104	MD56	1123	ME9001	2009	MI7490N	1808
MB640E (XSTR)	2007	M-75557-4	2009	MA1704(DIODE)	1102	MC1521	1104	MD60	1123	ME9002	2010	MI13674/47	2023
M-8441	2009	M-75557-5	2009	MA1705	2007	MC1522	1104	MD134	1104	ME9003	2010	MI105	2055
M9010	2010	M-75557-6	2009	MA1706	2007	MC1523	1104	MD135	1104	ME9021	2010	MI139A	2059
M9032	2010	M75561-7	2007	MA1707	2007	MC1524	1104	MD136	1104	ME9022	2010	MI480	2041
M9095	2009	M75565-1	2009	MA1708	2007	MC1527	1114	MD137	1104	MEF-25	2009	MI481	2041
M9138	2030	M105044	1101	MA3065	1759	MC1528	1114	MD138	1104	MEM4001	2401	MI490	2043
M9148	2007	M755162-P	2007	MA4101	2009	MC1529	1114	MD139	1104	MEM4011	2411	MI491	2043
M9159	2009	M755162-R	2007	MA4102	2009	MC1723CL	1740	MD254	1104	MEM4013	2413	MI-2251	2030
M9170	2009	MA0404	2023	MA4103	2009	MC1741CP1	007	MD255	1104	MEM4049	2449	MI2800	2041
M9184	2030	MA0414	2023	MA4104	2009	MC1741NCP1	007	MD256	1104	MER-65-11324	1103	MI2801	2041
M9197	2016	MA1	2007	MA4404	2007	MC2326	1102	MD420	2007	MEZ1-5.1	565	MI2802	2041
M9198	2007	MA2	1104	MA4404A	2007	MC2526	1123	MD501	2007	MEZ1-6.2	561	MI2901	2043
M9206	1104	MA3	1123	MA6001	2009	MC3301P	1713	MD501B	2007	MEZ1-9.1	562	MI2955	2043
M9209	2030	MA8	1123	MA6002	2009	MC3302	1712	MD604A	1123	MEZ1-12G	563	MI3480	2055
M9221	2030	MA-10	2060	MA6003	2009	MC3302P	1712	MD753	561	MEZ1-15	564	MI3602	2041
M9226	2009	MA10	2060	MA6101	2030	MCC5321	1102	MD753A	561	MEZ12T5	563	MI3800	2055
M9228	2030	MA23(B)	1123	MA6102	2009	MC6008	561	MD757	562	MEZ12T10	563	MI12002	2055
M9235	1104	MA47	1123	MA6001	2030	MC6008A	561	MD757A	562	MEZ15T5	564	MI12003	2055
M9244	2041	MA50	1104	MA6002	2030	MC6016	563	MD759	563	MEZ-15T5A	564	MI15002	2043
M9248	2009	MA51A	1123	MA9426	2009	MC6016A	563	MD759A	563	MEZ15T10	564	MI29	2020
M9249	2007	MA55	1102	MAC77-1	1001	MC6018	564	MD982	2023	MEZ15T10C	564	MI29A	2020
M9250	2007	MA56	1102	MAC77-2	1001	MC6018A	564	MD982F	2023	MF1161	2010	MI29B	2020
M9259	2041	MA90	1123	MAC77-3	1001	MC6108	561	MDA100	1151	MF1162	2010	MI29C	2020
M9264	2016	MA100	2007	MAC77-4	1001	MC6108A	561	MDA101	1171	MF1163	2010	MI31	2020
M9269	2016	MA101	1104	MAC77-5	1000	MC6116	563	MDA104	1173	MF1164	2010	MI31A	2020
M9276	2041	MA102	1104	MAC77-6	1000	MC6116A	563	MDA920-1	1171	MF3304	2023	MI31B	2020
M9282	2009	MA110	1104	MAQ7786	2009	MC6118	564	MDA920-2	1104	MG9623	2009	MI31C	2020
M9293	2016	MA112	2007	MA520	2007	MC6118A	564	MDA920-5	1173	MGD72	1103	MI33	2020
M9302	2041	MA113	2007	MA521	2007	MC7400	1801	MDA920-6	1173	MGLA47	565	MI33A	2020
M9312	1104	MA114	2007	MA522	2007	MC7400F	1801	MDA942-2	1171	MGLA47B	565	MI33B	2020
M9314	1104	MA115	2007	MA523	2007	MC7400L	1801	MDA942-4	1173	MGLA51	565	MI33C	2020
M9317	1104	MA116	2007	MB-01	1152	MC7400N	1801	MDA942-5	1173	MGLA51A	565	MI41	2020
M9319	1104	MA117	2007	MB01	1104	MC7400P	1801	MDA942A-1	1171	MGLA51B	565	MI41A	2020
M9321	2041	MA150	1103	MB-04	1173	MC7401F	1801	MDA942A1	1171	MGLA62	561	MI41B	2020
M9329	2016	MA150DD	1102	MB-4-01	1171	MC7401L	1801	MDA942A-2	1171	MGLA62A	561	MI41C	2020
M9334	2023	MA150LF	1103	MB-4-04	1173	MC7401P	1801	MDA942A-4	1173	MGLA62B	561	MI41D	2027
M9338	2016	MA150TA	1103	MB244	1104	MC7404L	1802	MDA942A-5	1173	MGLA91	562	MI41E	2027
M9346	2027	MA161	1103	MB257	1104	MC7404P	1802	MDA942A5	1173	MGLA91A	562	MI41F	2027
M9380	2030	MA161C	1103	MB258	1104	MC7408L	1822	MDP173	1102	MGLA91B	562	MI41G	2020
M9384	2016	MA162	1103	MB269	1104	MC7408P	1822	MDS31	2007	MH67	1104	MI4202	2020
M9389	2059	MA162LF	1103	MB270	1104	MC7447L	1805	MDS32	2007	MH68	1104	MI4205K	2020
M9409	2016	MA165	1103	MB400	1801	MC7447P	1805	MDS33	2007	MH70	1104	MI420K	2020
M9412	2023	MA203	1104	MB416	1801	MC7490F	1808	MDS33A	2007	MH71	1104	MI4221K	2020
M9416	2016	MA206	2007	MB418	1802	MC7490L	1808	MDS33C	2007	MH72	1114	MI42301	2020
M9447	2016	MA211	1104	MB513AR	1102	MC7490P	1808	MDS33D	2007	MH73	1114	MI42380	2020
M9450	2016	MA215	1104	MB601	1801	MC7812CT	1771	MDS34	2007	MH500	1104	MI42381	2020
M9467	2023	MA238	2007	MB84011	2411	MC9427	2009	MDS35	2007	MH670	1104	MI42382	2020
M9474	2016	MA240	2007	MB84011-U	2411	MC14001	2401	MDS36	2007	MH680	1104	MI42383	2020
M9475	2009	MA242	1104	MB84011B	2411	MC14001CP	2401	MDS37	2007	MH700	1104	MI42480	2020
M9481	2016	MA242C	1104	MB84011M	2411	MC14011	2401	MDS38	2007	MH710	1104	MI42481	2020
M9482	2010	MA242RC	1114	MB84011U	2411	MC14011B	2401	MDS39	2007	MH720	1114	MI42482	2020
M9486	2016	MA286	2007	MB84011V	2401	MC14011BCP	2411	MDS40	2007	MH730	1114	MI42483	2020
M9491													

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ALM139L	1712	MM60	2007	MPS3638	2023	MPS6574-B	2030	MPS9625D	2058	MPSA20-BLU	2016	MR1032B	1114
ALM224L	1711	MM60(DIODE)	1123	MPS-3638A	2023	MPS6574-BLUE	2030	MPS9625E	2058	MPSA20-GRN	2016	MR1032BR	1114
ALM224P	1711	MM380	706	MPS3638A	2023	MPS6574-G	2030	MPS9625F	2058	MPSA20-RED	2016	MR1033A	1114
ALM239AL	1712	MM380H	706	MPS3639	2023	MPS6574-S	2030	MPS9625G	2058	MPSA20-WHT	2016	MR1033AR	1114
ALM239L	1712	MP-01	1104	MPS3640	2023	MPS6574-SIL	2030	MPS9625H	2058	MPSA20-YEL	2016	MR1033B	1114
ALM324	1711	MP01	1104	MPS3642	2009	MPS6574-Y	2030	MPS9626	2009	MPSA42	2061	MR1033BR	1114
ALM324L	1711	MP-04	1173	MPS3643	2009	MPS6574-YEL	2030	MPS9626G	2009	MPSA43	2061	MR1034A	1114
ALM324P	1711	M-P3D	2007	MPS3644	2023	MPS6575	2009	MPS9626H	2009	MPSA-A55	2023	MR1034AR	1114
ALM324P1	1711	MP100	1104	MPS3645	2023	MPS6575GREEN	2059	MPS9626I	2009	MPSA55	2023	MR1034B	1114
ALM339AL	1712	MP225	1104	MPS3646	2009	MPS6576	2009	MPS9630	2009	MPSA-A56	2023	MR1034BR	1114
ALM339L	1712	MP300	1104	MPS3693	2009	MPS6576-B	2009	MPS9630H	2009	MPSA56	2023	MR1035A	1114
MM0	1104	MP400	1104	MPS3694	2009	MPS6576-BLUE	2009	MPS9630H.I	2009	MPSA70	2023	MR1035AR	1114
MM2	1104	MP500(RECT.)	1104	MPS-3702	2023	MPS6576-G	2009	MPS-9630I	2009	MPSA70-BLU	2061	MR1035B	1114
MM3	1104	MP549	1143	MPS3702	2023	MPS6576-GREEN	2009	MPS9630I	2009	MPSA70-GRN	2061	MR1035BR	1114
MM4	1104	MP651	1104	MPS3703	2023	MPS6576-S	2009	MPS9630J	2009	MPSA70-RED	2061	MR1036A	1114
MM5	1104	MP1003-1	1104	MPS3704	2009	MPS6576-SIL	2009	MPS9630K	2009	MPSA70-WHT	2061	MR1036AR	1114
MM6	1104	MP1003-2	1104	MPS-3705	2009	MPS6576-Y	2009	MPS9630T	2009	MPSA70-YEL	2023	MR1036B	1114
MM7	1114	MP1003-4	1104	MPS3705	2009	MPS6576-YEL	2059	MPS9631	2009	MPSA Y2	2061	MR1036BR	1114
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MM9	1114	MP1014-2	2009	MPS3706#	2009	MPS6576SIL	2009	MPS9631J	2009	MPSD02	2061	MR1038AR	1114
MM10	1114	MP1014-4	2007	MPS3707	2009	MPS6577	2023	MPS9631K	2009	MPSD03	2061	MR1038B	1114
MM306	2030	MP1014-5	2007	MPS3708	2009	MPS6580	2023	MPS9631S	2009	MPSD05	2009	MR1038BR	1114
MM380	2007	MP1014-6	2007	MPS3709	2009	MPS6590	2009	MPS9631T	2009	MPSD06	2009	MR1040A	1114
MM404A	2007	MPS113	1104	MPS3710	2009	MPS6591	2023	MPS9632	2009	MPSD55	2023	MR1040AR	1114
MM486	2030	MPS-5115	1104	MPS3711	2009	MPS57513	2058	MPS9632(I)	2009	MPSD56	2023	MR1040B	1114
MM487	2030	MP8111	2020	MPS3721	2009	MPS8001	2009	MPS9632(K)	2009	MPSD239	2009	MR1040BR	1114
MM488	2030	MP8112	2020	MPS3826	2009	MPS8097	2009	MPS9632H	2009	MPSH02	2058	MR1337-1	1104
MM511	2030	MP9602	1104	MPS3827	2009	MPS8098	2009	MPS9632I	2009	MPS-H04	2061	MR1337-2	1104
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MM513	2030	MP4906063	2030	MPS3900A	2009	MPS8598	2023	MPS9632K	2009	MPSH05	2061	MR1337-4	1104
MM709	2010	MPC1458C	038	MPS3901	2009	MPS8599	2023	MPS9632T	2009	MPSH07	2061	MR1337-5	1104
MM859B	2009	MPC3500	1102	MPS3904	2016	MPS9185	2009	MPS9633	2016	MPSH08	2010	MR2064	1104
MM999	2023	MPC14305	1770	MPS3906	2023	MPS92446.A.B	2009	MPS9633C	2016	MPSH09	2010	MR2065	1104
MM1139	2007	MPF102	2035	MPS3992	2009	MPS9410A	2030	MPS9633D	2016	MPSH10	2058	MR2069	1114
MM1151	2007	MPF106	2035	MPS4145	2009	MPS9410AJ	2030	MPS9633G	2016	MPSH11	2058	MR2070	1114
MM1152	2007	MPF111	2062	MPS4354	2023	MPS9410AK	2030	MPS9634	2009	MPS-H17	2058	MR2261	1104
MM1153	2007	MPL1000	2023	MPS4355	2023	MPS9410H	2030	MPS9634B	2016	MPSH17	2058	MR2271	1114
MM1154	2007	MPM5006	2009	MPS4356	2023	MPS9417A-T	2009	MPS9634C	2009	MPSH19	2058	MR2369	2009
MM1199	2007	MPS-9623G	2009	MPS5086	2023	MPS9418	2009	MPS9634D	2009	MPSH20	2009	MR3932	2030
MM1367/25C684	2010	MPS393	2009	MPS-5172	2016	MPS9418T	2009	MPS9644	1102	MPSH24	2010	MR3933	2030
MM1382	2010	MPS404	2023	MPS5172	2009	MPS9423	2009	MPS9646	1102	MPSH30	2058	MR9600	1104
MM1387	2010	MPS404A	2023	MPS6076	2023	MPS9423F	2010	MPS9646G	1102	MPSH31	2058	MR9601	1104
MM1619	2020	MPS551AM	2061	MPS6134	2023	MPS9423G	2010	MPS9646H	1102	MPS-H32	2009	MR9602	1104
MM1742	2007	MPS654	2010	MPS6351	2009	MPS9423H	2010	MPS9646I	1102	MPSH34	2016	MR9604	2009
MM1748	2009	MPS-706	2009	MPS6413	2009	MPS9423I	2010	MPS9646J	1102	MPSH37	2058	MR9603	1104
MM1755	2009	MPS706	2009	MPS6507	2010	MPS9426	2058	MPS9646M	1102	MPSH54	2023	MRB-20C	1104
MM1756	2009	MPS706A	2009	MPS6511	2010	MPS9426A	2058	MPS9666	2023	MPSH55	2023	MRD150	2016
MM1757	2009	MPS708	2010	MPS6511-S	2010	MPS9426A.B	2009	MPS9680	2023	MPSH81	2023	MRD450	2016
MM1758	2009	MPS805	2010	MPS6512	2009	MPS9426B	2058	MPS9680H	2023	MPSK20	2009	MRF501	2016
MM1809	2030	MPS834	2009	MPS6513	2009	MPS9426B.C	2058	MPS9680H/E	2023	MPSK21	2009	MRF502	2016
MM1809A	2030	MPS835	2009	MPS6514	2009	MPS9426B	2058	MPS9680H/I	2023	MPSK22	2009	MRF531	2030
MM1810A	2030	MPS918	2010	MPS6515	2009	MPS9426C	2058	MPS9680I	2023	MPSK70	2023	MRF901	2044
MM1943	2010	MPS960T	2009	MPS6516	2023	MPS9427	2058	MPS9680I/J	2023	MPSK71	2023	MR5648	2010
MM1945	2010	MPS1097	2007	MPS6517	2023	MPS9427B	2058	MPS9680J	2023	MPSK72	2023	MRV-20C	1104
MM2005-2	2009	MPS1572	2023	MPS6518	2023	MPS9427B.C	2009	MPS9680T	2023	MPSL01	2061	MS-1	1102
MM2266	2030	MPS2221	2009	MPS6519	2023	MPS9427C	2058	MPS9681	2023	MPSL51	2061	MS1H	1104
MM2503	2007	MPS2221A	2009	MPS6520	2009	MPS9433	2009	MPS9681I	2023	MPX-25	1104	MS-2	1102
MM2550	2007	MPS2222A	2009	MPS6521	2009	MPS9433J	2016	MPS9681J	2023	MPX25	1104	MS2H	1104
MM2552	2007	MPS2369	2009	MPS6522	2023	MPS9433K	2009	MPS9681K	2023	MPX215	1104	MS3H	1104
MM2554	2007	MPS2711	2009	MPS6523	2023	MPS9433T	2009	MPS9681T	2023	MPX9410H	2030	MS-4	1103
MM2894	2007	MPS2712	2009	MPS6524	2023	MPS9434J	2009	MPS9682	2023	MPX9623	2009	MS4H	1104
MM3726	2023	MPS2713	2009	MPS6528	2010	MPS9434K	2009	MPS9682(I)	2023	MPX9623H	2009	MS5C	1104
MM3734	2030	MPS2714	2009	MPS6529	2010	MPS9444	1102	MPS9682I	2023	MPX9623H/I	2009	MS5H	1104
MM3735	2030	MPS2715	2009	MPS6530	2009	MPS9461A.1	2061	MPS9682J	2023	MPX9623I	2009	MS11H	1104
MM3736	2030	MPS-2716	2009	MPS6531	2009	MPS9467A-T	2023	MPS9682K	2023	MPX9630I	2009	MS12H	1104
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MM3905	2023	MPS2906	2009	MPS6534	2023	MPS9600F	2009	MPS9696G	2059	MQ3/2	1104	MS35H	1104
MM3906	2023	MPS2907	2023	MPS6534AM	2023	MPS9600G	2009	MPS9696H	2009	MQ6/2	1104	MS36H	1104
MM4011	2411	MPS2923	2009	MPS6535	2023	MPS9600G/H	2010	MPS9696I	2009	MQ8/2	1104	MS50	1104
MM4013	2413	MPS2924	2009	MPS6535AM	2023	MPS9600H	2010	MPS9700D	2009	MQ32	1104	MS701T	2010
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MM4048	2023	MPS2926	2009	MPS6540	2058	MPS9604	2058	MPS9700F	2009	MQ82	1104	MS3694	2009
MM4049	2449	MPS2926-B	2030	MPS6541	2058	MPS9604D	2009	MPS9700U	2009	MR-1	1104	MS7501S	2010
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MM5000	2007	MPS2926-G	2009	MPS6543	2058	MPS9604F	2009	MPS9750F	2023	MR1C	1114	MS7502R	2009
MM5001	2007	MPS2926-GRN	2009	MPS6544	2009	MPS9604FG	2009	MPS9750G	2023	MR1M	1114	MS7502S	2010
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MM5189	2030	MPS2926-ORG	2009	MPS6546	2058	MPS9604R	2009	MPS9750T	2023	MR47C-H	565	MS7503R	2009
MM5262	2030	MPS2926-R	2030	MPS6547	2010	MPS9606	1102	MPS65611	2009	MR51C-H	565	MS7504	2060
MM8006	2016	MPS2926-RED	2009	MPS6548	2058	MPS9606H	1102	MPS9423I	2010	MR51E-H	565	MS7505	2023
MM8007	2016	MPS2926-Y	2030	MPS6552	2009	MPS9606I	1102	MPS9604I	2009	MR62C-H	561	MS7506H	2030
MMCM918	2010	MPS2926-YEL	2009	MPS6553	2009	MPS9611-S	2009	MPS9606I	1102	MR62E-H	561	MS7506J	2030
MMCM930	2016	MPS2926BRN	2009	MPS6554	2009	MPS9616	2009	MPS9632I	2009	MR62H	561	MS9667	2023
MMCM2484	2061	MPS2926GRN	2009	MPS6555	2009	MPS9616J	2009	MPS96800	2023	MR91C-H	562	MS9681	2023
MMT70	2016	MPS2926GRN	2009	MPS6556	2009	MPS9618	2009	MPS964611	1102	MR91E-H	562	MSA7505	2020
MMT71	2061	MPS2926RED	2009	MPS6560	2009</								

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MSR7503	2009	MVA-05A(DIO)	1104	N5723A	1740	NC29	1123	NKT222	2007	NPC212N	2062
MSR-V5	1104	MVA-05A(RECT)	1104	N5711V	007	NC30	2007	NKT222S1	2007	NPC214N	2062
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MSS7501	2010	MX-3123	2010	N7400F	1801	NC207AL	2009	NKT223A	2007	NPC290	2030
MSS7502	2010	MX3336	1758	N7400N	1801	NC59018D	2010	NKT224A	2007	NPC737	2030
MST-10	2030	MX-3634	2411	N7401	1801	NE269	2007	NKT225A	2007	NPC1075	2059
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MT0412	2023	MZ6.2	561	N7408N	1822	N-EA15X134	2010	NKT232	2007	NPS404A	2023
MT0413	2023	MZ6.2A	561	N7447A	1805	N-EA15X135	2010	NKT232A	2007	NPS404A	2023
MT0414	2023	MZ6.2B	561	N7447B	1805	N-EA15X136	2009	NKT242	2007	NPS404A	2023
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MT0462	2023	MZ-9	562	N7490A	1808	N-EA15X138	2009	NKT244	2007	NPS404A	2023
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MT14	1104	MZ-11	563	N7490N	1808	N-EA16X30	1104	NKT246	2007	NPS404A	2023
MT24	1104	MZ-12	563	N-52329	2041	NF500	1104	NKT247	2007	NPS404A	2023
MT44	1104	MZ12	563	N-121122	2041	NF501	1104	NKT247A	2007	NPS404A	2023
MT64	1104	MZ12A	563	N121122	2041	NF506	1104	NKT249	2007	NPS404A	2023
MT84	1114	MZ-12B	563	NA-13	1104	NF550	1104	NKT251	2007	NPS404A	2023
MT100	2010	MZ12B	563	NA13	1104	NF4302	2062	NKT252	2007	NPS404A	2023
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MT102	2010	MZ15T20	564	NA22	1104	NGP3002	1123	NKT254	2007	NPS404A	2023
MT104	2009	MZ92-4.7A	565	NA-25	1104	NGP3003	1143	NKT255	2007	NPS404A	2023
MT106	2010	MZ92-5.1A	565	NA25	1104	NGP5002	561	NKT261	2007	NPS404A	2023
MT107	2010	MZ92-6.0B	561	NA-32	1104	NGP5007	562	NKT262	2007	NPS404A	2023
MT-302	2030	MZ92-6.2A	561	NA32	1104	NGP5010	563	NKT263	2007	NPS404A	2023
MT696	2009	MZ92-9.1A	562	NA-33	1104	NJ100A	2010	NKT264	2007	NPS404A	2023
MT697	2009	MZ-92-9.1B	562	NA33	1104	NJ100B	2009	NKT265	2007	NPS404A	2023
MT706	2009	MZ92-9.1B	562	NA-35	1104	NJ101B	2023	NKT270	2007	NPS404A	2023
MT706A	2009	MZ92-12A	563	NA35	1104	NJ102C	2009	NKT273	2007	NPS404A	2023
MT706B	2009	MZ92-15A	564	NA-36	1104	NJ107	2030	NKT277	2007	NPS404A	2023
MT707	2009	MZ205	565	NA36	1104	NJ181B	2007	NKT303	2007	NPS404A	2023
MT708	2009	MZ209	562	NA-42	1104	NJ202B	2010	NKT308	2007	NPS404A	2023
MT726	2023	MZ209A	562	NA42	1104	NJM4558D	038	NKT618	2007	NPS404A	2023
MT743	2010	MZ209B	562	NA-45	1104	NK8P-2A19	2007	NKT674F	2007	NPS404A	2023
MT744	2010	MZ209C	562	NA45	1104	NK9L-4A19	2007	NKT675	2007	NPS404A	2023
MT753	2010	MZ-212	563	NA-46	1104	NK12-1A19	2009	NKT676	2007	NPS404A	2023
MT869	2023	MZ212	563	NA46	1104	NK65-1A19	2007	NKT677	2007	NPS404A	2023
MT1038	2010	MZ308	562	NA-62	1104	NK65A119	2007	NKT4055	2043	NPS404A	2023
MT1038A	2010	MZ309	562	NA-63	1104	NK65B119	2007	NKT10339	2009	NPS404A	2023
MT1039	2010	MZ309B	562	NA-65	1104	NK66-1A19	2007	NKT10419	2009	NPS404A	2023
MT1060A	2010	MZ409-02B	562	NA-66	1104	NK66-2A19	2007	NKT10519	2009	NPS404A	2023
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MT1061A	2010	MZ500-18	563	NA74	1114	NK74-3A19	2007	NKT12429	2009	NPS404A	2023
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MT1131	2023	MZ500.15	562	NA-76	1114	NK1302	2007	NKT15325	2007	NPS404A	2023
MT1131A	2023	MZ500.18	563	NA76	1114	NK1404	2007	NKT15425	2007	NPS404A	2023
MT1132	2023	MZ605	561	NA-84	1114	NKA8-1A19	2007	NKT16229	2016	NPS404A	2023
MT1132A	2023	MZ610	561	NA84	1114	NK4	2007	NKT16325	2007	NPS404A	2023
MT1132B	2023	MZ620	561	NA-85	1114	NK5	2007	NKT16425	2007	NPS404A	2023
MT1254	2023	MZ640	561	NA85	1114	NKT11	2007	NKT20329A	2023	NPS404A	2023
MT1255	2023	MZ1000-6	565	NA-86	1114	NKT12	2007	NKT20339	2023	NPS404A	2023
MT1256	2023	MZ1000-8	561	NA86	1114	NKT24	2007	NKT35219	2016	NPS404A	2023
MT1257	2023	MZ1000-12	562	NA-104	1114	NKT25	2007	NKT80111	2062	NPS404A	2023
MT1258	2023	MZ-1000-15	563	NA104	1114	NKT32	2007	NKT80215	2062	NPS404A	2023
MT1259	2023	MZ1000-15	563	NA-105	1114	NKT33	2007	NKT80216	2062	NPS404A	2023
MT1420	2023	MZ1000-17	564	NA105	1114	NKT42	2007	NL5	1104	NPS404A	2023
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MT1991	2023	MZ2360	1102	NA-1114-1002	2007	NKT53	2007	NL25	1104	NPS404A	2023
MT2303	2023	MZ2361	1102	NA-1114-1004	2007	NKT54	2007	NL30	1104	NPS404A	2023
MT2411	2023	MZ4624	565	NA-1114-1005	2007	NKT62	2007	NL40	1104	NPS404A	2023
MT2412	2023	MZ4625	565	NA-1114-1006	2007	NKT63	2007	NL50	1104	NPS404A	2023
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MT9001	2009	N5782-6	2007	NA5018-1005	2007	NKT127	2007	NPC0010	1104	NPS404A	2023
MT9002	2009	N5782-7	2007	NA5018-1006	2007	NKT128	2007	NPC0050	1104	NPS404A	2023
MT9003	2010	N5782-11	2007	NA5018-1007	2007	NKT129	2007	NPC069	2009	NPS404A	2023
MT102351A	2007	N5782-13	2007	NA5018-1008	2007	NKT131	2007	NPC069-98	2009	NPS404A	2023
MT7PN06	2072	N5782-14	2007	NA5018-1009	2007	NKT132	2007	NPC079	2023	NPS404A	2023
MTZ608	561	N5782-15	2007	NA5018-1010	2007	NKT133	2007	NPC079-98	2061	NPS404A	2023
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MTZ613	562	N5782-18	2007	NA5018-1012	2007	NKT142	2007	NPC0100	1104	NPS404A	2023
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MTZ616A	563	N5782-23	2007	NA5018-1015	2007	NKT151	2007	NPC108A	2035	NPS404A	2023
MTZ618	564	N5782-25	2007	NA5018-1016	2007	NKT152	2007	NPC115	2030	NPS404A	2023
MTZ618A	564	N201AY	2009	NA5018-1022	2007	NKT162	2007	NPC167	2016	NPS404A	2023
MU-26-1C	2041	N3563	2009	NA5018-1219	2007	NKT163	2007	NPC173	2010	NPS404A	2023
MV3(DIODE)	1102	N4001	2401	NA5018-1220	2007	NKT164	2007	NPC187	2030	NPS404A	2023
MV3(RECTIFIER)	1104	N4011	2411	NAM383	703	NKT202	2007	NPC188	2010	NPS404A	2023
MV4	1102	N4013	2413	NAP-TZ-10	2007	NKT203	2007	NPC189	2030	NPS404A	2023
MV-13(BIAS)	1104	N4023	2423	NAP-TZ-10	2007	NKT2					

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OA90FV	1123	OC-72	2007	OC-363	2007	OSS36885	1104	P3D	2007	P10619-1	2041	PBC108A	2016
OA90G	1123	OC72	2007	OC363	2007	OY101	1104	P3D5	1104	P-10954-1	2041	PBC108B	2016
OA90GA	1123	OC-73	2007	OC-364	2007	OY-5061	1104	P3W	2043	P-10954-2	2041	PBC108C	2016
OA90LF	1123	OC73	2007	OC364	2007	OY5061	1104	P3Z	2023	P-11748-1	2030	PBC109	2016
OA90M	1123	OC-74	2007	OC-390	2007	OY-5062	1104	P4A5	1104	P-11901-1	2041	PBC109B	2016
OA90MLF	1123	OC74	2007	OC390	2007	OY5062	1104	P4B5	1104	P-11903-1	2030	PBC109C	2016
OA90Z	1123	OC74N	2007	OC400	2007	OY5063	1104	P4C	2023	P12407-1	2023	PBC182	2010
OA90ZA	1123	OC-75	2007	OC-410	2007	OY5064	1104	P4C5	1104	P15153	2009	PBC183	2059
OA91	1123	OC75	2007	OC410	2007	OY5065	1104	P4D5	1104	P21309	1124	PBE3162-1	2007
OA92	1123	OC-75N	2007	OC430	2023	OY5066	1104	P4G	2023	P21316	1104	PBE3162-2	2007
OA95	1123	OC75N	2007	OC430K	2023	OY5067	1114	P4J148	2020	P21317	1104	PBE3322	1123
OA97	1123	OC76	2007	OC440	2023	OZ5-1T5	565	P4K	2023	P21344	562	PBX103	2007
OA126/12	563	OC-77	2007	OC440K	2023	OZ5-1T10	565	P4P	2023	P21443	1104	PBX113	2007
OA126-12	563	OC77	2007	OC443	2023	OZ6-2T5	561	P4R	2023	P38103/507-10	564	PC02P1/2	1104
OA127	1104	OC77M	2007	OC443K	2023	OZ6-2T10	561	P4W	2027	P50200-11	2041	PC0211/2	1104
OA128	1104	OC78	2007	OC445	2023	OZ12T5	563	P4Y	2023	P64447	2009	PC0.2P11/2	1104
OA129	1104	OC-79	2007	OC445K	2023	OZ12T10	563	P4Z	2030	P69941	2016	PC100	2020
OA130	1104	OC79	2007	OC449	2023	OZ15T5	564	P5A5	1104	P633024	2030	PC110	2020
OA131	1104	OC80	2007	OC449K	2023	OZ15T10	564	P5B	2023	P633024C(SYLVANIA)	2030	PC1007	2023
OA132	1104	OC81	2007	OC450	2023	P00347100	2023	P5B5	1104			PC1007A	2023
OA134Q	1123	OC81D	2007	OC460	2023	P00347101	2023	P5C	2023	P633024G	2030	PC1008	2023
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OA159	1123	OC81DD	2007	OC463	2023	P04-42-0011	1103	P5D	2023	P6450026	2030	PC1008B	2023
OA160	1123	OC81DN	2007	OC463K	2023	P04-44-0028	2009	P5D5	1104	P6460006	2007	PC4004	1104
OA161	1123	OC110	2007	OC465	2023	P04-45-0014-P2	2009	P5H	2027	P6460037	2007	PC4900-1	2030
OA172	1123	OC120	2007	OC465K	2023	P04-45-0014-P5	2009	P5U	2027	PA-069	1104	PC7805H	1770
OA174	1123	OC122	2007	OC466	2023	P04-45-0015-P1	2023	P6/2H	1104	PA069	1104	PC-20046	1737
OA180	1104	OC123	2007	OC466K	2023	P04-45-0016-P1	2023	P6A5	1104	PA070	1104	PC-20066	2010
OA200	1102	OC-130	2007	OC467	2023	P04-45-0026-P5	2030	P6B5	1104	PA071	1104	PD101	1104
OA202	1102	OC130	2007	OC467K	2023	P04-450016-002	2023	P6C5	1104	PA-3	1104	PD102	1104
OA205	1102	OC-140	2007	OC468	2023	P04410025-003	1103	P6D5	1104	PA3	1104	PD103	1104
OA210	1104	OC-169	2007	OC468K	2023	P04410042-001	1103	P6RP8	1114	PA9D522/1	1171	PD104	1104
OA211	1104	OC169	2007	OC469	2023	P04410042-002	1103	P6RP10	1114	PA200	1104	PD105	1104
OA214	1104	OC169R	2007	OC469K	2023	P04440028-001	2009	P7A5	1104	PA300	1104	PD106	1104
OA541	1123	OC-170	2007	OC470	2023	P04440028-009	2009	P7B5	1104	PA305	1104	PD107	1104
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OA1265	565	OC170N	2007	OC601	2007	P04440028-8	2009	P7D5	1104	PA310	1104	PD108	1104
OA2002	1102	OC170R	2007	OC-602	2007	P04440032-001	2009	P8/2H	1104	PA310A	1104	PD110	1104
OA2005	1102	OC170V	2007	OC602	2007	P04450016-004	2023	P8H	2027	PA315	1104	PD111	1104
OA12612	563	OC-171	2007	OC602SP	2007	P04450026P5	2030	P16	1101	PA315A	1104	PD114	1114
OA2201	565	OC171	2007	OC602SQ	2007	P04450040-002	2041	P17	1101	PA-320	1104	PD115	1114
OA2203	561	OC171N	2007	OC603	2007	P/FTV/117	2020	P20	1104	PA320	1104	PD116	1114
OA2207	562	OC171R	2007	OC-604	2007	P/N14-603-02	2016	P32H	1104	PA-320A	1104	PD122	1104
OA2209	565	OC171V	2007	OC604	2007	P/N2971010C01	2023	P62H	1104	PA320A	1104	PD125	1104
OA2210	561	OC174	2007	OC604SP	2007	P/N10000020	2009	P67	2023	PA-320B	1104	PD129	1104
OA2212	562	OC200	2023	OC-612	2007	P1A5	1104	P82H	1104	PA320B	1104	PD130	1104
OA2213	563	OC201	2023	OC612	2007	P1B	2023	P100	1104	PA325	1104	PD131	1104
OA2240	565	OC202	2023	OC-613	2007	P1B5	1104	P100A	1104	PA325A	1104	PD132	1104
OA2241	565	OC203	2023	OC613	2007	P1C	2023	P100B	1104	PA325B	1104	PD133	1104
OA2243	561	OC204	2023	OC-614	2007	P1C5	1104	P100D	1104	PA330	1104	PD134	1104
OA2247	562	OC205	2023	OC614	2007	P1C6	2023	P100G	1104	PA330A	1104	PD135	1104
OA2249	565	OC206	2023	OC-615	2007	P1D	2023	P100J	1104	PA330B	1104	PD137	1102
OA2270	561	OC207	2023	OC615	2007	P1D5	1104	P150A	1104	PA340	1104	PD154	1104
OA2272	562	OC302	2007	OC615N	2007	P1E	2043	P150B	1104	PA340A	1104	PD155	1104
OA2273	563	OC303	2007	OC700	2023	P1E-1BLK	2043	P150D	1104	PA340B	1104	PD910	1104
OC3H	2007	OC304	2007	OC700A	2023	P1E-1BLU	2043	P150G	1104	PA350	1104	PD913	1114
OC4H	2007	OC304/1	2007	OC700B	2023	P1E-1GRN	2043	P150J	1104	PA350A	1104	PD914	1114
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OC32	2007	OC304-1	2007	OC702A	2023	P1E-1VIO	2043	P346	2010	PA360A	1104	PD916	1114
OC33	2007	OC304-2	2007	OC702B	2023	P1E-2BLK	2043	P400	1104	PD1001	1114	PD1001	2009
OC-34	2007	OC304-3	2007	OC704	2023	P1E-2BLU	2043	P480A0018	2030	PA400	1104	PD1002	2009
OC34	2007	OC304N	2007	OC711	2007	P1E-2GRN	2043	P480A0022	2023	PA600	1104	PD1011	1171
OC-38	2007	OC305	2007	OC740	2023	P1E-2RED	2043	P480A0023	2023	PA1000	2023	PD6006	565
OC38	2007	OC305-1	2007	OC740G	2023	P1E-2VIO	2043	P480A0027	2023	PA1001	2023	PD6007	565
OC40	2007	OC305-2	2007	OC740M	2023	P1E-3BLK	2043	P480A0028	2009	PA1001A	2023	PD6007A	565
OC41	2007	OC306	2007	OC740O	2023	P1E-3BLU	2043	P480A0029	2009	PA7001/0001	2009	PD6009	561
OC41A	2007	OC306/1	2007	OC742	2023	P1E-3GRN	2043	P580	1114	PA7001/521	1801	PD6009A	561
OC41N	2007	OC306/2	2007	OC742G	2023	P1E-3RED	2043	P600	1104	PA7001/526	1801	PD6013	562
OC42	2007	OC306/3	2007	OC742M	2023	P1E-3VIO	2043	P800	1114	PA7001/527	1802	PD6013A	562
OC42N	2007	OC306-1	2007	OC742O	2023	P1H	2023	P1000	1114	PA7615	1104	PD6016	563
OC43	2007	OC306-2	2007	OC810	2007	P1J	2023	P1000A	2023	PA8260	2016	PD6016A	563
OC43N	2007	OC306-3	2007	OC-975	2007	P1L	2007	P1055	1123	PA8261	564	PD-6018	564
OC-44	2007	OC-307	2007	OC7400	2023	P1L4956	2007	P1172	1102	PA8543	2016	PD6018	564
OC44	2007	OC307	2007	OC7420	2023	P1N	2023	P1172-1	1102	PA8645	1104	PD-6018A	564
OC44N	2007	OC307-1	2007	OF-129	2007	P1N-1	2023	P1901-48	2016	PA9004	2016	PD6018A	564
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OC45	2007	OC307-3	2007	OF156	1102	P1N-3	2023	P1901-70	2023	PA9006	2009	PD6050	561
OC45N	2007	OC-308	2007	OF160	1104	P1P	2023	P2271	2041	PA9154	2007	PD6054	562
OC-46	2007	OC308	2007	OF162	1102	P1P-1	2023	P2440	1114	PA9155	2007	PD6057	563
OC46	2007	OC309	2007	OF164	1104	P1V-4	2027	P3139	2041	PA9156	2007	PD-6059	564
OC46N	2007	OC309-1	2007	OF173	1123	P1W	2023	P4069	2030	PA9157	2007	PD6059	564
OC-47	2007	OC309-2	2007	OG-30L125	1104	P2A	2023	P4326	1102	PA9160	1104	PE-401	1104
OC47	2007	OC309-3	2007	O-15551	2061	P2A5	1104	P5034	2041	PA9267	561	PE401	1104
OC47N	2007	OC-318	2007	ON047204-2	2009	P2B	2027	P5100	1114	PA-10554	2010	PE401N	1104
OC50	2007	OC318	2007	ON67A	1123	P2B5	1104	P5149	2041	PA10556	1104	PE402	1104
OC53	2007	OC320	2007	ON174	2007	P2C5	1104	P5152	2009	PA10880	2007	PE403	1104
OC54	2007	OC-330	2007	ON271	2009	P2D5	1104	P5153	2009	PA10887	1104	PE404	1104
OC55	2007	OC330	2007	ON274	2009	P2E	2023	P-6006	1102	PADT20	2007	PE405	1104
OC56	2007	OC331	2007	ON47204-1	2009	P2G	2023	P6786	2030	PADT21	20		

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PE5031	2010	PL-151-045-9-002	1102	PN929	2016	PS611	1104	PT720	2009	PXC-101	2007
PEP2	2009	PL-151-045-9-004	1104	PN930	2009	PS615	1104	PT850	2030	PXC101	2007
PEP5	2009	PL-152-044-9-001	562	PN930(NSC)	2009	PS616	1104	PT850A	2030	PXC101A	2007
PEP6	2009	PL-152-047-9-001	561	PN930(NTLB)	2009	PS617	1104	PT851	2009	PXC-101AB	2007
PEP7	2009	PL-152-051-9-001	562	PN1613	2030	PS621	1104	PT855	2007	PXC101AB	2007
PEP8	2009	PL-152-052-9-002	561	PN1711	2030	PS622	1104	PT856	2007	PY-5	1104
PEP9	2009	PL-172-010-9-001	2020	PN2222	2009	PS623	1104	PT886	2009	Q-00269	2009
PEP9S	2060	PL-172-014-9-001	2020	PN2369	2009	PS627	1104	PT887	2009	Q-00269A	2009
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QRT-139	2055	R0080	1114	R104-7	2007	R1035	1104	R5048	2030	R8314	1102	RA2	1114
QRT-140	2055	R0081	1114	R104-8	2007	R1106	1123	R5051	2007	R8364	563	RA2C	1114
QRT-144	2060	R0082	1114	R118	2010	R1107	1123	R5052	2007	R8470	1104	RA132AA	1114
QRT-146	2020	R0086	1114	R-119	2007	R1109	1123	R5053	2007	R8473	1104	RA132BA	1104
QRT-152	2020	R0090	1114	R119	2007	R1215(HEP)	1067	R5055	2007	R8475	1123	RA132DA	1114
QRT-153	2027	R0091	1114	R-120	2007	R1217(HEP)	1067	R5096	1123	R8477	1101	RA132MA	1114
QRT-154	2020	R0094	1114	R120	2007	R1							

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RCA1A17	2030	RD15FA	564	RE171	1067	REN5401	1067	RH-DX0008CEZZ	1104	RR8119	2010
RCA1A18	2030	RD15FB	564	RE174	1020	REN5404	1067	RH-DX0014-CEZZ	1104	RR8914	2009
RCA1B06	2041	RD15M	564	RE179	1001	REN5454	1067	RH-DX0025CEZZ	1104	RR8989	2010
RCA1C05	2020	RD15S	564	RE182	1001	REN5455	1067	RH-DX0025AGZZ	1104	RR8999	2010
RCA1C07	2020	RD16AM	564	RE185	1000	REN5457	1020	RH-DX0033TAZZ	1103	RR824-06	1104
RCA1C09	2020	RD-16H	564	RE192	2016	REN5640	1001	RHD-X0033TAZZ	1102	RS-05	1141
RCA1C10	2020	RD16H	564	RE193	2020	REN5641	1001	RH-DX0038CEZZ	1104	RS1FM-12	1104
RCA1C14	2020	RD-16HA	564	RE205	2020	REN5642	1000	RH-DX0041CEZZ	1104	RS10	1104
RCA29	2020	RD51EB	565	RE207	2061	REN7400	1801	RH-DX0042CEZZ	1104	RS-101	2007
RCA29/SDH	2020	RD-91	562	RE222	2020	RET20	1104	RH-DX0043TAZZ	1104	RS-103	2007
RCA29A	2020	RD-91E	562	RE228	2060	RF-1A	1104	RHD-X0043TAZZ	1104	RS-107	2009
RCA29A/SDH	2020	RD91E	562	RE233	2055	RF200	2016	RH-DX0046CEZZ	1102	RS-108	2009
RCA29ASDH	2020	RD-96	562	RE235	2023	RF1811	1123	RH-DX0048CEZZ	1103	RS-109	2010
RCA29B	2020	RD250	1104	RE255	1171	RF-3160	1104	RH-DX0054CEZZ	1102	RS-110	2023
RCA29BSDH	2020	RD1343	1102	RE258	2041	RF3160	1104	RH-DX0055TAZZ	1104	RS128	2009
RCA29C	2020	RD-3472	1104	RE260	2058	RF3472	1104	RH-DX0056CEZZ	1104	RS132	2030
RCA29CSDH	2020	RD3472	1104	RE261	2059	RF5794	1101	RH-DX0059TAZZ	1104	RS136	2009
RCA29SDH	2020	RD9037	1104	RE263	2059	RF-6235-1	1104	RH-DX0064CEZZ	1104	RS220AF	1104
RCA30	2027	RD-26235-1	1104	RE305-IC	1759	RF26231-1	1104	RH-DX0066TAZZ	1104	RS230AF	1104
RCA30A	2027	RD26235-1	1104	RE-310-IC	1757	RF26234-1	1104	RH-DX0067TAZZ	1104	RS-253C	1102
RCA31	2020	RD-29799P	1104	RE310-IC	1757	RF26235-1	1104	RH-DX0068TAZZ	1104	RS-253S	1102
RCA31A	2020	RD29799P	1104	RE-321-IC	706	RF26235-2	1104	RH-DX0069TAZZ	1104	RS-2675	1102
RCA31ASDH	2020	RD-31903P	1104	RE321-IC	706	RF26235-5	1104	RH-DX0072CEZZ	1104	RS-272US	1102
RCA31B	2020	RD31903P	1104	RE357-IC	705	RF29799P	1104	RH-DX0073CEZZ	1104	RS-279US	2016
RCA31BSDH	2020	RE1	2007	RE1001	2010	RF31903P	1104	RH-DX0073TAZZ	1104	RS-2805	1102
RCA31C	2020	RE2	1104	RE1002	2010	RF-32101-8	1104	RH-DX0079TAZZ	1104	RS322	2007
RCA31CSDH	2020	RE-3	2007	RE2001	2016	RF32101-8	1104	RH-DX0081TAZZ	1104	RS380	706
RCA31SDH	2020	RE3	1104	RE2002	2016	RF32101-9	1104	RH-DX0083CEZZ	1104	RS-406	2007
RCA41A	2020	RE-4	2007	RE3001	2010	RF-32101R	1104	RH-DX0086TAZZ	1104	RS406	2007
RCA41B	2020	RE4	2007	RE3002	2010	RF32101R	1104	RHD-X0086TAZZ	1104	RS555	1723
RCA41C	2020	RE-9	2010	RE4001	2016	RF32412-3	1104	RH-DX0091CEZZ	1114	RS593	2007
RCA120	2068	RE9	2010	RE4002	2016	RF32645	1104	RH-DX0100CEZZ	1104	RS-684	2007
RCA121	2068	RE-10	2010	RE4010	2016	RF33550-1	1123	RH-DX0101-CEZZ	1104	RS684	2007
RCA3054	2020	RE10	2010	RE5001	2016	RF33976	1104	RH-DX0101CEZZ	1104	RS-685	2007
RCA3055	2020	RE-12	2009	RE5002	2016	RF34383	1104	RHD-X0101CEZZ	1104	RS685	2007
RCA3517	2007	RE12	2009	RECT-SI-154	1104	RF34661	1102	RH-DX0105TAZZ	1104	RS-686	2007
RCA3858	2007	RE-13	2009	RECT-SI-1001	1104	RF34720	1104	RH-DX0106CEZZ	1104	RS686	2007
RCA34098	2007	RE13	2009	RECT-SI-1002	1104	RF35123	1123	RH-DX0114CEZZ	1104	RS-687	2007
RCA34099	2007	RE15	2007	RECT-SI-1005	1104	RF60034	1123	RH-DX0123CEZZ	1104	RS687	2007
RCA34100	2007	RE-17	2030	RECT-SI-1020	1104	RFA70597	1104	RHD-X0123CEZZ	1104	RS-805US	2016
RCA34101	2007	RE17	2030	REJ70643	1104	RFA70600	1104	RH-DX0142CEZZ	1103	RS1049	2009
RCA34106	2007	RE-19	2041	REJ70931	1104	RF61197	1104	RH-DX1005AFZZ	1104	RS1059	2009
RCA35953	2007	RE19	2041	REJ71253	1102	RFJ6134	1104	RH-DY0003SEZZ	1104	RS-1192	2007
RCA35954	2007	RE-21	2020	REN60	2061	RFJ-30704	1104	RH-EX002YTAZZ	565	RS1192	2007
RCA40245	2016	RE21	2020	REN61	2043	RFJ30704	1104	RH-EX0015CEZZ	563	RS-1264	1104
RCA40246	2016	RE-26	2023	REN62	2023	RFJ-31218	1104	RH-EX0024CEZZ	561	RS-1264	1104
RCA40395	2007	RE26	2023	REN63	2023	RFJ31218	1104	RH-EX0024TAZZ	565	RS1264	1104
RCA40396P	2007	RE-27	2007	REN64	2016	RFJ-31362	1104	RH-EX0038CEZZ	563	RS1290	562
RCA44098	2007	RE27	2007	REN66	2061	RFJ31362	1104	RH-EX0047CEZZ	563	RS1296	1104
RCC-7022	1104	RE-28	2016	REN67	2016	RFJ-31363	1104	RH-IX0012PAZZ	1802	R-S1347	1104
RCC7022	1101	RE28	2016	REN69	2007	RFJ31363	1104	RH-IX0014PAZZ	1770	RS-1347	1104
RCC7225	1104	RE31	2055	REN70	2030	RFJ-33292	1104	RH-IX0017TAZZ	1759	RS1347	1104
RCS242	2041	RE-32	2055	REN90	1114	RFJ33292	1104	RH-IX0043CEZZ	1759	RS1348	563
RD-3	1104	RE32	2055	REN94	1103	RFJ60033	1124	RH4010658	1103	RS1428	1102
RD3A-1B4	1104	RE-33	2060	REN100	2007	RFJ60172	1123	RKZ12003	1103	RS1458	038
RD-5A	565	RE33	2060	REN102	2007	RFJ60173	1104	RKZ120101	1103	RS-1539	2007
RD5AN	565	RE-47	1104	REN102A	2007	RFJ60174	1104	RL005	1114	RS1539	2007
RD5B	565	RE47	1123	REN107	2010	RFJ60286	1104	RL010	1114	RS-1540	2007
RD5R1EBB1	565	RE48	1124	REN108	2010	RFJ-60366	1104	RL020	1114	RS1540	2007
RD5-1E	565	RE-49	1104	REN109	1123	RFJ60366	1104	RL040	1114	RS-1541	2007
RD5-1EB	565	RE49	1104	REN112	1124	RFJ60614	1123	RL060	1114	RS1541	2007
RD5-1EB2	565	RE-51	1114	REN114	1101	RFJ60869	1104	RL31	1123	RS-1542	2007
RD5-1EC	565	RE51	1114	REN115	1101	RFJ70147	1144	RL32	1123	RS1542	2007
RD5-1F	565	RE-52	1104	REN116	1104	RFJ70432	1104	RL32G	1123	RS-1543	2007
RD5-1JB	565	RE52	1102	REN120	1101	RFJ70487	1104	RL34	1123	RS1543	2007
RD-6L	561	RE60	2061	REN123	2009	RFJ70643	1101	RL34G	1123	RS-1544	2007
RD6-2FA	561	RE-61	2043	REN123A	2009	RFJ70703	1104	RL41	1123	RS1544	2007
RD6-2FB	561	RE61	2043	REN125	1114	RFJ70931	1104	RL41G	1123	RS1545	2007
RD7H	561	RE62	2023	REN126	2007	RFJ70970	1104	RL42	1123	RS-1546	2007
RD8H	562	RE63	2023	REN128	2030	RFJ70974	1104	RL52	1123	RS1546	2007
RD9	562	RE64	2016	REN130	2041	RFJ70977	1104	RL232G	1123	RS-1548	2007
RD9A	562	RE66	2009	REN135	565	RFJ71122	1104	RL246	1123	RS1548	2007
RD9A(10)	562	RE67	2016	REN137	561	RFJ71123	1114	RL252	1123	RS-1550	2007
RD-9A(L)	562	RE69	2007	REN139	562	RFJ71480	562	RLB-17	2016	RS1550	2007
RD-9AL	562	RE70	2030	REN142	563	RFJ72360	1104	RLF1G	1104	RS-1554	2007
RD9A-N	562	RE72	2023	REN145	564	RFJ72787	1104	RAM1	1104	RS1554	2007
RD-9L	562	RE78	2061	REN152	2020	RFJ711122	1104	RAM1A	1104	RS-1555	2007
RD-9I	562	RE-82	2043	REN153	2027	RFJZ0432	1104	RAM-TAV	1104	RS1555	2007
RD9-1E	562	RE82	2043	REN156	1114	RFL-30596	1104	RAM1B	1114	R-S-1720	1104
RD9-1ED	562	RE-88	1101	REN159	2023	RFL30596	1104	RAM1C	1114	RS1720	1104
RD9-1EK	562	RE88	1101	REN160	2007	RFM-33160	1104	RAM-1V	1104	RS1726	2010
RD9-1F	562	RE-89	1101	REN161	2016	RFM33160	1104	RAM1Z	1104	RS1749	1104
RD9-1FA	562	RE89	1101	REN164	2055	RFP-33118	1104	RAM1ZM	1104	R-S1805	1144
RD9-1FB	562	RE-90	1114	REN165	2055	RFP33118	1104	RAM-1ZV	1104	RS1805	1104
RD9-1JA	562	RE90	1114	REN166	1171	RFV60500	1104	RAM1ZV	1104	RS1811	1123
RD11EC	563	RE91	1101	REN172	2060	RG100B	1104	RAM2	1104	RS1832	1104
RD12	563	RE92	1114	REN172A	2060	RG100D	1104	RAM2A	1114	RS-2002	2007
RD12E	563	RE-94	1122	REN177	1102	RG100G	1104	RAM-2AV	1114	RS-2003	2007
RD12EA	563	RE94	1103	REN194	2061	RG100J	1114	RAM2B	1114	RS-2004	2007
RD12EB	563	RE105	565	REN196	2020	RG1004	1104	RAM2C	1114	RS-2005	2007
RD12EB1Z	563	RE-107	561	REN199	2016	RG1127	1104	RAM2Z	1104	RS2008	2061
RD12EB2Z	563	RE-109	561	REN219	2043	RGP-10B	1104	RAM10M	1114	RS-2009	2009
RD12EC	563	RE109	561	REN229	2058	RGP-10D	1104	RAM-26	1104	RS2009	2009
RD12F	563	RE-114	562	REN233	2059	RH-1	1104	RAM3005	2020	RS2010	2009
RD12FA	563	RE114	562	REN234	2023	RH1	1104	RAMP5020	1104	RS-2011	2016
RD12FB	563	RE-115	562	REN238	2055	RH-1BV	1104	RAMVTC00921-3	1101	RS2012	2061
RD12FB3	563	RE-116	563	REN280	2041	RH1M	1114	RO2A	1114	RS-2013	2009
RD12M	563	RE-118	563	REN287	2061	RH-1V	1104	RO102	1104	RS-2014	2030
RD13AL	563	RE118	563	REN289	2059	RH-1X0038CEZZ	1759	RP-9A	562	RS-2015	2010
RD13K	563	RE-119	563	REN290	2023	RH-1X0043CEZZ	1759	RQ-4095	1104	RS-2016	2009
RD-15E	564	RE-121	564	REN291	2020	RH-1Z	1104	RQ-4445	2058	RS2016	2009
RD15E	564	RE121	564	REN712	1759	RH1Z	1104	RR7504	2009	RS2017	2020
RD15EA	564	RE-122	564	REN740</							

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RS-3316-1	2007	RS5301	2007	RS-5731	2007	RS-7105	2009	RS7406	2009	RS9511	2010
RS3316-1	2007	RS5302	2007	RS5731	2007	RS7105	2009	RS7407	2009	RS9512	2010
RS-3316-2	2007	RS5303	2007	RS5732	2007	RS-7106	2010	RS7408	2009	RS15048	2009
RS3316-2	2007	RS-5305	2007	RS-5733	2007	RS7106	2010	RS7408(IC)	1822	RS-57042	2007
RS-3318	2007	RS5305	2007	RS5733	2007	RS-7107	2010	RS-7409	2009	RS57042	2007
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RS-3322	2007	RS5306	2007	RS5734	2007	RS-7108	2010	RS7410	2009	RS57062	2007
RS3322	2007	RS5311	2007	RS5735	2007	RS7108	2009	RS-7411	2009	RS57433	2007
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RS3324	2007	RS-5313	2007	RS5737	2007	RS7110	2010	RS-7413	2009	RT-100	2009
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RS3727	1104	RS5403	2007	RS5743	2007	RS-7115	2010	RS7504	2009	RT104	2009
RS3857	2007	RS-5406	2007	RS-5743-1	2007	RS7115	2010	RS7510	2009	RT-105	2016
RS-3862	2007	RS5406	2007	RS5743-1	2007	RS7116	2010	RS-7511	2009	RT105	2009
RS3862	2007	RS-5502	2007	RS-5743-2	2007	RS7117	2010	RS7511	2010	RT-106	2061
RS-3863	2007	RS5502	2007	RS5743-2	2007	RS7118	2010	RS-7512	2010	RT106	2023
RS3863	2007	RS5503	2007	RS-5743-3	2007	RS7119	2010	RS7512	2010	RT-107	2016
RS3864	2007	RS-5504	2007	RS5743-3	2007	RS7120	2010	RS7513	2009	RT107	2010
RS-3866	2007	RS5504	2007	RS5743-3	2007	RS7121	2009	RS7513-15	2009	RT-108	2016
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RS-3867	2007	RS5505	2007	RS5744	2007	RS7123	2010	RS7515	2009	RT-108A	1104
RS-3868	2007	RS-5506	2007	RS-5744-3	2007	RS-7124	2009	RS7516	2009	RT-109	2061
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RS-3892	2007	RS-5511	2007	RS5746	2007	RS7126	2010	RS7518	2009	RT112	2010
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RS3898	2007	RS-5531	2007	RS5749	2007	RS-7129	2009	RS7522	2010	RT114	2009
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RS-3901	2007	RS5532	2007	RS-5752	2007	RS7133	2009	RS7525	2009	RT126	2009
RS3901	2007	RS-5533	2007	RS5752	2007	RS7135	2010	RS7526	2009	RT-126A	2023
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RS3902	2007	RS-5534	2007	RS5753	2007	RS7138	2010	RS7528	2009	RT131	2041
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RS3903	2007	RS-5535	2007	RS5753-2	2007	RS7140	2010	RS7530	2009	RT-134	2016
RS-3904	2007	RS5535	2007	RS-5754	2007	RS7141	2010	RS7532	2010	RT-139	2055
RS3904	2007	RS-5536	2007	RS5754	2007	RS7142	2010	RS7533	2010	RT-140	2055
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RS3906	2007	RS-5540	2007	RS5755	2007	RS7144	2010	RS7543	2009	RT141	2030
RS-3907	2007	RS5540	2007	RS-5756	2007	RS7145	2010	RS7544	2009	RT-144	2060
RS3907	2007	RS-5541	2007	RS5756	2007	RS7160	2009	RS7555	2009	RT-150	2020
RS-3911	2007	RS5541	2007	RS-5757	2007	RS7161	2010	RS7568	2007	RT150	2020
RS3911	2007	RS-5542	2007	RS5757	2007	RS7162	2010	RS-7606	2009	RT-151	2027
RS3912	2007	RS5542	2007	RS-5758	2007	RS7163	2010	RS7606	2009	RT151	2027
RS-3913	2007	RS5543	2007	RS5758	2007	RS7164	2010	RS-7607	2009	RT-154	2041
RS3913	2007	RS-5544	2007	RS-5759	2007	RS7165	2010	RS7607	2009	RT154	2030
RS-3914	2007	RS5544	2007	RS5759	2007	RS7166	2010	RS-7609	2009	RT-155	2027
RS3914	2007	RS5545	2007	RS-5760	2007	RS7167	2010	RS7609	2009	RT155	2027
RS-3915	2007	RS-5551	2007	RS5760	2007	RS7168	2010	RS-7610	2009	RT-158	2020
RS3915	2007	RS5551	2007	RS-5761	2007	RS7169	2010	RS7610	2009	RT-172	1104
RS-3925	2007	RS-5552	2007	RS5761	2007	RS7170	2010	RS-7611	2009	RT-183	2007
RS3925	2007	RS5552	2007	RS-5762	2007	RS7173	2009	RS7611	2009	RT-185	2007
RS-3926	2007	RS-5553	2007	RS5762	2007	RS7174	2010	RS-7612	2009	RT185	2007
RS3926	2007	RS5553	2007	RS5765	2007	RS7175	2010	RS7612	2009	RT-187	2009
RS-3929	2007	RS-5554	2007	RS5766	2007	RS7176	2010	RS-7613	2009	RT-188	2030
RS3929	2007	RS5554	2007	RS5767	2007	RS7177	2010	RS7613	2009	RT188	2030
RS3986	2007	RS-5555	2007	RS5768	2007	RS-7201	2010	RS-7614	2009	RT-200	1123
RS3995	2007	RS5555	2007	RS-5802	2007	RS7201	2010	RS7614	2009	RT-202	1124
RS4001	2401	RS-5556	2007	RS5802	2007	RS-7202	2010	RS7620	2009	RT-203	1114
RS4011	2411	RS5556	2007	RS-5818	2007	RS7202	2010	RS7621	2009	RT-210	1104
RS4013	2413	RS-5557	2007	RS5818	2007	RS7209	2010	RS-7622	2009	RT210	1114
RS4017	2417	RS5557	2007	RS5825	2007	RS7210	2010	RS7622	2009	RT-212	1104
RS4049	2449	RS-5558	2007	RS-5851	2009	RS7211	2010	RS-7623	2009	RT-213	1104
RS-5008	2007	RS5558	2007	RS5851	2009	RS-7212	2010	RS7623	2009	RT213	1104
RS5008	2007	RS5553	2007	RS-5852	2007	RS7212	2010	RS7624	2009	RT-214	1104
RS5101	2007	RS5554	2007	RS5852	2007	RS7214	2010	RS7625	2009	RT214	1104
RS5102	2007	RS5555	2007	RS-5853	2009	RS7215	2010	RS7626	2009	RT-215	1104
RS5103	2007	RS5556	2007	RS5853	2009	RS7216	2010	RS7627	2009	RT215	1104
RS-5104	2007	RS5557	2007	RS-5854	2007	RS7217	2010	RS7628	2009	RT-218	1102
RS5104	2007	RS5558	2007	RS5854	2007	RS7218	2010	RS7634	2009	RT218	1102
RS-5105	2007	RS-5602	2007	RS-5856	2009	RS7219	2010	RS7635	2009	RT-220	1101
RS5105	2007	RS5602	2007	RS5856	2009	RS7220	2010	RS7636	2009	RT-222	1101
RS-5106	2007	RS5603	2007	RS-5857	2009	RS7221	2010	RS7637	2009	RT-223	1101
RS5106	2007	RS5605	2007	RS5857	2009	RS7222	2010	RS7638	2009	RT-235	565
RS-5107	2007	RS5607	2007	RS-6344	1104	RS7223	2009	RS7639	2009	RT235	565
RS5107	2007	RS5608	2007	RS6344	1104	RS7224	2009	RS7640	2009	RT-237	561
RS-5108	2007	RS5610	2007	RS-6461	1104	RS7225	2010	RS7641	2009	RT-240	562
RS5108	2007	RS-5704	2007	RS6461	1104	RS7226	2009	RS7642	2009	RT-243	563
RS-5109	2007	RS5704	2007	RS-6471	1104	RS7227	2010	RS7643	2009	RT-245	564
RS5109	2007	RS5704-2	2007	RS6471	1104	RS7228	2010	RS7645	2023	RT-263	1123
RS-5201	2007	RS-5708	2007	RS6523	2010	RS7229	2010	RS-7645A	2023	RT-267	2009
RS5201	2007	RS5708	2007	RS6705	1104	RS7230	2010	RS7672	2030	RT-268	1114
RS5202	2007	RS-5708-2	2007	RS6821	1104	RS7231	2010	RS7678	2030	RT-269	1104
RS5203	2007	RS5708-2	2007	RS6822	2007	RS7232	2009	RS7814	2009	RT-270	2023
RS5204	2007	RS-5709	2007	RS6824	2007	RS7233	2009	RS8101	2030	RT-302	2059
RS-5205	2007	RS5709	2007	RS6840	2007	RS7234	2009	RS8103	2030	RT-303	2023
RS5205	2007	RS-5711	2007	RS6843	2007	RS7235	2009	RS8105	2030	RT304	2009
RS-5206	2007	RS5711	2007	RS6843A	2007	RS7236	2009	RS8107	2030	RT-308	2016
RS5206	2007	RS-5717	2007	RS6846	2007	RS7237	2010	RS8109	2030	RT-312	2009
RS-5207	2007	RS5717-1	2007	RS6846A	2007	RS7238	2009	RS8111	2030	RT-313	2010
RS5207	2007	RS-5717-3	2007	RS-7102	2010	RS7241	2010	RS8113	2030	RT-315	2061
RS-5208	2007	RS5717-3	2007	RS-7103	2009	RS7242	2009	RS8421	2007	RT476	2009
RS520											

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RT5208	2016	RT7849	1104	RVD2DP22/1B	1104	S074-007-001	1102	S-1.5-10	1114	S-12A	1143
RT5213	1123	RT7890	1104	RVD2DP221B	1171	S082A	1124	S-2	1104	S13	1104
RT5214	1123	RT7851	1123	RVD2DP221P	1104	S088	2007	S2A06	1104	S13A	1144
RT5217	1102	RT7943	2009	RVD2P22/1B	1104	S-0501	1104	S2A10	1104	S14	1104
RT5285	1104	RT7945	2030	RVD4B265J2	1104	S0501	1104	S2A20	1143	S14A	1144
RT5401	2030	RT7946	1102	RVD8MB4	1171	S0702	562	S2A30	1144	S15	1104
RT5402	2030	RT8047	2016	RVD8MB4	1104	S0704	2009	S2A40	1144	S-15-10	1104
RT5403	2030	RT8193	2009	RVD10D1	1104	S017446	2023	S2A06	1141	S15A	1104
RT5404	2030	RT8195	2009	RVD10DC1	1104	S019843	2023	S2AR1	1104	S16	1104
RT5435	2016	RT8197	2009	RVD10DC1R	1104	S022010	2009	S2AR2	1104	S16A	1104
RT5464	2010	RT8198	2009	RVD10E1	1104	S022011	2009	S2C30	1104	S16B	1104
RT5465	2010	RT8201	2009	RVD10E1LF	1104	S022012	2023	S2C40	1104	S-17	1104
RT5466	2007	RT8231	1104	RVD10E11F	1104	S023735	2023	S2C40A	1104	S17	1104
RT5467	2007	RT8330	2009	RVD12B-1	1171	S024428	2009	S2CN1	1143	S-17A	1104
RT5468	2007	RT8332	2009	RVD0C8P1	1104	S024987	2009	S2D153	2020	S17A	1104
RT5472	1104	RT8333	2058	RVD124B	1171	S025232	2009	S2E20	1104	S18	1104
RT5520	2007	RT8335	2020	RVD1245	1171	S025289	2009	S2E60	1104	S18A	1104
RT5521	2007	RT8336	2027	RVD05-410	1104	S026094	2023	S2E60-1	1104	S18B	1104
RT5522	2007	RT8337	2016	RVDGP05A	1104	S	562	S2E100	1114	S19	1104
RT5551	2009	RT8338	2027	RVDKB162C5	1104	S1-1	1104	S2F10	1104	S19A	1104
RT5554	1102	RT8339	562	RVDKB265J2	1102	S1-801-02	1104	S2F20	1104	S20	1114
RT5637	2007	RT8340	1104	RVDMM209	562	S1-RECT-35	1102	S2GR2	1143	S20ND400	1104
RT5793	561	RT8442	2007	RVD0.4C2211A	1144	S1-RECT-102	1104	S2M1	1143	S20NH400	1114
RT5900	2010	RT8527	2009	RVDRI54B	1171	S1A06	1104	S2M2	1141	S21	1104
RT5901	2009	RT8602	2007	RVDRO5A1E	565	S1A060	1104	S2PB	1171	S22	1104
RT5902	2010	RT8665	1114	RVDRO5R1EB	565	S1A	1104	S2PB10	1152	S22A	1104
RT5903	2010	RT8666	2016	RVDRO11AN	562	S1A3	561	S2PB40	1173	S23	1104
RT5904	2010	RT8668	2010	RVD05277B	1104	S1A60	1104	S2Q20	1104	S23A	1104
RT5905	2016	RT8669	2010	RVDSD-1	1104	S1A80	1114	S2Q40	1104	S24	1114
RT5906	2030	RT8670	2023	RVDSD-1U	1104	S1A100	1114	S2Q60	1104	S26	1104
RT5907	2030	RT8671	1123	RVDSD-1Y	1104	S1AR1	1104	S2Q80	1114	S28	1114
RT5908	1123	RT8840	1104	RVDSD-1Z	1114	S1AR2	1104	S2Q100	1114	S30	1104
RT5909	1102	RT8841	1104	RVD05G-5N	1114	S1B01	1104	S2RB40	1173	S31	1104
RT5911	1104	RT8843	2016	RVD05G-5P	1114	S1B01-01	1104	S2TB	1173	S32	1104
RT5939	1123	RT8895	1123	RVD05RAM2N	1104	S1B-01-02	1104	S2TB10	1152	S33	1104
RT6119	1123	RT61012	1123	RVDVD1250M	1102	S1B01-02	1104	S2TB40	1173	S35	1104
RT6157	2010	RT-61014	2007	RVS25C645	2010	S1B01-06	1104	S2V	1114	S36	1104
RT6158	2010	RT61014	2007	RVTC1381	2009	S1B01-0226	1104	S2VB	1104	S40	1104
RT6159	2010	RT61015	2007	RVTC1382	2023	S1B02	1104	S2VC	1104	S40A	1104
RT6160	2010	RT61016	2007	RVTC1383	2009	S1B02-0	1104	S2VC10	1114	S43	1104
RT6179	1123	RT69221	2009	RVTC1384	2010	S1B02-03C	1114	S2VC10R	1114	S44	1104
RT6180	1123	RTJ0201	1067	RVTC1473	2016	S1B02-06CE	1104	S2Z20	1143	S46	1104
RT6181	1123	RTJ0203	1067	RVTMC00921-3	1101	S1B02-06CRE	1104	S2Z40	1144	S47	1104
RT6182	1123	RTJ0206	1067	RVT22410	2009	S1B02-C	1104	S3A06	1104	S48	1104
RT6183	1123	RTJ0210	1067	RVT22411	2023	S1B02-CR	1104	S3A1	1143	S49	1104
RT6184	1123	RTJ0215	1020	RX090	562	S1B02-0	1104	S3A2	1143	S-55TB	2007
RT6189	1123	RTJ0220	1067	RYN12104	2030	S1B0101CR	1104	S3A3	1144	S61	1114
RT6201	2058	RUI1	1104	RYN121105	2009	S1B0102	1104	S3A4	1144	S62	1114
RT6202	2058	RUIA	1104	RYN121105-3	2009	S1B0201B	1171	S3AR1	1104	S63	1114
RT6203	2010	RUIB	1114	RYN121105-4	2009	S1B0201CR	1104	S3BA05	1141	S65-1-A-3P	2007
RT6204	2058	RUIC	1114	RZ-3	1114	S1B-0306	1114	S65A-1-3P	1144	S65B-1-3P	2007
RT6205	2007	RUIZ	1104	RZ5.1	565	S1B	1104	S65B-1-3P	1114	S65B-1-3P	2007
RT6322	1104	RUIZ	1104	RZ6.2	561	S1B1	1104	S66-1-A-3P	1143	S66-2-A-3P	2007
RT6332	1104	RUIZAM	1104	RZ9.1	562	S1BD1-02	1104	S66-2-A-3P	1143	S66-2-A-3P	2007
RT6400	2010	RUIZAM	1104	RZ12	563	S1C	1114	S66-3-A-3P	1144	S66-3-A-3P	2007
RT6400MHF25	2009	RVD2DP22/1B	1104	RZ15	564	S1CN1	1104	S670T	1144	S-70T	2007
RT6401	2010	RUI06	1104	RZ15A	564	S1D	1114	S670T	1144	S70T	2007
RT6402	2010	RUI06/7825B	1104	RZ-15AB	564	S1D50B851-A	1102	S3M1	1143	S70.00.730	2007
RT6404	2007	RUI1	1104	RZ25.1	565	S1D51C052-19	1104	S-3MX	1104	S70.01.704	2009
RT6405	1104	RUI2	1104	RZ26.2	561	S1D51C169-1	1104	S3MX	1104	S72	1104
RT6419	1123	RV1017	1102	RZ29.1	562	S1D153	2020	S3V20	1114	S73	1104
RT6729	1104	RV1059	2023	RZ12	563	S1G10	1104	S4A06	1104	S74-3-A-3P	2007
RT6732	2010	RV1068	2058	RZ156	564	S1G20	1104	S4A06	1104	S75	1104
RT6733	2058	RV1180	2007	S0002	2059	S1G40	1104	S4AR1	1104	S77	1104
RT6734	2007	RV1189	1104	S0015	2009	S1G40Z	1104	S4AR2	1104	S79	1104
RT6735	2007	RV1226	1102	S0016	2010	S1G60Z	1104	S4AR30	1104	S-80T	2007
RT6736	2007	RV1395	2059	S0020	2010	S1GR2	1143	S4C	1104	S81	1104
RT6737	2058	RV1424	1104	S0021	2010	S1L200	1104	S4CN1	1143	S82	1104
RT6787	2058	RV1467	2010	S0022	2009	S1M	1141	S4FN300	1104	S83	1104
RT6791	1104	RV1468	2010	S0023	2016	S1M1	1141	S4GR2	1143	S84	1104
RT6921	2009	RV1469	2010	S0024	2059	S1M2	1141	S4M1	1144	S85	1104
RT6921MHF25	2009	RV1470	2010	S0025	2009	S1QB10	1182	S4VB40	1173	S86	1104
RT-6922	565	RV1471	2009	S0026	2023	S1QB40	1173	S5AR1	1104	S-87TB	2007
RT6922	565	RV1473	2030	S001465	2016	S1QB40Z	1173	S5AR2	1104	S87TB	2007
RT6988	2007	RV1474	2009	S001466	2009	S1R12B	563	S5CN1	1144	S88B-1-3P	2007
RT6989	2009	RV1475	2007	S001683	2030	S1R13B	563	S5M1	1144	S88C-1-3P	2007
RT6990	2007	RV1476	1144	S006793	2016	S1R20	1102	S-55	1104	S-88TB	2007
RT6991	2010	RV1478	1104	S006927	2016	S1R60	1104	S55	1104	S88TB	2007
RT7320	2010	RV1479	1123	S007220	2030	S1R80	1104	S-55R	1104	S91	1104
RT7321	2010	RV2070	2016	S007764	2016	S1RB	1171	S55R	1104	S91-A	1104
RT7322	2009	RV2071	1102	S0-4295-10	2041	S1RB-10	1171	S6-3	1171	S91-H	1104
RT7323	2010	RV2072	1104	S01	2007	S1RB10	1171	S6AR1	1104	S91A	1141
RT7324	2010	RV2213	562	S02	2007	S1RB40	1173	S6AR2	1104	S91B	1143
RT7325	2009	RV2220	1104	S03	2007	S1RB40Z	1173	S6BR2	1114	S91H	1104
RT7326	2009	RV2248	2016	S04	1102	S1RBA10	1152	S7-8	1102	S92	1104
RT7327	2009	RV2249	2009	S04-1	1102	S1RBA40	1173	S7AR1	1114	S92-A	1104
RT7330	1123	RV2250	1104	S04A-1	1102	S1RBA40Z	1173	S7BR2	1114	S92-H	1104
RT7401	2007	RV2260	2023	S04B-1	1102	S1RC20	1104	S8-06	1114	S92A	1141
RT7402	1171	RV-2289	1104	S-05	1104	S1RC20R	1104	S8-10	1114	S92H	1104
RT7511	2009	RV2289	1104	S05	1104	S1S2	1102	S8AR1	1114	S93	1104
RT7514	2009	RV2327	1104	S-05/01	1114	S1S11	1123	S8AR2	1114	S93A	1104
RT7515	2009	RV2351	2023	S-05-005	1104	S1S20	1123	S8BR2	1114	S93H	1104
RT7517	2009	RV2353	2023	S-05-01	1104	S1SD-1	1104	S8P-2-A-3P	2007	S93SE133	2041
RT7518	2009	RV2354	2016	S-05-02	1104	S1SD-1HF	1104	S9AR1	1114	S93SE165	2041
RT7528	2009	RV2355	2023	S-05-04	1104	S1SD-1X	1104	S9BR2	1114	S93.24.401	1123
RT7539	561	RVD08C22/1A	1104	S-05-06	1104	S1SM-150-01	1104	S9L-4-A-3P	2007	S93.24.601	1123
RT7557	2016	RVD0.8C22/1A	1104	S-05-08	1114	S1SM-150-02	1104	S-10	1104	S93.24.604	1123
RT7559	2016	RVD1E1LF	1104	S-05-10	1114	S1SW-05-02	1104	S10	1104	S94	1104
RT7634	1104	RVD1K110	1123	S010G	1114	S-1.5	1104	S10A	1104	S95	1104
RT7636	1123	RVD1N34A	1123	S025	2007	S1.5	1104	S10AR1	1114	S100	1114
RT7638	2009	RVD1N4739	562	S031A	2009	S-1.5-0	1104	S10AR2	1114	S101	1104
RT7649	1123	RVD1S554	1104	S037	2009	S1.5-01	1104	S10B01-02	1104	S102	1104
RT7703	2058	RVD2-1K110	1123	S-050	1104	S-1.5-02	1104	S10BR2	1114	S-102V	1104
RT7704	2010	RVD2DP	1104	S065A	2007	S-1.5-04	1104	S11	1102	S103	1104
RT7845	2009	RVD2DP22/1B	1104	S074-005-0001	1103	S-1.5-06					

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S1037	2010	S1405	2009	S2042C	1020	S-5277B	1104	S95201	2007	SA17F	2007
S1040	1144	S1408	2010	S2062F	1067	S5277B	1067	S95202	2009	SA17G	2007
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S1041-16GN	2010	S1419	2009	S2085	1123	S5327E	2010	S95204	2007	SA17R	2007
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S1047	2023	S1421	2030	S2091	2023	S5328E	2010	S95207	2007	SA17X	2007
S1058	2010	S1428	1102	S2118	2030	S-5670-E	2010	S95214	2007	SA17Y	2007
S-1059	2010	S1429-3	2009	S2121	2009	S5670E	2010	S95218	2007	SA18A	2007
S1059	2010	S1432	2009	S2122	2009	S6005	1104	S99101	2007	SA18B	2007
S-1060	2010	S1443	2009	S2123	2009	S6142	1020	S99102	2007	SA18C	2007
S-1061	2009	S1453	2009	S2124	2009	S6142C	1020	S99103	2007	SA18D	2007
S1061	2009	S1475	2009	S2128	2023	S6142G	1020	S99104	2007	SA18E	2007
S-1062	2010	S1476	2009	S2129	2023	S6801	2009	S99201	2007	SA18F	2007
S1062	2010	S1477	2023	S2131	2010	S6804	2030	S99203	2007	SA18G	2007
S-1065	2009	S1487	2009	S2132	2010	S7006(HEP)	2027	S99218	2007	SA18L	2007
S1065	2009	S1502	2009	S2133	2010	S8856	1124	S326690	2010	SA18M	2007
S-1066	2009	S1510	2009	S2134	2010	S9100	2060	S413796	2007	SA18R	2007
S1066	2009	S-1512	2009	S2159	2010	S9516	2007	S1977634	2041	SA18T	2007
S-1068	2009	S1512	2009	S2171	2009	S9524	2007	S2041635	2007	SA18X	2007
S1068	2009	S1514	2030	S2172	2009	S9631	2009	SA18M1	1143	SA18Y	2007
S1069	2009	S1516	2030	S2209	2030	S9923	2007	SA-2	1114	SA19A	2007
S1074	2009	S1517	2030	S2224	2010	S10149	1104	SA2	1104	SA19B	2007
S1074(R)	2009	S1523	2030	S2225	2009	S12020-04	2020	SA-2A	1114	SA19C	2007
S1074R	2009	S1525	2030	S2241	2041	S15649	2009	SA-2B	1114	SA19D	2007
S1076	2010	S1526	2009	S2369	2030	S15650	2016	SA2B	1104	SA19E	2007
S-1078	2010	S1527	2009	S2371	2030	S15657	2016	SA-2C	1114	SA19F	2007
S1078	2010	S1529	2009	S2392	2041	S15658	2016	SA2H	1114	SA19G	2007
S-1079	2010	S1530	2009	S2397	2009	S15659	2016	SA2M1	1143	SA19M	2007
S1079	2010	S-1533	2009	S2400	2030	S15660	2030	SA-2Z	1114	SA19M	2007
S1080(TRANSISTOR)	2009	S1533	2009	S2400A	2030	S17900	2030	SA2Z	1114	SA19R	2007
	2009	S-1559	2009	S2400B	2030	S18000	2030	SA3B	1104	SA19T	2007
S1122	2010	S1559	2009	S2401	2030	S18100	2023	SA3M1	1144	SA19X	2007
S1126	2010	S1568	2009	S2401A	2030	S18200	2030	SA8-1-A-3P	2007	SA19Y	2007
S-1128	2009	S1570	2009	S2401B	2030	S19386	2030	SA12A	2007	SA20A	2007
S1128	2009	S1600	1104	S2401C	2030	S-21271	1123	SA12B	2007	SA20B	2007
S1142	2010	S1619	2009	S2402	2030	S21271	1123	SA12C	2007	SA20C	2007
S-1143	2009	S1620	2009	S2402A	2030	S21549	2030	SA12D	2007	SA20D	2007
S1143	2009	S1629	2009	S2402B	2030	S21639	562	SA12E	2007	SA20E	2007
S-1153	2010	S1636	2010	S2402C	2030	S21648	2010	SA12F	2007	SA20F	2007
S1153	2010	S1639	2007	S2403B	2041	S22543	2009	SA12G	2007	SA20G	2007
S1201F	1114	S1640	2007	S2403C	2041	S23130	2023	SA12L	2007	SA20L	2007
S1210	1143	S1642	2030	S2427	2030	S23579	2009	SA12M	2007	SA20M	2007
S1220	1143	S1644	2030	S2438	2058	S24226	2023	SA12R	2007	SA20R	2007
S-1221	2009	S1671	2030	S2471	2041	S24591	2009	SA12T	2007	SA20T	2007
S1221	2009	S1674	2010	S2487	2030	S24592	2016	SA12X	2007	SA20X	2007
S-1221A	2009	S1674A	2010	S2525	2023	S24596	2009	SA12Y	2007	SA20Y	2007
S1221A	2009	S1682	2010	S2526	2030	S24598	2030	SA13A	2007	SA21A	2007
S1226	2009	S1683	2030	S2581	2009	S24614	2030	SA13B	2007	SA21B	2007
S-1227	2010	S1685	2041	S2582	2009	S24616	2030	SA13C	2007	SA21C	2007
S1227	2010	S1689	2030	S2590	2009	S25261	2016	SA13D	2007	SA21D	2007
S1230	1144	S1691	2041	S2593	2009	S25805	2010	SA13E	2007	SA21E	2007
S1240	1144	S1692	2041	S-2617	2010	S25941	2010	SA13F	2007	SA21F	2007
S1241	2009	S1697	2009	S2617	2010	S26822	2009	SA13G	2007	SA21G	2007
S1242	2009	S1761	2009	S2617(UHF)	2010	S27233	2030	SA13L	2007	SA21L	2007
S1243	2009	S1761A	2009	S2635	2009	S27604	2016	SA13M	2007	SA21M	2007
S1243N	1104	S1761B	2009	S2636	2009	S27893	2058	SA13R	2007	SA21R	2007
S-1245	2009	S1761C	2009	S2645	2023	S29445	2009	SA13T	2007	SA21T	2007
S1245	2009	S1762	2030	S2645A	2023	S29956	2016	SA13X	2007	SA21X	2007
S1272	2009	S1764	2009	S2648	2030	S31551	2023	SA13Y	2007	SA21Y	2007
S-1276	2010	S1765	2009	S2716	2058	S31866	2009	SA14A	2007	SA26A	2007
S1276	2010	S1766	2009	S2718	2058	S32417	2010	SA14B	2007	SA26B	2007
S-1286	2010	S1768	2009	S2719	2010	S32550	2009	SA14C	2007	SA26C	2007
S1286	2016	S1770	2009	S2741	2041	S32669	2010	SA14D	2007	SA26D	2007
S-1296	2010	S1772	2009	S2794	2030	S33529	2027	SA14E	2007	SA26E	2007
S1296	2010	S1773	2030	S2935	2009	S33530	2020	SA14F	2007	SA26F	2007
S1307	2009	S1777	2030	S2944	2009	S33755	2009	SA14G	2007	SA26G	2007
S1308	2010	S1784	2009	S2984	2009	S33990	2010	SA14L	2007	SA26L	2007
S1309	2009	S1785	2009	S2985	2009	S34540	2009	SA14M	2007	SA26M	2007
S-1313	2010	S1788	2009	S2988	2023	S35232	2016	SA14R	2007	SA26R	2007
S1313	2010	S1801-02	1104	S2988A	2023	S35233	2010	SA14T	2007	SA26T	2007
S1316	2010	S1835	2009	S2989	2009	S36951	2009	SA14X	2007	SA26X	2007
S1317	2010	S1864	2030	S2992	2030	S36999	2009	SA14Y	2007	SA26Y	2007
S1318	2010	S1865	2041	S2996	2009	S37162	2020	SA15A	2007	SA28A	2007
S1331	2009	S1871	2009	S2997	2009	S37165	2027	SA15B	2007	SA28B	2007
S1331N	2009	S1874	2030	S2998	2009	S37166	2020	SA15C	2007	SA28C	2007
S-1331W	2009	S1878	2009	S2999	2009	S37182	2009	SA15D	2007	SA28D	2007
S1331W	2009	S1889	2023	S3004	2023	S37214	2009	SA15E	2007	SA28E	2007
S1332	2007	S1891	2009	S3004(HEP)	2023	S37423	2009	SA15F	2007	SA28F	2007
S1341P	2061	S1891A	2009	S3004-1715	561	S38673	2009	SA15G	2007	SA28G	2007
S1342P	2061	S1891B	2009	S3004-1716	1102	S38787	2009	SA15L	2007	SA28L	2007
S1343P	2061	S1897	2010	S3004-1718	561	S38854	2009	SA15M	2007	SA28M	2007
S1348	2007	S1905	2041	S3019	2010	S39094	2023	SA15N	2007	SA28N	2007
S1349	2007	S1905A	2041	S3020	2010	S39261	2027	SA15R	2007	SA28R	2007
S1350	2023	S1907	2041	S3030G	1123	S39262	2020	SA15T	2007	SA28Y	2007
S1350A	2023	S1955	2009	S3060(HEP)	2020	S40204	2016	SA15V	2007	SA29A	2007
S1351P	2061	S1990	2023	S3061(HEP)	2020	S40545	2010	SA15X	2007	SA29B	2007
S1352P	2061	S1993	2009	S3072C	1102	S-88576	1124	SA15Y	2007	SA29C	2007
S1353P	2061	S2000K52	1067	S3577G	1123	S88576	1124	SA16A	2007	SA29D	2007
S-1360	2010	S2002	2016	S3603G	1123	S-95101	2007	SA16B	2007	SA29E	2007
S1360	2010	S2003-1	2041	S3639	2023	S95101	2007	SA16C	2007	SA29F	2007
S-1361	2010	S2034	2009	S3640A	2023	S-95102	2007	SA16D	2007	SA29F	2007
S1361	2010	S2038	2016	S3655	2023	S95102	2007	SA16E	2007	SA29G	2007
S-1362	2010	S2041	2027	S3655A	2023	S-95103	2007	SA16F	2007	SA29H	2007
S1362	2010	S2042	2020	S3771	2041	S95103	2007	SA16G	2007	SA29M	2007
S-1363	2009	S2043	2009	S3776B	1123	S95104	2007	SA16I	2007	SA29T	2007
S1363	2009	S2044	2009	S3838GA	1123	S95106	2007	SA16M	2007	SA29Y	2007
S-1364	2009	S2060A	1067	S3885G	1123	S-95125	2010	SA16R	2007	SA29X	2007
S1364	2009	S2060B	1067	S4001	1104	S95125	2010	SA16T	2007	SA29Y	2007
S1367	2023	S2060C	1020	S4002	2016	S-95125A	2010	SA16X	2007	SA30A	2007
S-1367A	2023	S2061A	1067	S4248	2007	S95125A	2010	SA16Y	2007	SA30B	2007
S1368	2030	S2061B	1067	S4249	2023	S-95126	2010	SA17A	2007	SA30C	2007
S1369	2009	S2061C	1020	S5014(HEP)	2030	S95126	2010	SA17B	2007	SA30D	2007
S1373	2009	S2061D	1020	S5020	2016	S-95126A	2010	SA17C	2007	SA30E	2007
S1374	2009	S2062A	1067	S5021	2016	S95126A	2010	SA17D	2007	SA30F	2007
S1403	2009	S2062B	1067	S5089-A	1104	S-95201	2007	SA			

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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SA41C	2007	SA72X	2007	SA82A	2007	SA94E	2007	SA106F	2007	SA114M	2007	SA124T	2007
SA41D	2007	SA72Y	2007	SA82B	2007	SA94F	2007	SA106G	2007	SA114R	2007	SA124X	2007
SA41E	2007	SA73A	2007	SA82C	2007	SA94G	2007	SA106H	2007	SA114T	2007	SA124Y	2007
SA41F	2007	SA73B	2007	SA82D	2007	SA94L	2007	SA106M	2007	SA114X	2007	SA125A	2007
SA41G	2007	SA73C	2007	SA82E	2007	SA94M	2007	SA106N	2007	SA114Y	2007	SA125B	2007
SA41H	2007	SA73D	2007	SA82F	2007	SA94R	2007	SA106T	2007	SA115A	2007	SA125C	2007
SA41M	2007	SA73E	2007	SA82G	2007	SA94T	2007	SA106X	2007	SA115B	2007	SA125D	2007
SA41R	2007	SA73F	2007	SA82L	2007	SA94X	2007	SA106Y	2007	SA115C	2007	SA125E	2007
SA41T	2007	SA73G	2007	SA82M	2007	SA94Y	2007	SA107B	2007	SA115D	2007	SA125F	2007
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SA43D	2007	SA73Y	2007	SA83D	2007	SA95F	2023	SA107H	2007	SA115N	2007	SA125U	2007
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SA43F	2007	SA74B	2007	SA83F	2007	SA95L	2023	SA107N	2007	SA115X	2007	SA125W	2007
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SA43T	2007	SA74G	2007	SA83T	2007	SA95Y	2023	SA108B	2007	SA116D	2007	SA126C	2007
SA43X	2007	SA74L	2007	SA83X	2007	SA106A	2007	SA108C	2007	SA116E	2007	SA126D	2007
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SA44A	2007	SA74R	2007	SA84A	2007	SA106C	2007	SA108E	2007	SA116G	2007	SA126F	2007
SA44B	2007	SA74T	2007	SA84B	2007	SA106D	2007	SA108F	2007	SA116H	2007	SA126G	2007
SA44C	2007	SA74X	2007	SA84C	2007	SA106E	2007	SA108G	2007	SA116I	2007	SA126H	2007
SA44D	2007	SA74Y	2007	SA84D	2007	SA106F	2007	SA108H	2007	SA116J	2007	SA126I	2007
SA44E	2007	SA75A	2007	SA84E	2007	SA106G	2007	SA108M	2007	SA116K	2007	SA126J	2007
SA44F	2007	SA75B	2007	SA84F	2007	SA106H	2007	SA108N	2007	SA116L	2007	SA126K	2007
SA44G	2007	SA75C	2007	SA84G	2007	SA106I	2007	SA108P	2007	SA116M	2007	SA126L	2007
SA44L	2007	SA75D	2007	SA84L	2007	SA106J	2007	SA108Q	2007	SA116N	2007	SA126M	2007
SA44M	2007	SA75E	2007	SA84M	2007	SA106K	2007	SA108R	2007	SA116O	2007	SA126N	2007
SA44R	2007	SA75F	2007	SA84R	2007	SA106L	2007	SA108S	2007	SA116P	2007	SA126O	2007
SA44T	2007	SA75G	2007	SA84T	2007	SA106M	2007	SA108T	2007	SA116Q	2007	SA126P	2007
SA44X	2007	SA75L	2007	SA84X	2007	SA106N	2007	SA108U	2007	SA116R	2007	SA126Q	2007
SA44Y	2007	SA75M	2007	SA84Y	2007	SA106O	2007	SA108V	2007	SA116S	2007	SA126R	2007
SA45A	2007	SA75R	2007	SA85A	2007	SA106P	2007	SA108W	2007	SA116T	2007	SA126S	2007
SA45B	2007	SA75T	2007	SA85B	2007	SA106Q	2007	SA108X	2007	SA116U	2007	SA126T	2007
SA45C	2007	SA75X	2007	SA85C	2007	SA106R	2007	SA108Y	2007	SA116V	2007	SA126U	2007
SA45D	2007	SA75Y	2007	SA85D	2007	SA106S	2007	SA108Z	2007	SA116W	2007	SA126V	2007
SA45E	2007	SA76A	2007	SA85E	2007	SA106T	2007	SA109A	2007	SA116X	2007	SA126W	2007
SA45F	2007	SA76B	2007	SA85F	2007	SA106U	2007	SA109B	2007	SA116Y	2007	SA126X	2007
SA45G	2007	SA76C	2007	SA85G	2007	SA106V	2007	SA109C	2007	SA116Z	2007	SA126Y	2007
SA45L	2007	SA76D	2007	SA85L	2007	SA106W	2007	SA109D	2007	SA117A	2007	SA126Z	2007
SA45M	2007	SA76E	2007	SA85M	2007	SA106X	2007	SA109E	2007	SA117B	2007	SA127A	2007
SA45R	2007	SA76F	2007	SA85R	2007	SA106Y	2007	SA109F	2007	SA117C	2007	SA127B	2007
SA45T	2007	SA76G	2007	SA85T	2007	SA106Z	2007	SA109G	2007	SA117D	2007	SA127C	2007
SA45X	2007	SA76L	2007	SA85X	2007	SA107A	2007	SA109H	2007	SA117E	2007	SA127D	2007
SA45Y	2007	SA76M	2007	SA85Y	2007	SA107B	2007	SA109I	2007	SA117F	2007	SA127E	2007
SA49A	2007	SA76R	2007	SA87A	2007	SA107C	2007	SA109J	2007	SA117G	2007	SA127F	2007
SA49B	2007	SA76T	2007	SA87B	2007	SA107D	2007	SA109K	2007	SA117H	2007	SA127G	2007
SA49C	2007	SA76X	2007	SA87C	2007	SA107E	2007	SA109L	2007	SA117I	2007	SA127H	2007
SA49D	2007	SA76Y	2007	SA87D	2007	SA107F	2007	SA109M	2007	SA117J	2007	SA127I	2007
SA49E	2007	SA77A	2007	SA87E	2007	SA107G	2007	SA109N	2007	SA117K	2007	SA127J	2007
SA49F	2007	SA77B	2007	SA87F	2007	SA107H	2007	SA109O	2007	SA117L	2007	SA127K	2007
SA49G	2007	SA77C	2007	SA87G	2007	SA107I	2007	SA109P	2007	SA117M	2007	SA127L	2007
SA49L	2007	SA77D	2007	SA87L	2007	SA107J	2007	SA109Q	2007	SA117N	2007	SA127M	2007
SA49M	2007	SA77E	2007	SA87M	2007	SA107K	2007	SA109R	2007	SA117O	2007	SA127N	2007
SA49R	2007	SA77F	2007	SA87R	2007	SA107L	2007	SA109S	2007	SA117P	2007	SA127O	2007
SA49T	2007	SA77G	2007	SA87T	2007	SA107M	2007	SA109T	2007	SA117Q	2007	SA127P	2007
SA49X	2007	SA77L	2007	SA87X	2007	SA107N	2007	SA109U	2007	SA117R	2007	SA127Q	2007
SA49Y	2007	SA77M	2007	SA87Y	2007	SA107O	2007	SA109V	2007	SA117S	2007	SA127R	2007
SA50	2023	SA77R	2007	SA90A	2007	SA107P	2007	SA109W	2007	SA117T	2007	SA127S	2007
SA50A	2023	SA77T	2007	SA90B	2007	SA107Q	2007	SA109X	2007	SA117U	2007	SA127T	2007
SA51	2023	SA77X	2007	SA90C	2007	SA107R	2007	SA109Y	2007	SA117V	2007	SA127U	2007
SA51A	2023	SA77Y	2007	SA90D	2007	SA107S	2007	SA109Z	2007	SA117W	2007	SA127V	2007
SA52	2023	SA78A	2007	SA90E	2007	SA107T	2007	SA110A	2007	SA117X	2007	SA127W	2007
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SA54	2023	SA78L	2007	SA90L	2007	SA108A	2007	SA110H	2007	SA118E	2007	SA128D	2007
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SA56	2023	SA78X	2007	SA92C	2007	SA108E	2007	SA110L	2007	SA118I	2007	SA128H	2007
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SA70	2023	SA80A	2007	SA92E	2007	SA108G	2007	SA110N	2007	SA118K	2007	SA128J	2007
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SA71B	2007	SA80D	2007	SA92H	2007	SA108J	2007	SA110Q	2007	SA118N	2007	SA128M	

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA135C	2007	SA145E	2007	SA153G	2007	SA162L	2007	SA170R	2007	SA181X	2007	SA203R	2007
SA135D	2007	SA145F	2007	SA153L	2007	SA162M	2007	SA170T	2007	SA181Y	2007	SA203T	2007
SA135E	2007	SA145G	2007	SA153M	2007	SA162R	2007	SA170X	2007	SA182A	2007	SA203X	2007
SA135F	2007	SA145L	2007	SA153R	2007	SA162T	2007	SA170Y	2007	SA182B	2007	SA203Y	2007
SA135G	2007	SA145M	2007	SA153T	2007	SA162X	2007	SA171A	2007	SA182C	2007	SA204	2007
SA135L	2007	SA145R	2007	SA153X	2007	SA162Y	2007	SA171B	2007	SA182D	2007	SA205BLU	2007
SA135M	2007	SA145T	2007	SA153Y	2007	SA163A	2007	SA171C	2007	SA182E	2007	SA205BRN	2007
SA135R	2007	SA145X	2007	SA154A	2007	SA163B	2007	SA171D	2007	SA182F	2007	SA205GRN	2007
SA135T	2007	SA145Y	2007	SA154B	2007	SA163C	2007	SA171E	2007	SA182G	2007	SA205ORN	2007
SA135X	2007	SA146A	2007	SA154C	2007	SA163D	2007	SA171F	2007	SA182L	2007	SA205RED	2007
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SA139M	2007	SA148T	2007	SA164Y	2007	SA166A	2007	SA174C	2007	SA189E	2007	SA208G	2007
SA139R	2007	SA148X	2007	SA165A	2007	SA166B	2007	SA174D	2007	SA189F	2007	SA208L	2007
SA139T	2007	SA148Y	2007	SA165B	2007	SA166C	2007	SA174E	2007	SA189G	2007	SA208M	2007
SA139X	2007	SA149A	2007	SA165C	2007	SA166D	2007	SA174F	2007	SA189L	2007	SA208R	2007
SA139Y	2007	SA149B	2007	SA165D	2007	SA166E	2007	SA174G	2007	SA189M	2007	SA208T	2007
SA141A	2007	SA149C	2007	SA165E	2007	SA166F	2007	SA174H	2007	SA189R	2007	SA208X	2007
SA141B	2007	SA149D	2007	SA165F	2007	SA166G	2007	SA174M	2007	SA189T	2007	SA208Y	2007
SA141C	2007	SA149E	2007	SA165G	2007	SA166L	2007	SA174R	2007	SA189X	2007	SA209A	2007
SA141D	2007	SA149F	2007	SA165H	2007	SA166M	2007	SA174T	2007	SA189Y	2007	SA209B	2007
SA141E	2007	SA149G	2007	SA165I	2007	SA166N	2007	SA174X	2007	SA197	2007	SA209C	2007
SA141F	2007	SA149L	2007	SA165J	2007	SA166P	2007	SA174Y	2007	SA197-1	2007	SA209D	2007
SA141G	2007	SA149M	2007	SA165K	2007	SA166Q	2007	SA175A	2007	SA197-2	2007	SA209E	2007
SA141H	2007	SA149R	2007	SA165L	2007	SA166R	2007	SA175B	2007	SA197-3	2007	SA209F	2007
SA141M	2007	SA149T	2007	SA165M	2007	SA166S	2007	SA175C	2007	SA198A	2007	SA209G	2007
SA141R	2007	SA149X	2007	SA165N	2007	SA166T	2007	SA175D	2007	SA198B	2007	SA209L	2007
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SA141X	2007	SA150A	2007	SA165P	2007	SA166V	2007	SA175F	2007	SA198D	2007	SA209R	2007
SA141Y	2007	SA150B	2007	SA165Q	2007	SA166W	2007	SA175G	2007	SA198E	2007	SA209S	2007
SA142A	2007	SA150C	2007	SA165R	2007	SA166X	2007	SA175H	2007	SA198F	2007	SA209T	2007
SA142B	2007	SA150D	2007	SA165S	2007	SA166Y	2007	SA175I	2007	SA198G	2007	SA209X	2007
SA142C	2007	SA150E	2007	SA165T	2007	SA166Z	2007	SA175J	2007	SA198H	2007	SA209Y	2007
SA142D	2007	SA150F	2007	SA165U	2007	SA166A	2007	SA175K	2007	SA198I	2007	SA210A	2007
SA142E	2007	SA150G	2007	SA165V	2007	SA166B	2007	SA175L	2007	SA198J	2007	SA210B	2007
SA142F	2007	SA150H	2007	SA165W	2007	SA166C	2007	SA175M	2007	SA198K	2007	SA210C	2007
SA142G	2007	SA150I	2007	SA165X	2007	SA166D	2007	SA175N	2007	SA198L	2007	SA210D	2007
SA142H	2007	SA150J	2007	SA165Y	2007	SA166E	2007	SA175O	2007	SA198M	2007	SA210E	2007
SA142I	2007	SA150K	2007	SA165Z	2007	SA166F	2007	SA175P	2007	SA198N	2007	SA210F	2007
SA142J	2007	SA150L	2007	SA165A	2007	SA166G	2007	SA175Q	2007	SA198O	2007	SA210G	2007
SA142K	2007	SA150M	2007	SA165B	2007	SA166H	2007	SA175R	2007	SA198P	2007	SA210H	2007
SA142L	2007	SA150N	2007	SA165C	2007	SA166I	2007	SA175S	2007	SA198Q	2007	SA210I	2007
SA142M	2007	SA150O	2007	SA165D	2007	SA166J	2007	SA175T	2007	SA198R	2007	SA210J	2007
SA142N	2007	SA150P	2007	SA165E	2007	SA166K	2007	SA175U	2007	SA198S	2007	SA210K	2007
SA142O	2007	SA150Q	2007	SA165F	2007	SA166L	2007	SA175V	2007	SA198T	2007	SA210L	2007
SA142P	2007	SA150R	2007	SA165G	2007	SA166M	2007	SA175W	2007	SA198U	2007	SA210M	2007
SA142Q	2007	SA150S	2007	SA165H	2007	SA166N	2007	SA175X	2007	SA198V	2007	SA210N	2007
SA142R	2007	SA150T	2007	SA165I	2007	SA166O	2007	SA175Y	2007	SA198W	2007	SA210O	2007
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SA142T	2007	SA150V	2007	SA165K	2007	SA166Q	2007	SA176A	2007	SA198Y	2007	SA210Q	2007
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SA142V	2007	SA150X	2007	SA165M	2007	SA166S	2007	SA176C	2007	SA199A	2007	SA210S	2007
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SA213C	2007	SA221E	2007	SA233G	2007	SA246L	2007	SA254R	2007	SA262X	2007	SA271A	2007
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SA215T	2007	SA223Y	2007	SA236B	2007	SA249C	2007	SA256E	2007	SA265G	2007	SA273M	2007
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SA218G	2007	SA227M	2007	SA238T	2007	SA251X	2007	SA260A	2007	SA267P	2007	SA275E	2007
SA218L	2007	SA227R	2007	SA238X	2007	SA251Y	2007	SA260B	2007	SA267Q	2007	SA275F	2007
SA218M	2007	SA227T	2007	SA238Y	2007	SA252A	2007	SA260C	2007	SA267R	2007	SA275G	2007
SA218R	2007	SA227X	2007	SA239A	2007	SA252B	2007	SA260D	2007	SA267S	2007	SA275H	2007
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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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SA290G	2007	SA288M	2007	SA296T	2007	SA321D	2007	SA331F	2007	SA342H	2007
SA290L	2007	SA288R	2007	SA296X	2007	SA321E	2007	SA331G	2007	SA342I	2007
SA290M	2007	SA288T	2007	SA296Y	2007	SA321F	2007	SA331H	2007	SA342J	2007
SA290R	2007	SA288X	2007	SA297A	2007	SA321G	2007	SA331I	2007	SA342K	2007
SA290T	2007	SA288Y	2007	SA297B	2007	SA321H	2007	SA331J	2007	SA342L	2007
SA290X	2007	SA289A	2007	SA297C	2007	SA321I	2007	SA331K	2007	SA342M	2007
SA290Y	2007	SA289B	2007	SA297E	2007	SA321J	2007	SA331L	2007	SA342N	2007
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SA281E	2007	SA289G	2007	SA297J	2007	SA321O	2007	SA331Q	2007	SA342S	2007
SA281F	2007	SA289H	2007	SA297K	2007	SA321P	2007	SA331R	2007	SA342T	2007
SA281G	2007	SA289M	2007	SA297L	2007	SA321Q	2007	SA331S	2007	SA342U	2007
SA281H	2007	SA289R	2007	SA297M	2007	SA321R	2007	SA331T	2007	SA342V	2007
SA281M	2007	SA289T	2007	SA298A	2007	SA321S	2007	SA331U	2007	SA342W	2007
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SA282C	2007	SA290E	2007	SA298H	2007	SA321Z	2007				
SA282D	2007	SA290F	2007	SA298I	2007						
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SA282F	2007	SA290L	2007	SA298K	2007						
SA282G	2007	SA290M	2007	SA298L	2007						
SA282L	2007	SA290R	2007	SA298M	2007						
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SA282X	2007	SA291A	2007	SA298R	2007						
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SA286T	2007	SA293V	2007								
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SA286Y	2007	SA294A	2007								
SA286Z	2007	SA294B	2007								
SA287A	2007	SA294C	2007								
SA287B	2007	SA294D	2007								
SA287C	2007	SA294E	2007								
SA287D	2007	SA294F	2007								
SA287E	2007	SA294G	2007								
SA287F	2007	SA294H	2007								
SA287G	2007	SA294I	2007								
SA287H	2007	SA294J	2007								
SA287I	2007	SA294K	2007								
SA287J	2007	SA294L	2007								
SA287K	2007	SA294M	2007								
SA287L	2007	SA294N	2007								
SA287M	2007	SA294O	2007								
SA287N	2007	SA294P	2007								
SA287O	2007	SA294Q	2007								
SA287P	2007	SA294R	2007								
SA287Q	2007	SA294S	2007								
SA287R	2007	SA294T	2007								
SA287S	2007	SA294U	2007								
SA287T	2007	SA294V	2007								
SA287U	2007	SA294W	2007								
SA287V	2007	SA294X	2007								
SA287W	2007	SA294Y	2007								
SA287X	2007	SA294Z	2007								
SA287Y	2007	SA295A	2007								
SA287Z	2007	SA295B	2007								
SA288A	2007	SA295C	2007								
SA288B	2007	SA295D	2007								
SA288C	2007	SA295E	2007								
SA288D	2007	SA295F	2007								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA365L	2007	SA379R	2007	SA393X	2007	SA407A	2007	SA433B	2007	SA447D	2007	SA467F	2023
SA365M	2007	SA379T	2007	SA393Y	2007	SA407B	2007	SA433C	2007	SA447E	2007	SA467L	2023
SA365R	2007	SA379X	2007	SA394A	2007	SA407C	2007	SA433D	2007	SA447F	2007	SA467M	2023
SA365T	2007	SA379Y	2007	SA394B	2007	SA407D	2007	SA433E	2007	SA447G	2007	SA467R	2023
SA365X	2007	SA380A	2007	SA394C	2007	SA407E	2007	SA433F	2007	SA447H	2007	SA468A	2007
SA365Y	2007	SA380B	2007	SA394D	2007	SA407F	2007	SA433G	2007	SA447M	2007	SA468B	2007
SA366A	2007	SA380C	2007	SA394E	2007	SA407G	2007	SA433L	2007	SA447R	2007	SA468C	2007
SA366B	2007	SA380D	2007	SA394F	2007	SA407L	2007	SA433M	2007	SA447T	2007	SA468D	2007
SA366C	2007	SA380E	2007	SA394G	2007	SA407M	2007	SA433R	2007	SA447X	2007	SA468E	2007
SA366D	2007	SA380F	2007	SA394L	2007	SA407R	2007	SA433T	2007	SA447Y	2007	SA468F	2007
SA366E	2007	SA380G	2007	SA394M	2007	SA407T	2007	SA433X	2007	SA453A	2007	SA468G	2007
SA366F	2007	SA380L	2007	SA394R	2007	SA407X	2007	SA433Y	2007	SA453B	2007	SA468L	2007
SA366G	2007	SA380M	2007	SA394T	2007	SA407Y	2007	SA434A	2007	SA453C	2007	SA468M	2007
SA366L	2007	SA380R	2007	SA394X	2007	SA410	2023	SA434B	2007	SA453D	2007	SA468R	2007
SA366M	2007	SA380T	2007	SA394Y	2007	SA410A	2023	SA434C	2007	SA453E	2007	SA468T	2007
SA366R	2007	SA380X	2007	SA395A	2007	SA411	2023	SA434D	2007	SA453F	2007	SA468X	2007
SA366T	2007	SA380Y	2007	SA395B	2007	SA411A	2023	SA434E	2007	SA453G	2007	SA468Y	2007
SA366X	2007	SA381A	2007	SA395C	2007	SA412	2023	SA434F	2007	SA453L	2007	SA469A	2007
SA366Y	2007	SA381B	2007	SA395D	2007	SA412A	2023	SA434G	2007	SA453M	2007	SA469B	2007
SA367A	2007	SA381C	2007	SA395E	2007	SA413	2023	SA434L	2007	SA453R	2007	SA469C	2007
SA367B	2007	SA381D	2007	SA395F	2007	SA413A	2023	SA434M	2007	SA453T	2007	SA469D	2007
SA367C	2007	SA381E	2007	SA395G	2007	SA414	2023	SA434R	2007	SA453X	2007	SA469E	2007
SA367D	2007	SA381F	2007	SA395H	2007	SA414A	2023	SA434T	2007	SA453Y	2007	SA469F	2007
SA367E	2007	SA381G	2007	SA395M	2007	SA415	2023	SA434X	2007	SA454A	2007	SA469G	2007
SA367F	2007	SA381H	2007	SA395R	2007	SA415A	2023	SA434Y	2007	SA454B	2007	SA469L	2007
SA367G	2007	SA381M	2007	SA395T	2007	SA416	2023	SA435A	2007	SA454C	2007	SA469M	2007
SA367L	2007	SA381R	2007	SA395X	2007	SA416A	2023	SA435B	2007	SA454D	2007	SA469R	2007
SA367M	2007	SA381T	2007	SA395Y	2007	SA420A	2007	SA435C	2007	SA454E	2007	SA469T	2007
SA367R	2007	SA381X	2007	SA398A	2007	SA420B	2007	SA435D	2007	SA454F	2007	SA469X	2007
SA367T	2007	SA381Y	2007	SA398B	2007	SA420C	2007	SA435E	2007	SA454G	2007	SA469Y	2007
SA367X	2007	SA382A	2007	SA398C	2007	SA420D	2007	SA435F	2007	SA454H	2007	SA470A	2007
SA367Y	2007	SA382B	2007	SA398D	2007	SA420E	2007	SA435G	2007	SA454M	2007	SA470B	2007
SA368A	2007	SA382C	2007	SA398E	2007	SA420F	2007	SA435L	2007	SA454R	2007	SA470C	2007
SA368B	2007	SA382D	2007	SA398F	2007	SA420G	2007	SA435M	2007	SA454T	2007	SA470D	2007
SA368C	2007	SA382E	2007	SA398G	2007	SA420L	2007	SA435R	2007	SA454X	2007	SA470E	2007
SA368D	2007	SA382F	2007	SA398L	2007	SA420M	2007	SA435T	2007	SA454Y	2007	SA470F	2007
SA368E	2007	SA382G	2007	SA398M	2007	SA420R	2007	SA435X	2007	SA455A	2007	SA470G	2007
SA368F	2007	SA382H	2007	SA398R	2007	SA420T	2007	SA435Y	2007	SA455B	2007	SA470L	2007
SA368G	2007	SA382M	2007	SA398T	2007	SA420X	2007	SA436A	2007	SA455C	2007	SA470M	2007
SA368L	2007	SA382R	2007	SA398X	2007	SA420Y	2007	SA436B	2007	SA455D	2007	SA470R	2007
SA368M	2007	SA382T	2007	SA398Y	2007	SA426A	2007	SA436C	2007	SA455E	2007	SA470T	2007
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SA368X	2007	SA384A	2007	SA399C	2007	SA426D	2007	SA436F	2007	SA455L	2007	SA471A	2007
SA368Y	2007	SA384B	2007	SA399D	2007	SA426E	2007	SA436G	2007	SA455M	2007	SA471B	2007
SA369A	2007	SA384C	2007	SA399E	2007	SA426F	2007	SA436L	2007	SA455R	2007	SA471C	2007
SA369B	2007	SA384D	2007	SA399F	2007	SA426G	2007	SA436M	2007	SA455T	2007	SA471D	2007
SA369C	2007	SA384E	2007	SA399G	2007	SA426L	2007	SA436R	2007	SA455X	2007	SA471E	2007
SA369D	2007	SA384F	2007	SA399L	2007	SA426M	2007	SA436T	2007	SA455Y	2007	SA471F	2007
SA369E	2007	SA384G	2007	SA399M	2007	SA426R	2007	SA436X	2007	SA456A	2007	SA471G	2007
SA369F	2007	SA384H	2007	SA399R	2007	SA426T	2007	SA436Y	2007	SA456B	2007	SA471H	2007
SA369G	2007	SA384M	2007	SA399T	2007	SA426X	2007	SA437A	2007	SA456C	2007	SA471I	2007
SA369L	2007	SA384R	2007	SA399X	2007	SA426Y	2007	SA437B	2007	SA456D	2007	SA471M	2007
SA369M	2007	SA384T	2007	SA399Y	2007	SA427A	2007	SA437C	2007	SA456E	2007	SA471T	2007
SA369R	2007	SA384X	2007	SA400A	2007	SA427B	2007	SA437D	2007	SA456F	2007	SA471X	2007
SA369T	2007	SA384Y	2007	SA400B	2007	SA427C	2007	SA437E	2007	SA456G	2007	SA471Y	2007
SA369X	2007	SA385A	2007	SA400C	2007	SA427D	2007	SA437F	2007	SA456L	2007	SA472A	2007
SA369Y	2007	SA385B	2007	SA400D	2007	SA427E	2007	SA437G	2007	SA456M	2007	SA472B	2007
SA376A	2007	SA385C	2007	SA400E	2007	SA427F	2007	SA437L	2007	SA456R	2007	SA472C	2007
SA376B	2007	SA385D	2007	SA400F	2007	SA427G	2007	SA437M	2007	SA456T	2007	SA472D	2007
SA376C	2007	SA385E	2007	SA400G	2007	SA427L	2007	SA437R	2007	SA456X	2007	SA472E	2007
SA376D	2007	SA385F	2007	SA400L	2007	SA427M	2007	SA437T	2007	SA456Y	2007	SA472F	2007
SA376E	2007	SA385G	2007	SA400M	2007	SA427N	2007	SA437X	2007	SA457A	2007	SA472G	2007
SA376F	2007	SA385L	2007	SA400R	2007	SA427T	2007	SA437Y	2007	SA457B	2007	SA472L	2007
SA376G	2007	SA385M	2007	SA400T	2007	SA427X	2007	SA438A	2007	SA457C	2007	SA472M	2007
SA376L	2007	SA385R	2007	SA400X	2007	SA427Y	2007	SA438B	2007	SA457D	2007	SA472R	2007
SA376M	2007	SA385T	2007	SA400Y	2007	SA428A	2007	SA438C	2007	SA457E	2007	SA472T	2007
SA376R	2007	SA385X	2007	SA403A	2007	SA428B	2007	SA438D	2007	SA457F	2007	SA472X	2007
SA376T	2007	SA385Y	2007	SA403B	2007	SA428C	2007	SA438E	2007	SA457G	2007	SA472Y	2007
SA376X	2007	SA391A	2007	SA403C	2007	SA428D	2007	SA438F	2007	SA457L	2007	SA474A	2007
SA376Y	2007	SA391B	2007	SA403D	2007	SA428E	2007	SA438G	2007	SA457M	2007	SA474B	2007
SA377A	2007	SA391C	2007	SA403E	2007	SA428F	2007	SA438L	2007	SA457R	2007	SA474C	2007
SA377B	2007	SA391D	2007	SA403F	2007	SA428G	2007	SA438M	2007	SA457T	2007	SA474D	2007
SA377C	2007	SA391E	2007	SA403G	2007	SA428L	2007	SA438R	2007	SA457X	2007	SA474E	2007
SA377D	2007	SA391F	2007	SA403L	2007	SA428M	2007	SA438T	2007	SA457Y	2007	SA474F	2007
SA377E	2007	SA391G	2007	SA403M	2007	SA428R	2007	SA438X	2007	SA465A	2023	SA474G	2007
SA377F	2007	SA391H	2007	SA403R	2007	SA428T	2007	SA438Y	2007	SA465B	2023	SA474L	2007
SA377G	2007	SA391M	2007	SA403T	2007	SA428X	2007	SA440A	2007	SA465C	2023	SA474M	2007
SA377L	2007	SA391R	2007	SA403X	2007	SA428Y	2007	SA440B	2007	SA465D	2023	SA474R	2007
SA377M	2007	SA391T	2007	SA403Y	2007	SA429A	2023	SA440C	2007	SA465E	2023	SA474T	2007
SA377R	2007	SA391X	2007	SA404A	2007	SA429B	2023	SA440D	2007	SA465F	2023	SA474X	2007
SA377T	2007	SA391Y	2007	SA404B	2007	SA429C	2023	SA440E	2007	SA465G	2023	SA474Y	2007
SA377X	2007	SA392A	2007	SA404C	2007	SA429D	2023	SA440F	2007	SA465L	2023	SA475A	2007
SA377Y	2007	SA392B	2007	SA404D	2007	SA429E	2023	SA440G	2007	SA465M	2023	SA475B	2007
SA378A	2007	SA392C	2007	SA404E	2007	SA429F	2023	SA440L	2007	SA465R	2023	SA475C	2007
SA378B	2007	SA392D	2007	SA404F	2007	SA429G	2023	SA440M	2007	SA465T	2023	SA475D	2007
SA378C	2007	SA392E	2007	SA404G	2007	SA429L	2023	SA440R	2007	SA465X	2023	SA475E	2007
SA378D	2007	SA392F	2007	SA404L	2007	SA429M	2023	SA440T	2007	SA465Y	2023	SA475F	2007
SA378E	2007	SA392G	2007	SA404M	2007	SA429R	2023	SA440X	2007	SA466A	2007	SA475G	2007
SA378F	2007	SA392L	2007	SA404R	2007	SA429T	2023	SA440Y	2007				

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
SA476X	2007	SA499A	2023	SA522C	2023	SA561D	2023	SA608E	2023	SA658M	2043	SA685X	2023
SA476Y	2007	SA499B	2023	SA522D	2023	SA561E	2023	SA608F	2023	SA658R	2043	SA685Y	2023
SA477A	2007	SA499C	2023	SA522E	2023	SA561F	2023	SA608G	2023	SA658T	2043	SA697A	2023
SA477B	2007	SA499D	2023	SA522F	2023	SA561G	2023	SA608L	2023	SA658X	2043	SA697B	2023
SA477C	2007	SA499E	2023	SA522G	2023	SA561H	2023	SA608M	2023	SA658Y	2043	SA697C	2023
SA477D	2007	SA499F	2023	SA522I	2023	SA561M	2023	SA608R	2023	SA659A	2023	SA697D	2023
SA477E	2007	SA499G	2023	SA522M	2023	SA561R	2023	SA608T	2023	SA659B	2023	SA697E	2023
SA477F	2007	SA499L	2023	SA522R	2023	SA561T	2023	SA608X	2023	SA659C	2023	SA697F	2023
SA477G	2007	SA499M	2023	SA522T	2023	SA561X	2023	SA608Y	2023	SA659D	2023	SA697G	2023
SA477L	2007	SA499R	2023	SA522X	2023	SA561Y	2023	SA609A	2023	SA659E	2023	SA697L	2023
SA477M	2007	SA499T	2023	SA522Y	2023	SA562A	2023	SA609B	2023	SA659F	2023	SA697M	2023
SA477R	2007	SA499X	2023	SA525A	2023	SA562B	2023	SA609C	2023	SA659G	2023	SA697R	2023
SA477T	2007	SA499Y	2023	SA525B	2023	SA562C	2023	SA609D	2023	SA659L	2023	SA697T	2023
SA477X	2007	SA500A	2023	SA525C	2023	SA562D	2023	SA609E	2023	SA659M	2023	SA697X	2023
SA477Y	2007	SA500B	2023	SA525D	2023	SA562E	2023	SA609F	2023	SA659R	2023	SA697Y	2023
SA478A	2007	SA500C	2023	SA525E	2023	SA562F	2023	SA609G	2023	SA659T	2023	SA707A	2023
SA478B	2007	SA500D	2023	SA525F	2023	SA562G	2023	SA609L	2023	SA659X	2023	SA707B	2023
SA478C	2007	SA500E	2023	SA525G	2023	SA562L	2023	SA609M	2023	SA659Y	2023	SA707C	2023
SA478D	2007	SA500F	2023	SA525L	2023	SA562M	2023	SA609R	2023	SA661A	2023	SA707D	2023
SA478E	2007	SA500G	2023	SA525M	2023	SA562R	2023	SA609T	2023	SA661B	2023	SA707E	2023
SA478F	2007	SA500L	2023	SA525R	2023	SA562T	2023	SA609X	2023	SA661C	2023	SA707F	2023
SA478G	2007	SA500M	2023	SA525T	2023	SA562X	2023	SA609Y	2023	SA661D	2023	SA707G	2023
SA478L	2007	SA500R	2023	SA525X	2023	SA562Y	2023	SA628A	2023	SA661E	2023	SA707L	2023
SA478M	2007	SA500T	2023	SA525Y	2023	SA564A	2023	SA628B	2023	SA661F	2023	SA707M	2023
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SA478T	2007	SA500Y	2023	SA530A	2023	SA564C	2023	SA628D	2023	SA661I	2023	SA707T	2023
SA478X	2007	SA507A	2007	SA530B	2023	SA564D	2023	SA628E	2023	SA661M	2023	SA707X	2023
SA478Y	2007	SA507B	2007	SA530C	2023	SA564E	2023	SA628F	2023	SA661R	2023	SA707Y	2023
SA479A	2007	SA507C	2007	SA530D	2023	SA564F	2023	SA628G	2023	SA661T	2023	SA720A	2023
SA479B	2007	SA507D	2007	SA530E	2023	SA564G	2023	SA628L	2023	SA661X	2023	SA720B	2023
SA479C	2007	SA507E	2007	SA530F	2023	SA564L	2023	SA628M	2023	SA661Y	2023	SA720C	2023
SA479D	2007	SA507F	2007	SA530G	2023	SA564M	2023	SA628R	2023	SA663A	2043	SA720D	2023
SA479E	2007	SA507G	2007	SA530L	2023	SA564R	2023	SA628T	2023	SA663B	2043	SA720E	2023
SA479F	2007	SA507L	2007	SA530M	2023	SA564T	2023	SA628X	2023	SA663C	2043	SA720F	2023
SA479G	2007	SA507M	2007	SA530R	2023	SA564X	2023	SA628Y	2023	SA663D	2043	SA720G	2023
SA479L	2007	SA507R	2007	SA530T	2023	SA564Y	2023	SA629A	2023	SA663E	2043	SA720L	2023
SA479M	2007	SA507T	2007	SA530X	2023	SA565	2007	SA629B	2023	SA663F	2043	SA720M	2023
SA479R	2007	SA507X	2007	SA530Y	2023	SA565A	2023	SA629C	2023	SA663G	2043	SA720R	2023
SA479T	2007	SA507Y	2007	SA539A	2023	SA565B	2023	SA629D	2023	SA663L	2043	SA720T	2023
SA479X	2007	SA509A	2023	SA539B	2023	SA565C	2023	SA629E	2023	SA663M	2043	SA720X	2023
SA479Y	2007	SA509B	2023	SA539C	2023	SA565D	2023	SA629F	2023	SA663R	2043	SA720Y	2023
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SA480B	2023	SA509D	2023	SA539E	2023	SA565F	2023	SA629H	2023	SA663X	2043	SA721B	2023
SA480C	2023	SA509E	2023	SA539F	2023	SA565G	2023	SA629M	2023	SA663Y	2043	SA721C	2023
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SA480G	2023	SA509M	2023	SA539R	2023	SA565T	2023	SA639B	2023	SA666D	2023	SA721G	2023
SA480L	2023	SA509R	2023	SA539T	2023	SA565X	2023	SA639C	2023	SA666E	2023	SA721L	2023
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SA480R	2023	SA509X	2023	SA539Y	2023	SA567A	2023	SA639E	2023	SA666G	2023	SA721R	2023
SA480T	2023	SA509Y	2023	SA542A	2023	SA567B	2023	SA639F	2023	SA666L	2023	SA721T	2023
SA480X	2023	SA511A	2023	SA542B	2023	SA567C	2023	SA639G	2023	SA666M	2023	SA721X	2023
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SA482A	2023	SA511C	2023	SA542D	2023	SA567E	2023	SA639M	2023	SA666T	2023	SA741A	2023
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SA482D	2023	SA511F	2023	SA542G	2023	SA567L	2023	SA641A	2023	SA672A	2023	SA741D	2023
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SA482F	2023	SA511L	2023	SA542M	2023	SA567R	2023	SA641C	2023	SA672C	2023	SA741F	2023
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SA482L	2023	SA511R	2023	SA542T	2023	SA567X	2023	SA641E	2023	SA672E	2023	SA741L	2023
SA482M	2023	SA511T	2023	SA542X	2023	SA567Y	2023	SA641F	2023	SA672F	2023	SA741M	2023
SA482N	2023	SA511X	2023	SA542Y	2023	SA569A	2023	SA641G	2023	SA672G	2023	SA741R	2023
SA482T	2023	SA511Y	2023	SA544A	2023	SA569B	2023	SA641L	2023	SA672L	2023	SA741T	2023
SA482X	2023	SA513A	2023	SA544B	2023	SA569C	2023	SA641M	2023	SA672M	2023	SA741X	2023
SA482Y	2023	SA513B	2023	SA544C	2023	SA569D	2023	SA641R	2023	SA672R	2023	SA741Y	2023
SA493A	2023	SA513C	2023	SA544D	2023	SA569E	2023	SA641T	2023	SA672T	2023	SA756A	2043
SA493B	2023	SA513D	2023	SA544E	2023	SA569F	2023	SA641X	2023	SA672X	2023	SA756B	2043
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SA493G	2023	SA513M	2023	SA544R	2023	SA569T	2023	SA643D	1114	SA673D	2023	SA756G	2043
SA493L	2023	SA513R	2023	SA544T	2023	SA569X	2023	SA643E	1114	SA673E	2023	SA756L	2043
SA493M	2023	SA513T	2023	SA544X	2023	SA569Y	2023	SA643F	1114	SA673F	2023	SA756M	2043
SA493R	2023	SA513X	2023	SA544Y	2023	SA570A	2023	SA643G	1114	SA673G	2023	SA756R	2043
SA493T	2023	SA513Y	2023	SA545A	2023	SA570B	2023	SA643L	1114	SA673L	2023	SA756T	2043
SA493X	2023	SA517A	2007	SA545B	2023	SA570C	2023	SA643M	1114	SA673R	2023	SA756X	2043
SA493Y	2023	SA517B	2007	SA545C	2023	SA570D	2023	SA643R	1114	SA673T	2023	SA756Y	2043
SA494A	2023	SA517C	2007	SA545D	2023	SA570E	2023	SA643T	1114	SA673X	2023	SA773A	2023
SA494B	2023	SA517D	2007	SA545E	2023	SA570F	2023	SA643X	1114	SA673Y	2023	SA773B	2023
SA494C	2023	SA517E	2007	SA545F	2023	SA570G	2023	SA643Y	1114	SA680A	2043	SA773C	2023
SA494D	2023	SA517F	2007	SA545G	2023	SA570L	2023	SA644	2007	SA680B	2043	SA773D	2023
SA494E	2023	SA517G	2007	SA545H	2023	SA570M	2023	SA649	2043	SA680C	2043	SA773E	2023
SA494F	2023	SA517H	2007	SA545M	2023	SA570R	2023	SA657A	2043	SA680D	2043	SA773F	2023
SA494G	2023	SA517M	2007	SA545R	2023	SA570T	2023	SA657B	2043	SA680E	2043	SA773G	2023
SA494L	2023	SA517R	2007	SA545T	2023	SA570X	2023	SA657C	2043	SA680F	2043	SA773L	2023
SA494M	2023	SA517T	2007	SA545X	2023	SA570Y	2023	SA657D	2043	SA680G	2043	SA773M	2023
SA494R	2023	SA517X	2007	SA545Y	2023	SA592A	2023	SA657E					

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SA821A	561	SB-309A	1104	SC159B	2023	SD-1N4148	1103	SD95A	1104	SDT3711	2027
SA823	561	SB309A	1171	SC174	2009	SD-151555	1102	SD96	1104	SDT3712	2027
SA823A	561	SB-309C	1104	SC174A	2009	SD-1U	1104	SD96A	1104	SDT3713	2027
SA825	561	SB309C	1171	SC174B	2009	SD-1UF	1104	SD96S	1104	SDT3715	2027
SA825A	561	SB315	1104	SC256	2061	SD1X	1104	SD98	1114	SDT3716	2027
SA827	561	SB332	1104	SC256A	2061	SD1Y	1104	SD98A	1114	SDT3717	2027
SA827A	561	SB333	1104	SC257	2061	SD-1Z	1104	SD98S	1114	SDT3720	2027
SA829	561	SB393	1104	SC257A	2061	SD1Z	1104	SD100	1102	SDT3721	2027
SA829A	561	SB821	561	SC257V1	2023	SD1ZHF	1104	SD-101	1104	SDT3722	2027
SA836A	2023	SB821A	561	SC257V1	2061	SD2	1104	SD101	1144	SDT3725	2027
SA836B	2023	SB823	561	SC258	2061	SD2	1114	SD102	1104	SDT3726	2027
SA836C	2023	SB823A	561	SC258A	2061	SD2A	1104	SD103	1104	SDT3727	2027
SA836D	2023	SB825	561	SC258B	2023	SD2B	1104	SD104	1104	SDT3729	2027
SA836E	2023	SB825A	561	SC258V1	2023	SD2C	1114	SD105	562	SDT3730	2027
SA836F	2023	SB827	561	SC258V1	2061	SD4	1104	SD-109	2009	SDT3733	2027
SA836G	2023	SB827A	561	SC259	2061	SD-5	1102	SD109	2009	SDT5102	2020
SA836L	2023	SB829	561	SC259A	2061	SD5	1104	SD-110	1102	SDT5112	2027
SA836M	2023	SB829A	561	SC259B	2023	SD5(DUAL)	1101	SD110	1102	SDT5907	2020
SA836R	2023	SB-1000	1114	SC305	1104	SD-5(PHILCO)	1102	SD-150	1123	SDT6001	2020
SA836T	2023	SB1000	1104	SC350	2009	SD-6	565	SD165	1102	SDT6011	2020
SA836X	2023	SB5122	2007	SC785	2009	SD6	1104	SD-201	1104	SDT6013	2020
SA836Y	2023	SB8-260	1104	SC784	2016	SD6(DUAL)	1143	SD201	1104	SDT6031	2020
SA841A	2023	SC05	1104	SC821	561	SD-6AUF	1114	SD202	1104	SDT6103	2020
SA841B	2023	SC05E	1104	SC821A	561	SD-7(PHILCO)	1102	SD282A	1124	SDT7511	2020
SA841C	2023	SC1	1104	SC823	561	SD7(RECT)	1114	SD345	2020	SDT7512	2020
SA841D	2023	SC2	1104	SC823A	561	SD-8	562	SD-404	1124	SDT7514	2020
SA841E	2023	SC2C	1104	SC825	561	SD8	1114	SD445	2027	SDT7515	2020
SA841F	2023	SC-4	1104	SC825A	561	SD-8(PHILCO)	562	SD461	1123	SDT9009	2020
SA841G	2023	SC4	1104	SC827	561	SD10	1104	SD470	1104	SDT9201	2041
SA841L	2023	SC-6	1123	SC827A	561	SD-12	1123	SD500	1102	SDT9205	2041
SA841M	2023	SC-7	1020	SC829	561	SD12	1123	SD500C	1104	SDT9206	2041
SA841R	2023	SC-7(PHILCO)	1020	SC829A	561	SD12(PHILCO)	1102	SD501	1104	SDT9210	2041
SA841T	2023	SC8	1114	SC832	2009	SD12B	1123	SD600	1102	SDT9261	2041
SA841X	2023	SC8A	1114	SC832	2009	SD12E	1123	SD600C	1104	SDT9301	2041
SA841Y	2023	SC10	1114	SC842	2009	SD12H	1123	SD630	1102	SDT9302	2041
SA842A	2023	SC10A	1114	SC1001	2009	SD13	1104	SD632	562	SDT9303	2041
SA842B	2023	SC-12	2007	SC1007	2007	SD13	1104	SD632(10)	562	SDT9304	2041
SA842C	2023	SC12	2007	SC1010	2009	SD-13(PHILCO)	1123	SD701-02	1102	SDT9306	2041
SA842D	2023	SC12(DIODE)	1102	SC-1016	1103	SD14	1123	SD800	1114	SDT9307	2041
SA842E	2023	SC16	1104	SC1169G	2009	SD14	1123	SD838	1124	SDT9308	2041
SA842F	2023	SC16	1104	SC1168H	2009	SD-15	562	SD918	1114	SDT9309	2041
SA842G	2023	SC23-3	1104	SC1227F	2010	SD15	1123	SD918A	1114	SD-Y	1104
SA842L	2023	SC23-9	1104	SC1227G	2010	SD-16	1123	SD918S	1114	SE0001	2058
SA842M	2023	SC43	2007	SC1229E	2050	SD16	1123	SD950	1104	SE002(1)	2010
SA842R	2023	SC44	2007	SC1229G	2009	SD16A	1104	SD974	1102	SE0	1114
SA842T	2023	SC45	2007	SC1414	1104	SD-16D	1104	SD1101	1104	SE-05	1104
SA842X	2023	SC46	2007	SC1431	1104	SD-18	1104	SD1102	1104	SE05	1104
SA842Y	2023	SC54	1123	SC1431(GE)	1102	SD18	1104	SD1103	1104	SE-05-01	1104
SA853	2007	SC-63	2007	SC1631	1104	SD-19	1171	SD1104	1104	SE-05-02	1104
SA909A	2023	SC63	2007	SC1631(GE)	1104	SD20	1104	SD1345	2020	SE-05-A	1104
SA909B	2023	SC-65	2009	SC4001BH	2401	SD21A	1123	SD1445	2027	SE-05-B	1104
SA909C	2023	SC65	2009	SC4001UBC	2401	SD23	1104	SD11441	2016	SE-05-C	1114
SA909D	2023	SC-66	2007	SC4010	2009	SD-27	562	SDA345	2020	SE-05-D	1114
SA909E	2023	SC66	2007	SC-4044	2009	SD27	562	SDA445	2027	SE-05A	1104
SA909F	2023	SC-68	2007	SC4044	2009	SD33	563	SD8345	2020	SE05A	1144
SA909G	2023	SC68	2007	SC4116	1104	SD-34	1102	SD8445	2027	SE05B	1104
SA909L	2023	SC-69	2007	SC4131	2030	SD34	1123	SD05	1101	SE-05C	1114
SA909M	2023	SC69	2007	SC4131-1	2030	SD-43	1102	SD06	1101	SE05C	1114
SA909R	2023	SC-71	2007	SC4167	2030	SD43	1102	SDD420	2030	SE05D	1104
SA909T	2023	SC71	2007	SC-4244	2009	SD45	1104	SDD421	2009	SE05S	1104
SA909X	2023	SC-72	2007	SC4244	2030	SD46	1123	SDD820	2010	SE05S5	1104
SA909Y	2023	SC72	2007	SC4303	2020	SD46-2	1123	SDD821	2009	SE-05X	1104
SA-93792	1102	SC-73	2007	SC4303-1	2020	SD46-2	1123	SDD1220	2030	SE-0566	2009
SA-93794	562	SC73	2007	SC4303-2	2020	SD51	1124	SDD3000	2009	SE05-01	1104
SA81044	2016	SC-74	2007	SC4308	2020	SD51	1124	SD-ER824-04D	1104	SE-05A	1144
SA83469	2016	SC74	2007	SC9430P	1757	SD53	563	SDH-2	1123	SE-05B	1104
SAC-1843	2010	SC-78	2007	SC9436P	1759	SD54	1123	SDH-2HC	1124	SE-1.5A	1114
SAE-1	2041	SC78	2007	SCA05	1104	SD-56	1123	SDH345	2020	SE-2	1104
SAE-2	2043	SC-79	2007	SCA1	1104	SD56	1123	SDI445	2027	SE-5	1104
SATCHZ339	2010	SC79	2007	SCA2	1104	SD-60	1123	SDJ345	2020	SE5-0127	2016
SAW-151941	1104	SC-80	2007	SCA3	1104	SD60	1123	SDJ445	2027	SE5-0128	2009
SAW-151944	1104	SC80	2007	SCA4	1104	SD-60P	1104	SDK345	2020	SE5-0247-C	1103
SAW-25B56	2007	SC91	562	SCA5	1104	SD-61P	1104	SDK445	2027	SE5-0249	2016
SAW-25C372GR	2009	SC107	2009	SCA6	1104	SD-80	1114	SDL345	2020	SE5-0250	2016
SAW-25C372Y	2009	SC107A	2009	SCA8	1114	SD80	1104	SDL445	2027	SE5-0253	2009
SAW-25C945R	2009	SC107B	2009	SCA10	1114	SD82	1124	SDM345	2020	SE5-0274	2009
SB-01	1171	SC108	2009	SCA1103	1104	SD82A	1124	SDM445	2027	SE5-0366	2061
SB01	1104	SC108A	2009	SCA3022	2016	SD82AG	1124	SDN345	2020	SE5-0367	2009
SB01-02	1102	SC108B	2009	SCA3235	2016	SD-91	1104	SDN445	2027	SE5-0370	2023
SB-03	1104	SC108C	2009	SCA3236	2016	SD91	1141	SDO345	2020	SE5-0452	2030
SB-04	1173	SC109	2009	SCA3237	2016	SD-91A	1104	SDP345	2020	SE5-0456	1103
SB0319	2020	SC109A	2009	SCA3238	2016	SD91A	1143	SDR25	1104	SE5-0565	2016
SB1-01-04	1104	SC109B	2009	SCA3239	2016	SD-91S	1104	SDS-113	1104	SE5-0567	2009
SB-1Z	1104	SC-110	1104	SCA3240	2016	SD1-1	1143	SDS113	1104	SE5-0569	2016
SB1Z	1141	SC110	1104	SCA3243	2016	SD1-211B	1104	SDS240	2016	SE5-0608	2009
SB-2(CENTERING)	1101	SC136D	1000	SCA3244	2016	SD1-211C	1104	SDS240	1143	SE5-0745	2061
SB-2(CENTERING-58	1114	SC147	2009	SCA3246	2016	SD1-211C	1104	SDT425	2055	SE5-0798	2023
SB2CH	1101	SC147A	2016	SCBR05F	1114	SD1-211C	1104	SDT445	2027	SE-5-0819	2007
SB-3	1104	SC147B	2016	SCBR1F	1114	SD1-Z	1104	SDT445	2027	SE5-0831	2023
SB-3-02	1104	SC148	2016	SCBR6	1114	SD1A	1104	SDT1006	2055	SE5-0848	2009
SB-3F01	1104	SC148A	2016	SCBR6F	1114	SD-1AHF	1101	SDT1007	2055	SE5-0854	2009
SB-3F	1104	SC148B	2016	SCBR10	1114	SD-1AUF	1102	SDT1016	2055	SE5-0855	2009
SB-3N	1104	SC148C	2016	SCBR35F	1114	SD-1B	1104	SDT1017	2055	SE5-0887	2009
SB5	2041	SC149	2016	SCD-T334	2027	SDIC	1114	SDT3509	2027	SE5-0888	2009
SB6	2041	SC149B	2016	SCD-T320	2041	SD-1C-4F	1104	SDT3510	2027	SE5-0909	2023
SB7	2041	SC157	2061	SCD-T322	2009	SD-1C-UF	1104	SDT3513	2027	SE5-0933	1759
SB-100	2007	SC157A	2061	SCD-T323	2009	SD-1CUF	1104	SDT3514	2027	SE5-0938	2016
SB100	2007	SC157V1	2023	SCD-T326	2023	SDICUF	1104	SDT3701	2027	SE5-0938-54	2009
SB101	2007	SC157V1	2061	SCD-T330	2020	SDIDM-4	1104	SDT3702	2027	SE5-0938-55	2016
SB102	2007	SC158	2061	SCE1	1104	SD1HF	1104	SDT3703	2027	SE5-0938-56	2016
SB103	2007	SC158A	2061	SCE2	1104	SD1HF	1104	SDT3704	2027	SE5-0938-57	2016
SB104	2007	SC158B	2023	SCE3	1104	SD-1L	1104	SDT3706	2027	SE5-0949	2023
SB168	2007	SC158V1	2023	SCE4	1104	SD1L	1104	SDT3707	2027	SE5-0958	2030
SB169	2007	SC158V1	2061	SCE6	1104	SD-1LA	1104	SDT3708	2027		

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SE5-1057	2023	SE-6002	2009	SFR254	1104	SG-005	1104	SIB020-1B	1171	SJSW-05-02	1104
SE5-1223	2023	SE6002	2016	SFR255	1104	SG005	1144	SIB0102	1104	SJSW-0502	1104
SE6	1104	SE6006	2030	SFR256	1104	SG-6N	1114	SIB0201CR	1104	SITVR-06G	1104
SE6(DUAL)	1101	SE6010	2009	SFR258	1114	SG-8P	1114	SIB-0306	1114	SJ051E	1104
SE15B	1114	SE6020	2009	SFR264	1104	SG-5T	1102	SIB01-02	1104	SJ051F	1104
SE15C	1114	SE6020A	2030	SFR266	1104	SG-105	1104	SIB0L	1104	SJ052E	1104
SE15D	1114	SE6021	2030	SFR268	1114	SG105	1104	SIB1	1104	SJ052F	1104
SE30B26A	1104	SE6021A	2030	SFT104	1123	SG-205	1104	SIB508794-1	1171	SJ053F	1141
SE46	1104	SE6022	2030	SFT108	1123	SG205	1143	SIB-C1-02	1102	SJ60F	1104
SE50	2058	SE6023	2030	SFT120	2007	SG-305	1104	SI-CA3065E	1759	SJ101F	1104
SE500G	2010	SE7005	2030	SFT151	2007	SG305	1144	SID01E	1104	SJ102F	1104
SE504	2010	SE7015	2030	SFT152	2007	SG323	1104	SID01K	1114	SJ103F	1143
SE521	2010	SE-8001	2030	SFT162	2007	SG505	1104	SID01L	1104	SJ201F	1104
SE555V	1723	SE8001	2030	SFT-163	2007	SG555CM	1723	SID02E	1104	SJ202F	1104
SE-1001	2058	SE8002	2030	SFT163	2007	SG555M	1723	SID02K	1114	SJ203F	1143
SE1001	2016	SE-8010	2030	SFT171	2007	SG723CD	1740	SID02L	1104	SJ301F	1104
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SE1001-2	2058	SE8012	2030	SFT173	2007	SG741CM	007	SID508851	1102	SJ401F	1104
SE-1002	2009	SE8040	2009	SFT174	2007	SG-805	1104	SID51C052-19	1114	SJ402F	1104
SE1002	2016	SE8041	2030	SFT221	2007	SG-1198	1104	SID51C169	1104	SJ403F	1144
SE1002-1	2016	SE8042	2030	SFT221A	2007	SG1198	1104	SID50894	1102	SJ501F	1104
SE1002-2	2016	SE8510	2030	SFT222	2007	SG1458M	038	SIDA05K	1114	SJ-570	1104
SE-1010	2016	SE8520	2030	SFT222A	2007	SG2182(PNP)	2007	SIDA05N	1114	SJ570	2009
SE1010	2016	SE8521	2030	SFT223	2007	SG2183(PNP)	2007	SIDA05P	1114	SJ601F	1104
SE-1019	2010	SE9002	2041	SFT226	2007	SG3182	1102	SIF14A-P	1104	SJ619	2041
SE1019	2010	SE9080	2041	SFT227	2007	SG3183	1102	SIG1/100	1143	SJ619-1	2041
SE-1044	2010	SEL-1120R	070	SFT228	2007	SG3198	1102	SIG1/200	1143	SJ820	2041
SE1044	2010	SELEN-42	1101	SFT229	2007	SG3400	1104	SIG1/400	1104	SJ821	2043
SE-1331	2009	SELEN-44	1171	SFT232	2007	SG3432	1102	SIG1/600	1104	SJ1003F	1114
SE1331	2009	SELEN-64	1114	SFT237	2007	SG3516	1102	SIL	1114	SJ1106	2041
SE-1419	2010	SELEN-70	1104	SFT251	2007	SG3583	1102	SIL-200	1104	SJ1152	2027
SE1419	2010	SELEN-701	1104	SFT252	2007	SG5013	2030	SIL200	1104	SJ1171	2027
SE1730	1114	SEN2A1	1171	SFT253	2007	SG5028	1102	SI-LM3065N	1759	SJ1284	2027
SE-2001	2009	SEN2A4	1173	SFT268	2007	SG5392	1102	SI-MC1358P	1759	SJ1470	2041
SE2001	2016	SE5632	2041	SFT288	2007	SG5400	1102	SIR20	1104	SJ2000	2041
SE2002	2016	SE5881	2041	SFT-306	2007	SG7812	1771	SIR60	1104	SJ2001	2043
SE2020	2010	SFOR1A41	1067	SFT306	2007	SG9150	1102	SIR-80	1104	SJ2008	2041
SE2397	2010	SFIA111	1067	SFT-307	2007	SGB-9742	2010	SIRB-10	1171	SJ2032	2030
SE2400	2007	SFIA111A	1067	SFT307	2007	SGC-7202	2009	SIRB10	1114	SJ3464	2041
SE2401	2009	SFIB11	1067	SFT308	2007	SGC7202	2030	SI-REC-73	1104	SJ3520	2043
SE2402	2009	SFIB11A	1067	SFT-315	2007	SGRI100	1104	SI-RECT-044	1104	SJ3604	2041
SE-3001	2010	SFICN1	1114	SFT315	2007	SGS87231	2016	SI-RECT-2	1104	SJ3629	2009
SE3001	2016	SFID11	1067	SFT-316	2007	SH-1	1104	SI-RECT-2	1104	SJ3678	2041
SE3001R	2010	SFID11A	1067	SFT316	2007	SH1	1104	SI-RECT-20	1104	SJ3679	2043
SE3001Y	2010	SFIR3D41	1067	SFT-317	2007	SH-1A	1104	SI-RECT-25	1104	SJ3679	2043
SE3002	2016	SF3CN1	1114	SFT317	2007	SH1A	1104	SI-RECT-27	1104	SJ3679	2043
SE3003	2010	SF3G14	1020	SFT318	2007	SH-1B	1104	SI-RECT-33	1104	SJ8701	2041
SE-3005	2016	SF4	1114	SFT-319	2007	SH1B	1114	SI-RECT-34	1104	SJ9110	2041
SE3005	2016	SF4CN1	1114	SFT319	2007	SH1C	1114	SI-RECT-35	1102	SJE42	2020
SE-3019	2010	SF5	1114	SFT-320	2007	SH-1DE	1104	SI-RECT-36	1104	SJE-513	2020
SE3019	2016	SF6	1114	SFT320	2007	SH-1S	1104	SI-RECT-37	1104	SJE613	2020
SE3032	2041	SF115	2058	SFT321	2007	SH1S	1143	SI-RECT-39	1104	SJE614	2027
SE3033	2041	SF115A	2058	SFT-322	2007	SH-1Z	1102	SI-RECT-48	1104	SJE-515	2020
SE3035	2041	SF115B	2058	SFT322	2007	SHAD05	1104	SI-RECT-49	1104	SJE515	2020
SE3036	2041	SF115C	2058	SFT-323	2007	SHAD1	1104	SI-RECT-53	1104	SJE677	2027
SE3100	2059	SF115D	2058	SFT323	2007	SHAD2	1104	SI-RECT-59	1104	SJE678	2020
SE-3646	2009	SF115E	2058	SFT-327	2007	SHAD3	1104	SI-RECT-59	1104	SJE694	2020
SE3646	2016	SF167	2007	SFT327	2007	SHAD4	1104	SI-RECT-69	1104	SJE695	2027
SE-4001	2009	SF173	2016	SFT-337	2007	SHAD6	1104	SI-RECT-73	1104	SJE783	2020
SE4001	2009	SF194	2016	SFT337	2007	SHAD8	1114	SI-RECT-74	1104	SJE5439	2020
SE-4002	2009	SF194B	2016	SFT337B	2007	SH15	1104	SI-RECT-75	1104	SJE5441	2020
SE4002	2009	SF195	2016	SFT337V	2007	SH1064	2009	SI-RECT-77	1104	SK-1B	1104
SE4010	2009	SF195C	2016	SFT351	2007	SHA7530	2023	SI-RECT-84	1104	SK1FM	1104
SE-4020	2030	SF195D	2016	SFT-352	2007	SHA7531	2023	SI-RECT-92	1104	SK1K-2	1104
SE4020	2016	SF196	2016	SFT352	2007	SHA7532	2023	SI-RECT-92	1104	SK-1W50	1123
SE4020/6-04	2016	SF197	2016	SFT-353	2007	SHA7533	2023	SI-RECT-94	1104	SK74LS367	1835
SE4021	2016	SF294	2016	SFT353	2007	SHA7534	2023	SI-RECT-100	1104	SK-218	1104
SE4022	2016	SF294B	2016	SFT354	2007	SHA7536	2023	SI-RECT-100-102	1104	SK218	1104
SE4172	2009	SF295	2016	SFT-357	2007	SHA7537	2023	SI-RECT-102	1104	SK1320	2010
SE-5001	2010	SF295C	2016	SFT357	2007	SHA7538	2023	SI-RECT102	1104	SK1639	2023
SE5001	2016	SF295D	2016	SFT357P	2007	SHAD-1	1104	SI-RECT-102	1104	SK1639D	2023
SE-5002	2010	SF310	2016	SFT-358	2007	SHAD1	1104	SI-RECT-102A	1114	SK1640	2023
SE5002	2016	SF314	2016	SFT358	2007	SI05	1141	SI-RECT-110	1114	SK1640A	2009
SE-5003	2010	SF334	2016	SFT440	2030	SI-05A	1114	SI-RECT-110/SB-3F	1104	SK1641	2009
SE5003	2016	SF334B	2016	SFT443	2030	SI05A	1141	SI-RECT-112	1114	SK1856	2023
SE5004	2016	SF335	2016	SFT443A	2030	SI1	1143	SI-RECT-112/SB-3	1114	SK1856A	2023
SE-5006	2009	SF335C	2016	SFT445	2030	SI-1A	1114	SI-RECT-122	1104	SK2604	2023
SE5006	2010	SF335D	2016	SFT526	2007	SI1A	1143	SI-RECT-126	1104	SK2604A	2023
SE-5006-14	2010	SF1001	2009	SFT713	2009	SI15554	1103	SI-RECT-136	1114	SK3003	2007
SE5010	2010	SF1713	2009	SFT714	2009	SI-2A	1114	SI-RECT-140	561	SK3003A/126	2007
SE5015	2010	SF1714	2009	SF2716	563	SI-3A	1114	SI-RECT-140/TR-6	561	SK3004	2007
SE-5020	2010	SF1726	2009	SF-1125	2007	SI-4A	1114	SI-RECT-144	1104	SK3005	2007
SE5020	2016	SF1730	2009	SF-1163	2007	SI-5A	1114	SI-RECT-152	1102	SK3006	2007
SE-5021	2010	SF8014	2023	SF-1171	2007	SI-6A	1114	SI-RECT-154	1104	SK3006/160	2007
SE5021	2016	SFB6183	1104	SF-1172	2007	SI-7A	1114	SI-RECT-155	1104	SK3007	2007
SE5022	2016	SFD43	1102	SF-1173	2007	SI-8A	1114	SI-RECT-156	1104	SK3008	2007
SE5023	2016	SFD83	1102	SF-1174	2007	SI8A	1114	SI-RECT-168	565	SK3016	1104
SE5024	2016	SFD107	1123	SF-1222	2007	SI-10A	1114	SI-RECT-178	1101	SK3017A	1104
SE5025	2058	SFD111	1123	SF-1227	2007	SI10A	1114	SI-RECT-178B	1101	SK3017B/117	1104
SE5029	2010	SFD112	1123	SF-1228	2007	SI05E	1104	SI-RECT-204	1114	SK3018	2016
SE5030	2010	SFIR3B41	1067	SF-1237	2007	SI91G	1104	SI-RECT-208	1114	SK3019	2010
SE5030A	2009	SFIR3D41	1067	SF-1261	2007	SI100E	1104	SI-RECT-218	1104	SK3020	2009
SE5030B	2009	SFOR1A41	1067	SF-1262	2007	SI1000E	1114	SI-RECT-220	1104	SK3020/123	2009
SE5031	2010	SFOR1B41	1067	SF-1263	2007	SI80-1	1104	SI-RECT-222	1104	SK3024	2030
SE5032	2016	SFOR2D41	1067	SF-1306	2007	SI801	1104	SI-RECT-226	1104	SK3024/128	2030
SE5035	2016	SFR135	1104	SF-1307	2007	SI801-01	1104	SI-RECT-228	563	SK3027	2041
SE5036	2010	SFR151	1104	SF-1315	2007	SI801-02	1104	SI-RECT-230	563	SK3027/130	2041
SE5040	2010	SFR152	1104	SF-1316	2007	SI801-04	1104	SI-RECT-230	1114	SK3029/130MP	2041
SE-5050	2010	SFR153	1104	SF-1317	2007	SI801-06	1104	SI-RECT-44	1104	SK3030	1104
SE5050	2016	SFR154	1104	SF-1318	2007	SI801-06B	1104	SI2	1123	SK3031	1104
SE5051	2016	SFR155	1104	SF-1319	2007	SI8-01-022	1104	SI11	1123	SK3031A	1104
SE5052	2016	SFR156	1104	SF-1320	2007	SI802-03C	1104	SI20	1123	SK3032	1114
SE5056	201										

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SK3444	2009	SK9004/5801	1143	SLA15C	1104	SM-1-005	1104	SM843	2007	SN72723J	1740
SK3444/123A	2009	SK9005/5802	1143	SLA16AB	1104	SM1-02	1104	SM862	2007	SN72723N	1740
SK3452	2010	SK9006/5803	1144	SLA16C	1104	SM1-08	1114	SM1297	2007	SN72741P	007
SK3452/108	2010	SK9007/5804	1144	SLA17AB	1104	SM1-47	1104	SM1507	2023	SN72905	1773
SK3465	038	SK9112/377	2020	SLA17C	1104	SM1-K	1104	SM1600	2007	SN76008	1758
SK3465/778	038	SK9124/6409	2029	SLA18AB	1114	SM1K	1144	SM2491	2007	SN76477	1765
SK3465/778A	038	SK9161/457	2062	SLA18C	1114	SM4	1104	SM2492	2007	SN76495	1767
SK3466	2023	SK9164/451	2035	SLA19AB	1114	SM5	1104	SM2700	2009	SN76530P	1757
SK3466/159	2023	SK9173/948	1714	SLA19C	1114	SM-10	1104	SM2701	2009	SN76600	1758
SK3479	2009	SK9210/823	1731	SLA21A	1141	SM10	1104	SM2716	2030	SN76600N	1758
SK3506	1000	SK9215/956	1778	SLA21B	1141	SM11	1104	SM3014	2007	SN76600P	1758
SK3506/5642	1000	SK9229/85	2009	SLA21C	1141	SM20	1104	SM3104	2009	SN76644N	1759
SK3510	2041	SK-31024-3	2010	SLA22A	1143	SM30	1104	SM3117A	2009	SN76645	1759
SK3534	2020	SK31024-3	2010	SLA22B	1143	SM31	1104	SM3505	2009	SN76665N	1759
SK3552	007	SKA0030	2009	SLA22C	1143	SM40	1104	SM3978	2030	SN76666	1759
SK3552/941M	007	SKA1080	2009	SLA23B	1143	SM50	1104	SM3986	2009	SN-76666N	1759
SK3564	1723	SKA1117	2009	SLA23C	1143	SM51	1104	SM-4304-S	2016	SN76666N-S	1759
SK3564/955M	1723	SKA1279	2023	SLA24A	1144	SM60	1104	SM4304-S	2058	SN76666N-S	1759
SK3569	1712	SKA1395	2009	SLA24B	1144	SM70	1114	SM-4508-B	2009	SN766608	1758
SK3569/834	1712	SKA1416	2010	SLA24C	1144	SM71	1114	SM4508-B	2009	SNO303	1104
SK3583	1001	SKA-4061	2023	SLA25A	1144	SM73	1114	SM4547	2023	SN7204	2023
SK3583/5641	1001	SKA4074	2010	SLA25B	1144	SM73(DIODE)	1114	SM4574A	2023	SN7204A	2023
SK3591	1770	SKA-4075	2010	SLA25C	1144	SM80	1114	SM4719	2023	SNW-Q-1	2007
SK3591/960	1770	SKA4075	2010	SLA440	1104	SM81	1114	SM5379	2009	SNW-Q-4	2007
SK3592	1771	SKA-4076	2058	SLA440B	1104	SM83	1114	SM-5564	2009	SNW-Q-6	2007
SK3592/966	1771	SKA4076	2010	SLA441	1104	SM100	1114	SM5564	2009	SO-1	2007
SK3593	1772	SKA4129	2023	SLA441B	1104	SM101	1114	SM-5643	2009	SO1	2007
SK3593/968	1772	SKA4141	2009	SLA442	1104	SM103	1114	SM5643	2009	SO-2	2007
SK3595	1720	SKA4525	2010	SLA442B	1104	SM105	1104	SM5796	2010	SO2	2007
SK3595/989	1720	SKA-4590	2058	SLA443	1104	SM110	1104	SM5981	2009	SO-3	2007
SK3597	1067	SKA4416	2030	SLA443B	1104	SM112	1104	SM6251	2030	SO3	2007
SK3597/5455	1067	SKA4768	2014	SLA444	1104	SM120	1104	SM6762	2009	SO5	1104
SK3598	1020	SKA-4802	2014	SLA444A	1104	SM130	1104	SM6773	2009	SO5	1104
SK3598/5457	1020	SKA5248	2010	SLA444B	1104	SM140	1104	SM7845	2009	SO10G	1114
SK3627	1067	SKA-5541	2014	SLA-445	1104	SM-150	1114	SM-7815	2009	SO-25	2007
SK3627/5404	1067	SKA-5886	2010	SLA445	1104	SM150	1114	SM7815	2009	SO25	2007
SK3638	1067	SKA5886	2010	SLA445B	1104	SM-150-005	1114	SM-7836	2009	SO65	2007
SK3638/5402	1067	SKA6250	2023	SLA536	1104	SM150-01	1114	SM7836	2009	SO-65A	2007
SK3643	1711	SKA-6256	2009	SLA537	1104	SM-150-02	1114	SM7991	2030	SO65A	2007
SK3643/967	1711	SKA-6437	2009	SLA538	1104	SM150-02	1114	SM8112	2009	SO-88	2007
SK3648/168	1173	SKA-9105	2009	SLA539	1104	SM-150-02(CENTERING)	1104	SM8113	2009	SO88	2007
SK3664	1001	SKA9013	2010	SLA540	1104	SM-150-04	1104	SM8341	2007	SO88	1104
SK3664/5602	1001	SKA9096	2010	SLA547	1104	SM-150-06	1104	SM8978	2009	SO88	1104
SK3665/5603	1001	SKB8339	2009	SLA561	1114	SM-150-08	1104	SM9008	2009	SO-652	562
SK3666/5605	1000	SKWHC7006	2023	SLA561	1114	SM-150-08	1114	SM9135	2009	SO-19006	2016
SK3671/961	1773	SL-030	1104	SLA569	1104	SM150-6	1114	SM9253	2009	SO2594	2016
SK3683/5511	1067	SL030/3490	1104	SLA599A	1104	SM150-10	1114	SM-A-595830-12	2010	SOA	1114
SK3684/5512	1020	SL0305	1104	SLA600	1104	SM150-11	1114	SM-A-726655	2009	SOD30AL	1141
SK3688/992	1713	SL-030T	1104	SLA600A	1104	SM-150-A	1104	SM-A-726658	2023	SOD30BL	1141
SK3689/978	1728	SL030T	1104	SLA601	1104	SM-150-B	1104	SM-A-726664	2009	SOD30DL	1141
SK3710	2055	SL0305.T	1104	SLA601A	1104	SM-150-C	1104	SMB447610	2007	SOD50AL	1141
SK3710/238	2055	SL-2	1104	SLA602	1104	SM-150-D	1114	SMB447610A	2007	SOD50BL	1141
SK3716	2016	SL2	1104	SLA602A	1104	SM150A	1114	SMB454549	2007	SOD50CL	1141
SK3716/161	2016	SL-3	1104	SLA603	1104	SM-150B	1114	SMB454760	2007	SOD50DL	1141
SK3721	2007	SL-4	1104	SLA603A	1104	SM150B	1114	SM-B-523974	2023	SOD100AL	1143
SK3721/100	2007	SL-5	1143	SLA604	1104	SM150C	1114	SMB-541191	1102	SOD100BL	1143
SK3722	2007	SL5	1104	SLA604A	1104	SM150D	1114	SM-B-574495	2023	SOD100DL	1143
SK3722/102	2007	SL91	1104	SLA605	1104	SM150S	1114	SM-B-610342	2009	SOD200AL	1143
SK3749	562	SL92	1104	SLA605A	1104	SM150SS	1114	SMB621960	2007	SOD200BL	1143
SK3749/5073A	562	SL93	1104	SLA606	1104	SM160	1104	SM-B-686767	2009	SOD200CL	1143
SK3751	564	SL-100	2010	SLA606A	1104	SM170	1114	SMB-706009D	2030	SOD-200D	1114
SK3751/5075A	564	SL-100	2010	SLA1095	1104	SM180	1114	SMC7400N	1801	SOD200DL	1104
SK3776/5010A	565	SL-103	1143	SLA1096	1104	SM200	1114	SMC7408N	1822	SOD200DL	1143
SK3787	563	SL103	1104	SLA1100	1104	SM205	1104	SMC7490N	1808	SP-1	1104
SK3787/5021	563	SL119	1104	SLA1101	1104	SM210	1104	SM-C-583256	1808	SP1	1104
SK3787/5021A	563	SL300	2009	SLA1102	1104	SM-217	1104	SMC-583259	2030	SP1K-1	1104
SK3790	564	SL301C	2030	SLA1103	1144	SM217	1104	SMC-620774-1	2030	SP1K-2	1104
SK3790/502A	564	SL301CE	2030	SLA1104	1104	SM220	1104	SM-C-706156	1103	SP1U-2	1104
SK3790/5024A	564	SL403	2059	SLA1105	1104	SM230	1104	SN0303	1104	SP-1.5A	1141
SK3852/1232	703	SL608	1114	SLA1487	1104	SM240	1104	SN-1	1104	SP2	2007
SK3854/123AP	2009	SL1610	1114	SLA1488	1104	SM2491	2007	SN1	1104	SP2-01	1771
SK3862/103	2007	SL708	1114	SLA1489	1104	SM250	1104	SN-1Z	1104	SP2-04	1773
SK3893/152	2020	SL710	1104	SLA1490	1104	SM260	1104	SN74LS367N	1835	SP6GD1	1101
SK3896/261	2068	SL-833	1104	SLA1491	1104	SM270	1114	SN166	2030	SP6GX1	1101
SK3911	2059	SL833	1104	SLA1492	1104	SM280	1114	SN167	2030	SP9	2007
SK3912	2023	SL-833A	1104	SLA1692	1104	SM300	1114	SN-400-319-P1	2023	SP10	2009
SK4001	2401	SL833A	1104	SLA1693	1104	SM483	1104	SN2222AP	2009	SP11	2010
SK4009	2449	SL3693	2010	SLA1694	1104	SM486	1104	SN4448	1103	SP14	2041
SK4011	2411	SL7990	2009	SLA1695	1104	SM487	1104	SN7400	1801	SP17	2009
SK4013	2413	SL14971	1822	SLA1696	1104	SM488	1104	SN7400A	1801	SP18	2030
SK4017	2417	SL16793	1801	SLA1697	1104	SM505	1104	SN7400J	1801	SP34AS	1123
SK4023	2423	SL16794	1801	SLA2610	1104	SM510	1104	SN7400N	1801	SP60	1123
SK4049	2449	SL16796	1802	SLA2611	1104	SM512	1104	SN7400N-10	1801	SP70	2023
SK4066	2466	SL16798	1822	SLA2612	1104	SM513	1104	SN7401J	1801	SP82	1124
SK5797	2023	SL17869	1822	SLA2613	1104	SM514	1104	SN7401N	1801	SP82A	1124
SK5798	2023	SL21385	1740	SLA2614	1104	SM515	1104	SN7404N	1802	SP90	2023
SK5801	2009	SL21654	1759	SLA2615	1104	SM516	1104	SN7404N-10	1802	SP101	1102
SK5915	2009	SL22310	1740	SLA2616	1114	SM517	1114	SN7408J	1822	SP295	1123
SK6345	2023	SL22745	007	SLA2617	1114	SM518	1114	SN7408N	1822	SP3003	2007
SK6346	2023	SL22935	1740	SLA3193	1104	SM520	1114	SN7408N-10	1822	SP3004	2007
SK6347	2023	SL23059	007	SLA3194	1104	SM576-1	2009	SN7447A-J	1805	SP3005	2007
SK6347A	2023	SL23147	1759	SLA3195	1104	SM576-2	2009	SN7447A-N	1805	SP3006	2007
SK6601/5601	1001	SL23252	007	SLA3196	1114	SM645	1104	SN7447J	1805	SP3007	2007
SK7181	2010	SL23325	1740	SLA5197	1141	SM646	1104	SN7447N-10	1805	SP3008	2007
SK7400	1801	SL23496	007	SLA5198	1143	SM705	1104	SN7490A-J	1808	SP3016	1104
SK7401	1801	SL53431	1801	SLA5199	1143	SM710	1104	SN7490AN	1808	SP3018	2010
SK7404	1802	SLA01	1114	SLA5200	1144	SM-716	2009	SN7490N	1808	SP3019	2010
SK7408	1822	SLA11AB	1104	SLA01	1114	SM716	2009	SN7490N-10	1808	SP3020	2009
SK7447	1805	SLA11C	1104	SLP-235B(GR)	037	SM720	1104	SN7666	1759	SP3024	2030
SK7490	1808	SLA12AB	1104	SLP-236B(G							

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SPS-1539	2023	SPS4020	2009	SPS4360	2009	SR1C-20	1114	SR-13H	1104	SR1731-4	1104
SPS-1539(WT)	2016	SPS4025	2023	SPS4361	2030	SR1D-1	1104	SR13H	1104	SR1731-5	1104
SPS-1539WT	2023	SPS4025A	2023	SPS4363	2009	SR1D1M	1104	SR-14	1104	SR1742	1104
SPS1593WT	2023	SPS4026	2023	SPS4365	2023	SR1D-2	1104	SR14	1101	SR1762	1143
SPS1802	2009	SPS4026A	2023	SPS4365A	2023	SR1D-4	1104	SR15	1101	SR1766	1104
SPS1817	2009	SPS4027	2023	SPS4367	2009	SR1D-6	1104	SR-1849-1	1104	SR1766	1104
SPS1846	2058	SPS4027A	2023	SPS4368	2009	SR1D-8	1104	SR17	1104	SR1984	1104
SPS1977	2009	SPS4028	2023	SPS4382	2009	SR1DM	1104	SR-18	1104	SR2121	1104
SPS2104	2009	SPS4028A	2023	SPS4390	2009	SR1DM-1	1104	SR-22	1104	SR2301	1104
SPS2110	2010	SPS4029	2009	SPS4391	2030	SR1DM1	1104	SR22	1104	SR2301A	1104
SPS2111	2010	SPS4030	2010	SPS4392	2009	SR1DM-2	1141	SR-23	1104	SR3010	1104
SPS2129	2009	SPS4031	2023	SPS-4396	2009	SR1DM-4	1104	SR23	1104	SR3582	1104
SPS2130	2030	SPS4031A	2023	SPS4397	2023	SR1DM-6	1104	SR-24	1104	SR3943	1104
SPS2134	2041	SPS4032	2009	SPS4399	2010	SR1DM-8	1104	SR24	1104	SR6134	1104
SPS2135	2010	SPS4034	2009	SPS4423	2010	SR1DM-10	1104	SR-27	1104	SR6324	1104
SPS2142	2009	SPS4037	2009	SPS4436	2058	SR1DMX	1104	SR27	1104	SR6325	1104
SPS2144	2009	SPS4038	2030	SPS4443	2009	SR1E	1104	SR-28	1104	SR6385	1104
SPS2167	2010	SPS4039	2009	SPS4446	2009	SR1EM	1104	SR28	1104	SR6415	1104
SPS2194	2009	SPS4040	2009	SPS4450	2009	SR1EM-1	1104	SR-30	1104	SR6560	1104
SPS2216	2016	SPS4041	2009	SPS4451	2009	SR1EM1	1104	SR30	1104	SR6567	1104
SPS2217	2016	SPS4042	2009	SPS4452	2023	SR1EM-2	1104	SR-34	1102	SR6617	1104
SPS2224	2010	SPS4043	2010	SPS4452A	2023	SR1EM2	1104	SR-35	1114	SR6723	1104
SPS2225	2009	SPS4044	2009	SPS4453	2009	SR1EM-4	1114	SR35	1104	SR6724	1104
SPS-2265	2010	SPS4045	2009	SPS4455	2009	SR1EM-6	1104	SR-37	1101	SR9003	1104
SPS2265	2010	SPS4049	2009	SPS4456	2009	SR1EM-8	1104	SR37	1101	SR9005	1104
SPS2265-2	2010	SPS4050	2010	SPS4457	2009	SR1EM-10	1104	SR40	1104	SR-9007	1114
SPS-2266	2010	SPS4051	2010	SPS4458	2023	SR1EM-12	1104	SR50	1104	SR20226	2058
SPS2266	2010	SPS4052	2009	SPS4458A	2023	SR1EM-16	1114	SR60	1104	SR20234	2009
SPS2269	2023	SPS4053	2009	SPS4459	2009	SR1EM-20	1114	SR-76	1104	SR50411-1	1104
SPS2270	2009	SPS4054	2023	SPS4460	2023	SR1EM-X	1104	SR76	1104	SR63197	2023
SPS2271	2016	SPS4054A	2023	SPS4460A	2023	SR1FM	1104	SR-100	1143	SR75844	2009
SPS2272	2023	SPS4055	2009	SPS4461	2030	SR1FM-1	1104	SR100	1104	SRIDM	1104
SPS2274	2023	SPS4056	2023	SPS4472	2009	SR1FM2	1104	SR-101-1	1104	SRIDM-1	1104
SPS2279	2023	SPS4056A	2023	SPS4473	2023	SR1FM-4	1104	SR101-1	1104	SRIDM-4	1104
SPS2320	2010	SPS4059	2009	SPS4473A	2023	SR1FM4	1104	SR-101-2	1104	SRIDM-1	1104
SPS2415	2009	SPS4060	2009	SPS4476	2009	SR1FM6	1104	SR101-2	1104	SRIDM-2	1104
SPS2425	2010	SPS4061	2009	SPS4478	2009	SR1FM-8	1104	SR105	1104	SRIDM-4	1104
SPS2644	2010	SPS4062	2009	SPS4480	2023	SR1FM8	1144	SR-112	1104	SR-1K-2	1104
SPS3003	2010	SPS4063	2009	SPS4480A	2023	SR1FM10	1104	SR112	1104	SR-1K-2	1104
SPS3015	2009	SPS4064	2023	SPS4489	2023	SR1FM-12	1114	SR-114	1143	SR1K-8	1104
SPS3329	2023	SPS4064A	2023	SPS4489A	2023	SR1FM12	1104	SR114	1104	SR1K1	1104
SPS3370	2010	SPS4066	2009	SPS4490	2030	SR1FM-16	1114	SR-120	1104	SRK-2	1104
SPS3724	2023	SPS4067	2009	SPS4491	2009	SR1FM16	1114	SR120	1104	SR1FM-1	1104
SPS3724A	2023	SPS4068	2010	SPS4493	2009	SR1FM-20	1114	SR-120-1	1104	SR50001	2007
SPS3735	2009	SPS4069	2009	SPS4494	2009	SR1FM20	1114	SR-130-1	1104	SR50001A	2007
SPS3751	2009	SPS4072	2023	SPS4495	2030	SR1FMA	1104	SR130-1	2010	SR50001O	1104
SPS3766	2023	SPS4072A	2023	SPS4498	2009	SR1K-0	1104	SR-131-1	1104	SR50002	2007
SPS3766A	2023	SPS4073	2023	SPS4610	2010	SR1K08	1104	SR131-1	1104	SR50002A	2007
SPS3787	2010	SPS4073A	2023	SPS4813	2023	SR-1K	1104	SR-132-1	1104	SR50003A	2007
SPS3900	2009	SPS4074	2009	SPS4814	2016	SR1K	1104	SR132-1	1141	SR50004	2007
SPS3907	2009	SPS-4075	2009	SPS4815	2023	SR1K/494	1104	SR135-1	1104	SR50004A	2007
SPS3908	2009	SPS4075	2009	SPS4920	2009	SR1K-1	1104	SR-136	1104	SR50005	2007
SPS3909	2009	SPS4076	2023	SPS4942	2009	SR1K1	1104	SR136	1141	SR50005A	2007
SPS3912	2030	SPS4076A	2023	SPS5000	2009	SR1K-1K	1104	SR144	1104	SR50007	1123
SPS3914	2030	SPS-4077	2030	SPS5006	2009	SR-1K-2	1104	SR145	1104	SR50008	1123
SPS3915	2009	SPS4077	2009	SPS5006-1	2009	SR-1K2	1104	SR150	1114	SR50009	1104
SPS3923	2009	SPS4078	2023	SPS5006-2	2009	SR1K-2	1104	SR-150-01	1104	SR500010	1104
SPS3924	2023	SPS4078A	2023	SPS5007	2023	SR1K2	1104	SR-150-1	1104	SR50001	2007
SPS3924A	2023	SPS4079	2010	SPS5007-1	2023	SR1K-2/494	1104	SR151	1104	SR-1	1104
SPS3925	2009	SPS4080	2010	SPS5007-1A	2023	SR-1K-2A	1114	SR152	1104	SR1-145128	2009
SPS3926	2009	SPS4081	2009	SPS5007-2	2023	SR-1K-2B	1114	SR154	1114	SR-2N5062	1067
SPS3927	2023	SPS4082	2023	SPS5007-2A	2023	SR-1K-2C	1114	SR200	1104	SR29A4	2023
SPS3927A	2023	SPS5007A	2023	SPS5007A	2023	SR-1K-2D	1114	SR200B	1104	SR29A5	2023
SPS3929	2010	SPS4083	2009	SPS5008	2023	SR1K-4	1104	SR205	1104	SR5155	2007
SPS3930	2009	SPS4084	2009	SPS5028	2007	SR1K-8	1104	SR210	1143	SR5321	1104
SPS3931	2023	SPS4085	2009	SPS5450	2061	SR1K8	1104	SR220	1143	SR5322	1104
SPS3931A	2023	SPS4086	2023	SPS5450S	2061	SR1K-12	1104	SR-390	1104	SR5324	1104
SPS3936	2009	SPS4086A	2023	SPS5457	2009	SR1K-16	1114	SR390	1104	SR5334	1104
SPS3937	2010	SPS4087	2023	SPS5458	2023	SR1K-20	1114	SR-401	1104	SR5337	1104
SPS3938	2009	SPS4087A	2023	SPS5569	2010	SR1K-2	1104	SR401	1104	SR5455	1104
SPS3940	2009	SPS4088	2009	SPS5808	2030	SR1K2	1104	SR405	1104	SR51606	2023
SPS3948	2010	SPS4089	2009	SPS6109	2023	SR1T	1104	SR475	1141	SR51906	2023
SPS3951	2009	SPS4090	2023	SPS6109A	2023	SR-1Z	1104	SR-499	1114	SR51906A	2023
SPS3952	2010	SPS4090A	2023	SPS6111	2009	SR1Z	1104	SR499	1114	SR52308	2009
SPS3957C	2009	SPS4091	2010	SPS6112	2009	SR-2	1114	SR500	1104	SR52503	2023
SPS3967	2009	SPS4095	2009	SPS6113	2009	SR2A-1	1104	SR500B	1104	SR52503A	2023
SPS3968	2010	SPS4143	2010	SPS6124	2030	SR2A1	1104	SR507	1143	SR52504	2009
SPS3971	2010	SPS4145	2010	SPS6155	2010	SR2A-2	1104	SR605	1104	SR53694	2009
SPS3972	2009	SPS4167	2010	SPS6571	2009	SR2A2	1104	SR806-126	1104	SR54001AE	2401
SPS3973	2009	SPS4168	2010	SPS6682	2010	SR2A-4	1104	SR-846-2	1104	SR54011AE	2411
SPS3987	2023	SPS4169	2009	SPS6953	2023	SR2A4	1104	SR846-2	1104	SR54013AE	2413
SPS3988	2023	SPS4199	2009	SPS7359	2009	SR2A-8	1114	SR846-3	1104	SR54023AE	2423
SPS3988A	2023	SPS4236	2009	SPS7652	2009	SR2A8	1104	SR851	1104	SR54042	2016
SPS3990	2023	SPS4272	2016	SPT3713	2041	SR2A-12	1114	SR851-121	1104	SR56724	2023
SPS3990A	2023	SPS4300	2030	SQ46	1123	SR2A12	1104	SR-889	1104	SR5928	2009
SPS3999	2009	SPS4302	2023	SQD-2170	2009	SR2B12	1114	SR889	1104	SR5A43	2023
SPS4000	2023	SPS4303	2009	SR-0005	1104	SR2B16	1114	SR1024	1104	SR5A43A	2023
SPS4002	2010	SPS4309	2030	SR-0007	1104	SR2B20	1114	SR1104	1104	SR5A43A-1	2023
SPS4003	2009	SPS4311	2030	SR-0008	1104	SR-3	1104	SR1266	1104	SR5A46	2023
SPS4004	2009	SPS4313	2009	SR05K-2	1104	SR3	1104	SR1378-1	1104	SR5A46A	2023
SPS4005	2010	SPS4316	2023	SR-1	1104	SR3AM	1114	SR1378-2	1144	SR5A48	2023
SPS4006	2009	SPS4314A	2023	SR1	2007	SR3AM1	1141	SR1378-3	1104	SR5A48A	2023
SPS4007	2023	SPS4330	2023	SR1-2	1104	SR3AM-2	1114	SR1422	1141	SR5D974	1104
SPS4007A	2023	SPS4331	2058	SR1-K2	1104	SR3AM2	1114	SR1493	1104	SR5I1120	1144
SPS4008	2010	SPS4338	2023	SR1A-1	1104	SR3AM-3	1143	SR1549	1104	SR5I80140	1114
SPS4009	2009	SPS4343	2016	SR1A1	1104	SR3AM-4	1114	SR1598	1141	SR5I80180	1114
SPS4013	2023	SPS4344	2009	SR1A-2	1104	SR3AM4	1114	SR1643A	1141	SR5I80640	1114
SPS4013A	2023	SPS4345	2009	SR1A2	1104	SR3AM-6	1144	SR-1668	1104	SR5I80680	1114
SPS4014	2023	SPS4347	2009	SR1A-4	1104	SR3AM6	1144	SR1668	1104	SR5I80810	1143
SPS4014A	2023	SPS4348	2023	SR1A4	110						

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ST-201	2030	ST47025	2010	SV02A	1104	SW4013	2413	SZ-150	564	T1S28	2010
ST-213	2030	ST62180	2023	SV-05	1104	SW4017	2417	SZ150	564	T1XAM05	2007
ST215	2030	STB01-02	1102	SV05	1104	SW4023	2423	SZ200	565	T1X-M14	2014
ST250	2009	STB576	1102	SV-1R	1104	SW4049	2449	SZ200-5	565	T1X-M15	2014
ST251	2009	STBOL-02	1104	SV-3	1102	SWC	1114	SZ-200-8	562	T1XAM15	2010
ST-301	2007	ST-BU208	2055	SV-3B	1102	SWD	1114	SZ-200-8	562	T1X-M16	2014
ST301	2007	STC-1035	2041	SV-3C	1102	SWO.5A	1104	SZ-200-9	562	T1XAM17	2010
ST-302	2007	STC1035	2041	SV-4R	1104	SWT1728	2007	SZ-200-9V	562	T2A(TRANSISTOR)	2060
ST302	2007	STC-1035A	2041	SV-4R	1104	SWT2188	2007	SZ-200-12	563	T2G(DIODE)	1123
ST303	2007	STC1035A	2041	SV-8	1102	SWT3588	2007	SZ200-13	563	T2R	038
ST-304	2007	STC-1036	2041	SV-8R	1114	SX-1.5-01	1143	SZ-200-15	564	T3/2	1104
ST304	2007	STC1036	2041	SV-9	562	SX-1.5-02	1143	SZ-200-15A	564	T3B	007
ST-332	2007	STC-1036A	2041	SV-9(ZENER)	562	SX-1.5-04	1144	SZ671-B	563	T3G	1123
ST332	2007	STC1036A	2041	SV14B	1103	SX55	2009	SZ671-G	563	T7	1123
ST-370	2007	STC1080	2041	SV14C	1103	SX61M	2023	SZ961-B	564	T8/2	1104
ST370	2007	STC1081	2041	SV30	1123	SX61MA	2023	SZA100	1114	T8G	1123
ST382	2007	STC1082	2041	SV-31	1123	SX408	2058	SZ-BZ-120	563	T9	1123
ST403	2009	STC1083	2041	SV-31(DIODE)	1123	SX623	1104	SZC9	562	T9G	1123
ST415	2010	STC1084	2041	SV121	565	SX631	1104	SZ-EQB01-12A	563	T11	1123
ST501	2009	STC-1085	2041	SV122	565	SX633	1104	SZP-9	562	T12	1123
ST502	2009	STC1300	2020	SV135	563	SX641	1104	SZ-RD6.2EB	561	T12-1	1102
ST503	2009	STC1350	2020	SV138	564	SX-442	1104	SZ-RD12EB	563	T12-2	1102
ST504	2009	STC1360	2020	SV-138A	564	SX642	1104	SZ-RD12FB	563	T12A	1102
ST722	2030	STC4252	2041	SV1017	563	SX643	1104	SZT8	563	T12B	1102
ST723	2030	STC4253	2041	SV1020	564	SX644	1104	SZT-9	562	T12C	1102
ST903	2010	STC4254	2041	SV-1020A	564	SX645	1104	SZT9	562	T12G	1123
ST904	2010	STC4255	2041	SV1238	1104	SX780	1102	SZ-UZ-12B	563	T-13	1104
ST904A	2010	STC5202	2027	SV-1238E	1104	SX-990	1123	SZ-WZ-120	563	T13	1123
ST905	2010	STC5203	2027	SV1238E	1104	SX3001	2010	T0003	2007	T-13G	1104
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ST1024	2010	STC8204	2027	SV4012A	563	SX3702A	2023	T0005	2007	T-14	1104
ST1050	2010	STC8303	2027	SV4015	564	SX3709	2009	T-00014	2007	T14	1123
ST1051	2010	STC8802	2027	SV-4015A	564	SX3711	2009	T00014	2007	T-14G	1104
ST-1242	2009	STC8803	2027	SV4015A	564	SX-3825	2010	T0012	2007	T14G	1123
ST1242	2009	STC8805	2027	SV-12388	1104	SX3825	2010	T0014	2007	T16	1102
ST-1243	2009	STC8806	2027	SV12388	1104	SX3826	2058	T0015	2007	T16X19	1123
ST1243	2009	STC8807	2027	SV12388E	1104	SX3827	2010	T0031	2007	T17	1123
ST-1244	2009	STFCN10	1104	SVC625	561	SV-23	1104	T0033	2007	T18	1123
ST1244	2009	ST-HIT-9012H	2023	SVC650	561	SV-24	1104	T0038	2007	T20	1123
ST-1290	2009	STHIT9012H	2023	SVD02Z9.5A	562	SVL-105	2007	T0039	2007	T20G	1123
ST1290	2009	ST-HIT9013H	2009	SVD02Z9.5A	562	SVL105	2007	T0040	2007	T21	1123
ST1334	2010	STHIT9013H	2009	SVD0A70	1123	SVL-106	2007	T0041	2007	T21G	1123
ST1402D	2009	ST-HIT9014C	2009	SVD0A79	1123	SVL106	2007	T0051	2007	T22	1123
ST1402E	2009	ST-HIT9014C	2009	SVD0A90	1123	SVL-107	2007	T0-101	2007	T-22G	1104
ST1502C	2010	ST-HIT9016G	2058	SVD-151717	562	SVL107	2007	T0-102	2007	T22G	1123
ST1502D	2010	STI701	2055	SVD151717	562	SVL107A	2007	T01-013	2009	T-23	2007
ST1502L	2009	ST-LM2152	2009	SVD151850	1104	SVL-108	2007	T01-014	2009	T23	1123
ST1506	2009	ST-LM2682	2030	SVD-151850R	1104	SVL108	2007	T01-022	2030	T-23-71	2041
ST1602D	2023	STM73Q	2023	SVD151850R	1101	SVL108A	2007	T01-023	2023	T23-93	2020
ST1607	2009	ST-MPS4933	2009	SVD10D-1	1104	SVL152	2009	T01-030	2020	T23-94	2030
ST1694	2009	ST-MPS4933T	2009	SVD1282B1P-M	1171	SVL-160	2007	T01-047	2016	T23G	1123
ST1702M	2009	ST-MPS5682J	2023	SVD20A70	1123	SVL160	2007	T01-101	2009	T24G	1123
ST1702N	2009	ST-MPS5700D	2009	SVD20A79	1123	SVL-1182	2009	T01-104	2009	T-26G	1104
ST-2040P	1104	ST-MPS5700E	2009	SVDAS2HB10	1114	SVL1182	2009	T01-105	2009	T26G	1123
ST2040P	1104	ST-MPS5700F	2009	SVDMA26-1	1123	SVL1430	2007	T03323	2007	T27G	1123
ST2110	2010	ST-MPS5750D	2023	SVDMA26-2	1102	SVL1535	2007	T-065	1104	T28G	2007
ST2120	2016	STR101(ELCOM)	1001	SVD0A70	1123	SVL-1583	2007	T065	1104	T-3321	2007
ST2130	2016	STR103(ELCOM)	1001	SVD0A90	1123	SVL1583	2007	T-075	1104	T3321	2007
ST3030	2009	STR201(ELCOM)	1001	SVD51RB10	1171	SVL1583A	2007	T075	1104	T-3323	2007
ST3031	2009	STR202(ELCOM)	1001	SVD5-1S1850	1104	SVL1588	2007	T0101	2007	T3323	2007
ST4150	2030	STR203(ELCOM)	1001	SVDSC20	1123	SVL-1608	2007	T0102	2007	T33A-5	2009
ST4201	2030	STR403(ELCOM)	1000	SVDVD1121	1102	SVL1608	2007	T-0150	1104	T-39	2007
ST4202	2030	STV-3	1104	SVDVD1223	1104	SVL1655	2007	T0150	1104	T39	2007
ST4203	2030	STX0014	2041	SVM61	561	SVL1655A	2007	T-04689	2030	T45	2007
ST4204	2030	STX0027	2041	SVM6021	561	SVL1655	2007	T-112	2023	T-46	2007
ST4341	2030	STX0029	2027	SVM602	561	SVL1665A	2007	T1-1A6	2009	T46	2007
ST5060	2009	STX0030	2027	SVM605	561	SVL-1668	2007	T1-503	2023	T-47	2007
ST5441	2016	STX0032	2041	SVM6010	561	SVL1668	2007	T1-503A	2023	T47	2007
ST6110	2009	STX0033	2007	SVM6011	561	SVL1668A	2007	T1-743	2023	T-48	2007
ST6120	2010	STX0034	2007	SVM6020	561	SVL1690	2007	T1-743A	2023	T48	2007
ST6510	2010	STX0036	2007	SVM6021	561	SVL1697	2007	T1-744	2023	T-50	1104
ST6511	2009	STX0085	2007	SW01	563	SVL1717	2007	T1-744A	2023	T50	2007
ST6512	2009	STX0087	2007	SW-05	1141	SVL2120	2007	T1-752	2023	T59	2007
ST6573	2030	STX0089	2007	SW05	1104	SVL2189	2007	T1-752A	2023	T60	2007
ST6574	2030	STX0090	2007	SW-05-005	1104	SVL2247	2007	T1-906	2023	T61	2007
ST6593	2009	STX0096	2007	SW-05-01	1104	SVL-2248	2007	T1G	1123	T72	2007
ST6594	2009	STX0099	2007	SW05-01	1104	SVL2248	2007	T1J6G	1104	T74	2007
ST6600	2009	STX0104	2007	SW-05-02	1104	SVL2248A	2007	T1P29	2020	T76	2009
ST6601	2030	STX0105	2007	SW05-02	1104	SVL-2249	2007	T1P29X	2020	T77	2007
ST7100	2016	STX0110	2007	SW-05-A	1104	SVL2249	2007	T1P31	2020	T-78	2007
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ST8033	2023	STX0123	2007	SW-05-C	1114	SVL-2250	2007	T1S03	2023	T-82	2007
ST8033A	2023	STX0260	2007	SW-05-D	1114	SVL2250	2007	T1S03A	2023	T82	2007
ST8034	2023	STX0263	2007	SW05A	1104	SVL-2300	2010	T1S04	2023	T83	2007
ST8034A	2023	STX0264	2007	SW05B	1104	SVL2300	2007	T1S04A	2023	T84	2007
ST8035	2023	STX0265	2007	SW05C	1114	SVL2300A	2007	T1S5A	2023	T87	2007
ST8035A	2023	STX0268	2007	SW05D	1114	SVL3460	2009	T1S-18	2058	T-95	2007
ST8036	2023	STX0269	2007	SW05S	1104	SVL3613	2007	T1S18	2058	T95	2007
ST8036A	2023	STX3326	2020	SW05SS	1104	SVL3613A	2007	T1S37A	2023	T-99	2007
ST8045	2023	STX49007	007	SW-05V	1104	SVL-4131	2010	T1S38	2023	T99	2007
ST8045A	2023	ST.082.112.005	2009	SW05V	1104	SVL4131	2010	T1S38A	2023	T-100	1104
ST8181	2023	ST.082.114.015	2009	SW0501	1104	SVL4275	2023	T1S53	2023	T100	2007
ST8182	2023	ST.082.114.016	2016	SW0.5A	1104	SVL4280	2030	T1S53A	2023	T101	2007
ST8190	2023	ST.082.115.015	2023	SW1	1114	SZ4.7	565	T1S54	2023	T102A	2007
ST8500	2023	SUS	564	SW-1-01	1114	SZ5	565	T1S55	2009	T108	2007
ST8500A	2023	SU-31	1123	SW-1-02	1114	SZ5.1	565	T1S58	2062	T-109	2007
ST8509	2023	SU44	2029	SW-1-03	1104	SZ6.2	561	T1S61A	2023	T109	2007
ST8509A	2023	SUC650	561	SW-1-04	1104	SZ6.2A	561	T1S86	2010	T112	2023
ST8700	2023	SUM6010	561	SW-1-06	1104	SZ-9	562	T1S91	2023	T-116	2007
ST8704	2023	SUM6011	561	SW-1-08	1114	SZ9	562	T1S91A	2023	T116	2007
ST8705	2023	SUM6020	561	SW-1-10	1114	SZ9.1	562	T1S93	2023	T-126	2007
ST8709	2023	SUM6021	561	SW-1A	1104	SZ12	563	T1S93A	2023	T126	2007
ST22546-1	1103	SV-01A	1104	SW1C	1114	SZ12.0	563	T1S94	2010	T127	2007
ST27020	202										

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T600	1104	T1450	1104	T2257	2007	T9011HEF	2010	TA1658	2007	TA7804	1104
T611-1	2020	T1454	2007	T2258	2007	T9011H	2010	TA1659	2007	TA7805	1114
T612-1	2020	T1459	2007	T2259	2007	T9011(EF)	2009	TA1659	2007	TA7806	1114
T615A002	2009	T1460	2007	T2260	2007	T9011J	2010	TA1660	2007	TA7996	1104
T615A006-1	2009	T1460	2007	T2261	2007	T9011J(GH)	2009	TA1660	2007	TA8231	2020
T-650	1104	T1461	2007	T2300A	1001	T9016F	2010	TA1662	2007	TA8232	2020
T650	1104	T1474	2007	T2300B	1001	T9016H	2010	TA1662	2007	TA8233	2020
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TE-1014	1123	TE3844	2016	TG25C927(C)	2016	TH55	1104	TI-495	2010	TI474R	2020	TIS98</	

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TIS129	2054	TJ60A	1104	TAM85	1114	TM5021A	563	TNJ-60283	2007	TNT840	2010
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TIS137	2023	TK10	1104	TAM102	2007	TM5414	1067	TNJ-60362	2007	TNT842	2009
TIS412	2010	TK11	1104	TAM102A	2007	TM5452	1067	TNJ-60363	2007	TNT-843	2009
TIS991	2023	TK20	1104	TAM104	1114	TM5454	1067	TNJ-60363	2007	TNT843	2010
TIS992	2009	TK21	1104	TAM105	1114	TM5455	1067	TNJ-60364	2007	TO-003	2007
TIS993	2023	TK-23C	2007	TAM107	2010	TM5800	1141	TNJ-60364	2007	TO-004	2007
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TI-UG-1888	1102	TK25B	2007	TAM112	1124	TMD01	565	TNJ-60447	2010	TO-033	2009
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TIK92	2007	TK30	1104	TAM116	1104	TMD03A	561	TNJ-60450	2007	TO-040	2009
TIK316	2007	TK34C	2007	TAM120	1101	TMD07	562	TNJ-60456	2007	TO-041	2007
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TIK-M07	2007	TK258A	2009	TAM229	2058	TN64	2009	TNJ-61731-1	2010	TP3703	2023
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TIK-M11	2007	TK600	1104	TAM241	2020	TN421	2030	TNJ-61731-1	2010	TP3707	2016
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TIK-M16	2016	TK1228-1004	2007	TAM290	2023	TN3904	2009	TNJ-61731-1	2010	TP4001BN	2401
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TR01042-1	2030	TR-14	2007	TR-95(XSTR)	2016	TR1038-4	2043	TR310123	2007	TRC44	2007
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TR25C384	2010	TR-31	2023	TR383(HGFH-2)	2007	TR8014	2009	TR3227333	2059	TS5	1104
TR-25C482	2030	TR31	2023	TR482	2007	TR8014	2009	TR3227363	2016	TS6	1104
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TR-5R33	2009	TR67	2055	TR802	2007	TR8036	2030	TRA-12R	2007	TS-620	2007
TR-5R35	2009	TR-68	2055	TR803	2007	TR8037	2023	TRA12R	2007	TS-621	2007
TR-5R38	2009	TR68(R)	2055	TR1000-2	2023	TR8038	2010	TRA-22	2007	TS-627	2007
TR55	565	TR-69	2060	TR1000-3	2030	TR8038	2009	TRA-22A	2007	TS-627A	2007
TR-6R26	2007	TR69	2060	TR1000-7	2041	TR8039	2009	TRA22A	2007	TS627A	2007
TR6R26	2007	TR-69(R)	2060	TR1000A	2023	TR8039	2009	TRA-22B	2007	TS627B	2007
TR-6R33	2009	TR70	2058	TR1001	2030	TR8040	2016	TRA22B	2007	TS627B	2007
TR-6R35	2023	TR70	2058	TR1001-2	2061	TR8040	2009	TRA-23	2007	TS-629	2007
TR-6R35A	2023	TR71	2007	TR1003	2030	TR8042	2009	TRA23	2007	TS-630	2007
TR-7R31	2030	TR71(R)	2007	TR1005	2030	TR8042	2010	TRA-23A	2007	TS630	2007
TR-7R35	2009	TR72	2007	TR1007	2041	TR8043	2010	TRA23A	2007	TS649A	2007
TR-75B	563	TR-75	563	TR1011	2009	TR8043	2010	TRA-23B	2007	TS649B	2007
TR-8R35	2009	TR75	563	TR1025	2041	TR8063	2009	TRA23B	2007	TS649C	2007
TR-9GS	562	TR-76(R)	2020	TR1030	2023	TR8065	2023	TRA-24	2007	TS649D	2007
T-R95	562	TR76(R)	2020	TR1030-1	2023	TR8330	2009	TRA24	2007	TS649E	2007
TR-95	562	TR-77	1104	TR1030-1	2023	TR9100	2009	TRA-24A	2007	TS649F	2007
TR95	562	TR77	2007	TR1030-2	2023	TR9100-18	2009	TRA24A	2007	TS-672A	2007
TR-95A	562	TR-77(R)	2027	TR1030-2	2023	TR12001-4	1123	TRA-24B	2007	TS672A	2007
TR-95B	562	TR77(R)	2027	TR1030A	2023	TR14002-6	563	TRA24C	2007	TS-672B	2007
TR95B	562	TR-80	2010	TR1031	2009	TR14002-12	564	TRA-32	2007	TS672B	2007
TR-11	2007	TR80	2010	TR1031-1	2059	TR36643	2030	TRA32	2007	TS-673A	2007
TR11	2007	TR81	2007	TR1031-1	2061	TR38117	2007	TRA-33	2007	TS673A	2007
TR-11C	2007	TR-83	2010	TR1031-2	2059	TR310011	2007	TRA33	2007	TS-673B	2007
TR11C	2007	TR83	2010	TR1031-2	2061	TR310012	2007	TRA-34	2009	TS673B	2007
TR-12	2007	TR-86	2009	TR1032	2023	TR310015	2007	TRA34	2009	TS-739	2007
TR12	2007	TR86	2009	TR1032-1	2023	TR310017	2007	TRA-36	2009	TS-739B	2007
TR-12C	2007	TR-87	2030	TR1032-2	2023	TR310018	2007	TRA36	2009	TS-740	2007
TR12C	2007	TR87	2007	TR1032A	2023	TR310019	2007	TRAPLC711	2009	TS-765	2007
TR12EBM	563	TR88	2007	TR1033	2009	TR310025	2009	TRAPLC871	2009	TS-1007	2007
TR125A	563	TR-93	2055	TR1033-1	2009	TR310026	2007	TRAPLC871A	2009	TS-1193-736	2041
TR-13	2007	TR93	2055	TR1033-2	2009	TR310045	2007	TR-BC147B	2009	TS-1266	2007

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TV52	2030	TV24194	2007	TVM-EH2C	1104	TVS-25C538	2009	TVSCS1255H	2030	TVSS1R8D	1104	TX121	2023
TV-53	2009	TV24200	1104	TVM-EH2C11	1104	TVS25C538	2010	TVS-CS1303	2023	TVSS1R20	1104	TX122	2023
TV53	2030	TV24203	2010	TVM-EH2C11/1	1104	TVS-25C538A	2009	TVS-CS1303A	2023	TVSS1R80	1104	TX-122-1	2023
TV-54	2059	TV24204	2010	TVM-EH2C11/1+12/1	1104	TVS25C538A	2009	TVSD1K	1104	TVSS2-2	1104	TX122-1	2023
TV54	2016	TV24209	2016		1104	TVS-25C562	2016	TVSD52K	1104	TVSS3G4	1114	TX122-1A	2023
TV-55	2059	TV24210	2010	TVM-EH2C12/1	1104	TVS-25C562	2016	TVS-DG-1N-R	1104	TVSS4C	1104	TX-123	2060
TV55	2010	TV24214	2023	TVMHS151B	1104	TVS-25C563	2016	TVSDG1NR	1104	TVS-SB-2C	1114	TX-124	2030
TV-56	2009	TV24214A	2023	TVML00.09D1115	1104	TVS25C563	2016	TVS-DS-1K	1104	TVSS3ARECT	1104	TX124	2030
TV56	2009	TV24215	2009	TVML00.09M1115	1104	TVS-25C563A	2016	TVS-DS1K	1104	TVS-S82	1124	TX124-1	2009
TV-57	2023	TV24216	2009	TVM-M204B	1104	TVS-25C564	2023	TVSDS1K	1104	TVSSA-2	1104	TX125	2023
TV57	2010	TV24221	1114	TVM-M204B	1104	TVS25C564	2023	TVS-DS-1M	1104	TVSSA-2B	1114	TX-128-1	2009
TV57A	2009	TV24222	1104	TVM-PH9D22/1	1104	TVS25C564-3	2023	TVS-DS1M	1104	TVSSA2B	1104	TX128-1	2030
TV-58	2009	TV24224	1104	TVM-PH9D522/11	1104	TVS25C564-O	2023	TVSDS-1M	1104	TVSSA2H	1114	TX-134-1	2023
TV58	2010	TV24225	1114	TVM-PH9D22/1	1104	TVS25C564-O	2023	TVSDS1M	1114	TVSSA71B	2007	TX-134-1A	2023
TV58A	2009	TV24227	2007	TVM-PT6D22/1	1171	TVS25C564R	2023	TVS-DS2K	1104	TVS-SB-20	1104	TX-135	2030
TV-59	2030	TV24230	2007	TVMTCO0921-3	1101	TVS-25C582	2030	TVSDS-2K	1114	TVS-SD-1	1114	TX135	2030
TV59	2030	TV24232	1104	TVM-TC0.2P	1101	TVS-25C582A	2030	TVSDS2K	1114	TVS-SD1A	1104	TX-138	2009
TV59A	2009	TV24232	1104	TVM-TC0.2P11/2	1104	TVS-25C605	2010	TVSDS2M	1104	TVSSD1A	1104	TX138	2030
TV-60	2009	TV24234	1104	TVM-TC0.2P	1101	TVS-25C606	2010	TVSEA01-07R	564	TVS-SD-1B	1114	TX-140	2030
TV60	2010	TV24237	1101	TVM-TC0.2P1	1101	TVS-25C644	2010	TVSEQA01-125	563	TVS-SD1B	1114	TX140	2030
TV60A	2009	TV24237	1101	TVR-06G	1104	TVS25C644	2009	TVSEQB01-12	563	TVSSD-1Y	1104	TX-141	2009
TV-61	2007	TV24239	2007	TVR1G	1104	TVS-25C645	2010	TVSEQB01-15	564	TVSSD-14	1104	TX141	2010
TV-61A	2007	TV24246	1104	TVS010D1	1104	TVS25C645	2010	TVSEQB01-15Z	564	TVS-SD82	1124	TX-145	1067
TV-62	2009	TV24246	1104	TVS-0A70	1123	TVS-25C645A	2010	TVSERB-06B	1104	TVS-SD82A	1124	TXB3518MA	2023
TV62	2060	TV24278	1104	TVS0A70	1123	TVS25C645A	2010	TVSERC0510	1114	TVSSD82A	1124	TV-107-4	2009
TV62(PHILCO)	2060	TV24281	2009	TVS-0A71	1144	TVS-25C645B	2010	TVSEA06	1104	TVSSF-1	1114	TV-107-12	2009
TV-65	2009	TV24282	1104	TVS0A71	1104	TVS25C645B	2009	TVS-ET1P	1104	TVSSID30-15	1114	TZ8-2	562
TV65	2009	TV24283	1104	TVS-0A81	1123	TVS-25C645C	2010	TVS-FR1-PC	1104	TVSSIR80	1104	TZ9-1	562
TV-66	2009	TV24285	1171	TVS-0A82G	1123	TVS25C645C	2010	TVS-FR1M	1104	TVSSN7666N	1759	TZ9-1A	562
TV66	2009	TV24292	1104	TVS-0A90	1123	TVS25C647	2041	TVS-FR-1P	1104	TVSSN76664N	1759	TZ9-1B	562
TV-67	2030	TV24298	1104	TVS0A90	1123	TVS25C647-O	2055	TVSFR1P	1104	TVSSN76665	1759	TZ9-1C	562
TV67	2009	TV24313	2010	TVS-0A91	1123	TVS25C647-P	2055	TVS-FR-1P(FRIP)	1104	TVS-SN76665N	1759	TZ10	2007
TV-68	2009	TV24351	2007	TVS0A91	1123	TVS25C647B	2055	TVS-FR1PC	1104	TVSSN76666N	1759	TZ12	563
TV68	2009	TV24363	2023	TVS-0A95	1123	TVS25C647C	2055	TVSFR1PC	1104	TVS-SPN01	1104	TZ12A	563
TV-70B	2030	TV24363A	2023	TVS1FSD-1	1104	TVS25C647D	2055	TVSFR2-06	1104	TVSSV02	1104	TZ12B	563
TV71	2009	TV24370	2007	TVS-1N82G	1124	TVS25C647E	2055	TVS-FR-2M	1104	TVS-TC009M11/10	1104	TZ12C	563
TV72	2023	TV24372	2009	TVS1N741A	563	TVS25C647Q	2055	TVS-FR2M	1104	TVS-TC009M21/3	1101	TZ15	564
TV-77	2059	TV24378	1144	TVS1N741H	563	TVS25C647R	2055	TVS-FR-2PC	1104	TVS-TC0-09M21/3	1101	TZ-15A	564
TV81	2059	TV24380	2010	TVS1N4002	1104	TVS-25C683	2016	TVS-FR2PC	1114	TVS-TC0.09M11/10	1104	TZ15A	564
TV-84	2009	TV24382	2010	TVS1P20	1104	TVS25C683	2010	TVSFR2PC	1104	TVS-TC-0.09M21/3	1101	TZ-15AB	564
TV84	2009	TV24383	2010	TVS1P80	1114	TVS-25C683V	2016	TVS-FR10	1114	TVS-TC0.09M21/3	1101	TZ15B	564
TV-87	2023	TV24385	2010	TVS-1S18	2010	TVS-25C684	2016	TVS-FR-1N	1114	TVS-TS18	2010	TZ-15BC	564
TV87	2023	TV24387	2010	TVS-1S750	1124	TVS25C684	2009	TVS-FR-1P	1104	TVSUC78M12H2	1771	TZ-15C	564
TV-92	2009	TV-24399	2016	TVS1S750	1124	TVS25C696	2030	TVSFT1P	1104	TVS-UFSD-1	1104	TZ15C	564
TV92	2009	TV24399	2016	TVS1S954	1102	TVS-25C782	2016	TVS-FR10	1114	TVSUFSD-1F	1144	TZ81	2016
TV-93	2023	TV24436	2016	TVS-1S1211	1102	TVS25C762	2010	TVS-FU1N	1104	TVSUFSD1F	1104	TZ82	2016
TV93	2023	TV24437	2016	TVS-1S1850	1104	TVS-25C828	2009	TVSUFU1N	1104	TVSUPC339C	1712	TZ543	2023
TV105	2043	TV24438	2010	TVS1S1850	1104	TVS25C828	2009	TVSUFU1N	1104	TVSW04	1171	TZ551	2023
TV110	2043	TV24453	2009	TVS-1S1893	1141	TVS25C828(Q)	2009	TVSGP2-354	1102	TVSW04M	1171	TZ552	2023
TV-112	2020	TV24454	2009	TVS-1S1906	1104	TVS-25C828A	2009	TVSHFSD-1A	1104	TVSWF2	1104	TZ1153	1102
TV112	2020	TV24458	2009	TVS1S1906	1104	TVS25C828A	2009	TVS-HFSD1Z	1104	TVS-ZB1-15	564	TZ1160	2009
TV-115	2020	TV24495	2023	TVS-1S1922	1141	TVS25C828P	2009	TVS-HF-SD-12	1104	TVS3	1104	TZ1180	2009
TV115	2010	TV24495A	2023	TVS1S1922G	1104	TVS-25C828Q	2009	TVSHFSD12C	1104	TVS5	1104	TZ1182	2009
TV-116	2027	TV24554	1102	TVS1S1926K	1124	TVS25C828Q	2010	TVS-HS7-1	1104	TVW10	1104	TZ7000	2030
TV-117	2020	TV24571	2016	TVS1S1950	1104	TVS25C828R	2009	TVSIS1850	1104	TVW20	1104	TZ7001	2030
TV117	2020	TV24573	2010	TVS1S2076	1102	TVS25C829(B)	2009	TVSJA1200	2009	TVW30	1104	TZ7002	2009
TV-118	2055	TV24574	2010	TVS-25C645A	2009	TVS25C829B	2010	TVSJA141A	1104	TVW38	1114	TZ7003	2009
TV-119	2055	TV24576	2009	TVS-25172F	2007	TVS25C920-QQ	2010	TVSJA141M	1104	TVW40	1104	TZ7500	2023
TV-121	2055	TV24582	1104	TVS-25288A	2010	TVS-25C948	2016	TVS-KC2-1P	1104	TVW50	1104	TZ7501	2023
TV-124	2055	TV24586	1104	TVS-25A71B	2007	TVS25C968	2009	TVS-KC2PC12/1	1104	TVW60	1104	TZ7503	2023
TV124	2055	TV24589	2010	TVS25A71B	2007	TVS25C1255	2030	TVS-KC2DP12/2	1104	TVW-80	1114	TZPDS-1	565
TV-125	2055	TV24599	2007	TVS-25A103	2007	TVS25C1629A	2055	TVS-KC2DP12/1	1104	TVW80	1114	TZPYS-1	565
TV1000	2010	TV24651	1141	TVS-25A171	2007	TVS25C5640	2023	TVSM1-02	1104	TVW-100	1114	U0-5E	1102
TV2403	2010	TV24655	2009	TVS25A171	2007	TVS25D401	2020	TVSMA26	1102	TVW100	1114	U05B	1114
TV2404	2010	TV24684	2009	TVS-25A385	2007	TVS25D964	2030	TVSM15SR	1104	TVWV	1104	U05C	1114
TV2419	1104	TV24803	1104	TVS-25A385A	2007	TVS10D	1104	TVSM15SC	1104	TX1N645	1104	U05E	1114
TV2428	2007	TV24806	2007	TVS-25A385L	2007	TVS10D1(PWR.RECT.)	1104	TVSMR1C	1114	TX1N647	1104	U05ES	1114
TV2429	2007	TV24941	1104	TVS25A483	2027		1104	TVSMR-1M	1114	TX1N3190	1104	U06E	1104
TV2434	2007	TV24942	1114	TVS-25A564	2023	TVS10D2	1104	TVSN76665	1759	TX1N3191	1104	U15102	1104
TV2455	2007	TV24945	2007	TVS25A564	2023	TVS-10D8	1114	TVS-OA70	1123	TX-100-1	2009	U2N34	2007
TV2479	2007	TV24979	1104	TVS25A564-O	2023	TVS10D8	1114	TVS-OA71	1104	TX100-1	2009	U2N34A	2007
TV-2496	1104	TV24984	2007	TVS-25A564A	2023	TVS10DCA	1104	TVS-OA81	1102	TX-100-2	2009	U2N96	2007
TV2496	1104	TV24985	1101	TVS25A564A	2023	TVS10DCAR	1104	TVS-OA90	1123	TX100-2	2009	U2N474A	2009
TV4152	2007	TV24232	1104	TVS25A564C	2023	TVS10E2	1104	TVS-OA90	1123	TX100-3	2009	U2593	2007
TV6060	2030	TV241073	1104	TVS-25A564P	2023	TVS10E4	1104	TVS-OA91	1123	TX-100-4	2030	U25B267	2007
TV24102	2010	TV241074	1104	TVS25A564P	2023	TVS25A103	2007	TVS-OA95	1102	TX100-4	2030	U6A7723393	1740
TV24103	1124	TV241077	2009	TVS25A564PY	2023	TVS25B172	2007	TVS-OV-02	1104	TX-101-9	2030	U7F7065354	1759
TV24103A	1124	TV241078	2009	TVS25A564Q	2023	TVS25C208	2009	TVS-PC02P11/2	1104	TX101-9	2030	U9A7723393	1740
TV24103B	1124	TVC-3	1104	TVS25A607	2023	TVS25C562	2009	TVS-PCD2P11/2	1104	TX-101-12	2009	U9C7065354	1759
TV24103C	1124	TVC3	1101	TVS25A609	2023	TVS25C645	2009	TVSPCD2P11/2	1104	TX101-12	2009	U977741393	007
TV24103D	1124	TVC-6	1101	TVS-25B171	2007	TVS30D1	1114	TVSQA01-07R	564	TX-102-1	2009	U19C	1104
TV-24104	1104	TVC5	1101	TVS25B171A	2007	TVS-82G	1124	TVSQA01-125	563	TX102-1	2009	U119	1114
TV24104	1104	TVCN-11	1759	TVS25B171B	2007	TVS-185D	1						

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U1585H	2009	UP14046-46	2009	USFD-1	1104	V03-E	1114	V330	1141	VHSCR3AMZ8LB1	1020	V5-25C324H	2009
U-2400-03	1104	UP14047-46	2009	USFD-1A	1104	V03C	1114	V331	1143	VHSCR3AMZ8LB1	1020	V525C324H	2009
U2400-03	1104	UPB201C	1801	UT11	1104	V03E	1114	V332	1143	VHSS5142G8LB1E	1020	V5-25C371-R-1	2058
U2408-1	2009	UPB201D	1801	UT12	1143	V03G	1104	V334	1144	VHSSFOR1A411E	1067	V525C371-R-1	2016
U13033801	1104	UPB215C	1801	UT13	1104	V03O	1114	V405	2010	VHSSFOR1A411E	1067	V525C372-Y-1E	2059
UA78M05UC	1770	UPB215D	1801	UT14	1104	V05B	1114	V409	2020	VHV151209-1	1102	V525C373-//1E	2016
UA78M12	1771	UPB219C	1808	UT15	1104	V05E	1104	V410	2023	VL/8RJ	2007	V525C373-//1E	2016
UA78M12CKC	1771	UPB219D	1808	UT-16	1104	V06	1104	V410A	2023	VL18RJ	2007	V525C373-G-1	2016
UA78M12CKD	1771	UPB234C	1822	UT16	1104	V06(DIO)	1104	V415	2010	VM-30209	2009	V525C373G-1	2016
UA78M12UC	1771	UPB234D	1822	UT17	1104	V06(RECT)	1104	V417	2010	VM30209	2009	V525C374-B-1	2016
UA78M15CKC	1772	UPB235D	1802	UT18	1104	V06-C	1104	V435	2010	VM-30241	2009	V525C383-W-1E	2016
UA78M15CKD	1772	UPB2047D	1805	UT21	1104	V04-E	1114	V435A	2023	VM30241	2009	V5-25C385	2007
UA78M15UC	1772	UPB7400C	1801	UT22	1104	V06-G	1114	V-442	1104	VM-30242	2009	V5-25C385L	2007
UA79M05AUC	1773	UPB7404C	1802	UT23	1104	V06A	1104	V442	1104	VM30242	2009	V525C385L	2007
UA224MD	1711	UPB7447C	1805	UT24	1104	V06B	1114	V600	2030	VM-30244	2007	V525C394-0-1	2058
UA324DC	1711	UPC16C	1759	UT25	1104	V06B X4	1104	V653	2061	VM30244	2007	V525C394-0-1	2016
UA324PC	1711	UPC78M05	1770	UT26	1104	V06C	1104	V721	2023	VM-PH9D522/1	1104	V525C394-Y-1	2058
UA339ADC	1712	UPC78M12	1771	UT27	1104	V06C(POWER-RECTIFIER)	1104	V761	2023	VM-PH11D522/1	1104	V5-25C446	2016
UA348DC	1714	UPC78M12H2	1771	UT111	1104	V06E	1104	V763	2023	VMPH11D522-1	1104	V525C454-B-1E	2059
UA555	1723	UPC143-05	1770	UT-112	1104	V06E	1104	V1112	1102	VM-PH9522/1	1104	V525C454-C-1A	2059
UA555TC	1723	UPC177C	1712	UT112	1104	V06G	1114	V-1266	564	VM-TC02P11/2	1104	V525C454-C-1E	2059
UA555PC	1728	UPC324C	1711	UT113	1104	V07E	1104	V3074A20	1104	VM-TC02P11/2	1104	V525C454-C-3A	2059
UA723C(D.I.P.)	1740	UPC339C	1712	UT114	1104	V07G	1104	V3074A21	1104	VO1G	1101	V5-25C-458	2009
UA723CA	1740	UPC741C	087	UT115	1104	V07J	1114	V-8634-3	1124	VO1G(EMERSON)	1101	V5-25C458	2009
UA723CJ	1740	UPC1458C	038	UT116	1104	V08E	1104	V6634-3	1124	VO3-C	1114	V525C458	2009
UA723CN	1740	UPC2002	703	UT117	1104	V08G	1104	V9446-4	1104	VO3-G	1114	V525C458-C-1E	2059
UA723DC	1740	UPC4001C	2401	UT118	1104	V08J	1114	V9646-4	1104	VO-3C	1114	V525C460B-1	2059
UA723HM	1740	UPC4558C	038	UT120	1104	V09-E(CENT.)	1101	V10158	1104	VO3C	1114	V5-25C466	2058
UA723ML	1740	UPC14305H	1770	UT121	1104	V09C	1104	V10916-1	1123	VO3G	1114	V5-25C538	2009
UA723PC	1740	UPC14312	1771	UT122	1104	V09E	1104	V-10916-3	1123	VO-5E	1104	V525C538	2009
UA741CP	067	UPC14312H	1771	UT123	1104	V09G	1104	V10916-3	1123	VO6-C	1104	V5-25C543	2010
UA741CV	067	UPC14315	1772	UT221	1104	V0G	1104	V11189-1	1104	VO6-G	1104	V5-25C545	2010
UA741TC	067	UPC14315D	1772	UT222	1104	V6/2R	2007	V15920	1104	VO-6A	1104	V5-25C645A	2010
UA1458CP	038	UPC14315H	1772	UT223	1104	V6/2RC	2007	V50260-10	1102	VO6A	1144	V525C645A	2009
UA1458CTC	038	UPC4001C	2401	UT224	1104	V6/2RJ	2007	V50260-16	1123	VO-6B	1144	V525C645B	2009
UA1458P	038	UPD4011C	2411	UT225	1104	V6/4R	2007	V50260-36	1102	VO6B	1104	V5-25C645C	2009
UA1458TC	038	UPD4013C	2411	UT226	1104	V6/4RC	2007	VAMV-1	1104	VO-6C	1104	V5-25C683	2016
UA2002	703	UPD4017C	2417	UT227	1104	V6/4RJ	2007	VAR	1102	VO6C	1104	V5-25C683Y	2058
UA2901PC	1712	UPD4023C	2423	UT228	1104	V6/8R	2007	VAR-1R2	1102	VO-6C-401	1144	V5-25C684	2010
UA2902	1711	UPD4049C	2449	UT229	1104	V6/8RJ	2007	VARIST-5	1104	VO9-E	1144	V525C684	2010
UA3065	1759	UPD4066C	2466	UT231	1104	V6/RC	2007	VB-11	1104	VOG	1104	V525C717-//1	2016
UA3065PC	1759	UPD4066G	2466	UT232	1104	V6C	1104	VB11	2007	VR9B	562	V525C732-VIF	2016
UA3301P	1713	UP1706	2009	UT233	1104	V10/1S	2007	VB13	2007	VR9.1	562	V525C732-VIF	2009
UA3301PC	1713	UP1706A	2009	UT-234	1104	V10/1SJ	2007	VB100	1104	VR9.1A	562	V525C733B-1	2016
UA4558T	038	UP1706B	2009	UT234	1143	V10/2S	2007	VB300	1104	VR9.1B	562	V525C735-Y-1	2059
UA7508A	1770	UP1718A	2009	UT235	1144	V10/2SJ	2007	VB-400	1104	VR12	563	V525C735Y-1	2059
UA7805A	1770	UP1956	2030	UT236	1143	V10/15A	2007	VB400	1104	VR12A	563	V5-25C762	2010
UA7805C	1770	UP1301	2007	UT-238	1104	V10/15A18	2007	VB500	1104	VR12B	563	V525C784-RIF	2058
UA7805UC	1770	UP1303	2007	UT242	1143	V10/25	2007	VB-600	1104	VR-14	564	V525C784RIF	2058
UA7812C	1771	UP1305	2007	UT244	1144	V10/25J	2007	VB600	1104	VR15	564	V525C945LK-1	2016
UA7812CKC	1771	UP1307	2007	UT249	1143	V10/30A	2007	VB600A	1104	VR15A	564	V525C945LP-1	2016
UA7812UC	1771	UP1309	2007	UT251	1143	V10/30A18	2007	VBH600	1104	VR15B	564	V525C1172-//1E	2058
UA7815C	1772	UP1347	2007	UT252	1143	V10/50A	2007	VC6E	1104	VS-0A70	1123	V525C1173-Y-3	2020
UA7815CKC	1772	UP1352	2007	UT254	1144	V10/50A18	2007	VD1E1-//1	1104	VS-1	1104	V525C1174-//1E	2058
UA7815UC	1772	UP1353	2007	UT261	1143	V11N	1104	VD6	1104	VS1	1104	V525C1174-1E	2058
UA7815UC	1772	UP1613	2030	UT262	1143	V13/11	2007	VD10E1LF	1104	VS-1N82AG	1124	V525C1213-C-1A	2059
UA7905C	1773	UP1711	2030	UT264	1144	V15/20R	2007	VD10E11F	1104	VS2A71B5	1104	V525C1213AC-1A	2059
UA7905UC	1773	UP12217	2030	UT345	1141	V15C200/80-VF	1104	VD11	1123	VS-25A71	2007	V525C1335D-1	2016
UBFY11	2010	UP12218	2030	UT2005	1141	V15C200/80-VF	1104	VD12	1123	VS-25A71B	2007	V525C1335D-//1E	2016
UC78M12H2	1771	UP12222	2009	UT2010	1143	V17L	1104	VD13	1123	VS2A71B	2007	V525C1335D/1	2016
UC547C	2009	UP12222B	2009	UT2020	1143	V19	1104	VD1150M	1102	VS-25A71B5	2007	V525C1627A	2030
UC1100	2023	UP12222P	2009	UT2040	1144	V19C	1104	VD-121C	1104	VS2A71B5	2007	V525C1627Y	2030
UC1100A	2023	UP14046	2009	UT2080	1114	V19E	1104	VD1127	1102	VS-25A103	2007	V525C1674L-1	2058
UC7933	1771	UP14046-46	2009	UT3005	1141	V50A260-36	1123	VD-S-7-013626-001	1103	VS25A103	2007	V525C1675M-1	2058
UD58	1114	UP14047-46	2009	UT3010	1143	V50A260-36(GE-DIO)	1123	VE18	1173	VS-25A288A	2009	V525C1681G-1E	2016
UES-A56F	220	UP1711	2030	UT3020	1143	V50A260-36(SI-DIO)	1123	VE27	1173	VS-25A358	2007	V525C1841-E-1	2009
UF-01	2007	UP1712	2030	UT3040	1144	V51	1102	VE28	1173	VS-25A378	2007	V525C1855-//1	2010
UF01	1104	UP1713	2030	UZ1-5.1	565	V58	2007	VE47	1173	VS25A378	2007	V525C1890A-1E	2016
UF-2	1104	UP1753	2055	UZ1-6.2	561	V58	2007	VE48	1173	VS-25A379	2007	V525C1890AD-1	2061
UF2	1104	UP1754	2055	UZ1-9.1	562	V58	2007	VFA-2745C	1104	VS25A379	2007	V525C1959Y-1E	2009
UF-SD1	1123	UP1755	2055	UZ1-12	563	V64	1104	VFA2745C	1104	VS-25A385	2007	V525C1983-//1	2020
UFSD-1	1104	UP1805	1104	UZ1-15	564	V74	1123	VFL-2744K	2007	VS25A385	2007	V525C2371K-1E	2061
UFSD-1A	1104	UP1810	1104	UZ5.1	565	V75	2007	VFL2744K	2007	VS-25A385L	2007	V525C2383-//1E	2061
UFSD-1B	1114	UP1815	1104	UZ5.1B	565	V115	1123	VFG-2745F	2007	VS25A495-0-1E	2023	V525C2482-//1	2061
UFSD1F	1104	UP1820	1104	UZ9B	562	V117	1123	VFG2745F	2007	VS25A495-O-1E	2023	V525C2610K-1E	2061
UFSD-18	1114	UP1825	1104	UZ9.1	562	V118	2010	VFS6K	2007	VS25A495-O-1E	2061	V525C16742-1	2058
UG1888	1102	UR205	1141	UZ9.1B	562	V119	2009	VFS-2745	2007	VS25A495-Y-1E	2023	V525D227V-1	2009
UGH7812	1771	UR210	1143	UZ-12B	563	V120	2007	VFS-2745J	2007	VS25A562-0-1E	2023	V525D467-C-1	2059
ULN2165	1759	UR215	1143	UZ13B	563	V120PH	2010	VFT-2745H	2007	VS25A562-0-1E	2023	V525D471-S-1	2059
ULN2165A	1759	UR220	1143	UZ15	564	V120RH	2030	VFT2745H	2007	VS25A562-Y-1E	2023	V525D476-C-1	2020
ULN2165N	1759	UR225	1144	UZ-15C	564	V126	564	VFW2745D	2007	VS25A673-B-1E	2023	V525D478-YL2E	2020
ULN2280A	706	US1555	1102	UZB709	565	V129	2010	VFW-2745D	2007	VS25A673-C-1A	2023	V525D478-YL-ZE	2020
ULN2280B	706	US7051A	565	UZB712	565	V130LA10A	570	VFY-2745E	2007	VS25A673-C-1E	2023	V525D478YL2E	2020
ULN2280N	706	US7120B	563	UZB715	564	V135	1123	VFY2745E	2007	VS25A854-Q-1E	2023	V525D478YL2E	2020
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VSP2745	2007	W4-061	2016	WA-150D	561	WC-120C	563	WE-063B	561	WEP717	2023
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VS-FR-1P	1104	W4-090	562	WB-050B	565	WC-150B	564	WE-065A	561	WEP724	2009
VS-FR1P	1104	W4-092	562	WB-050C	565	WC-150C	564	WE-065B	561	WEP728	2009
VSR1P	1104	W4-094	562	WB-050D	565	WC-150D	564	WE-065C	561	WEP729	2009
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VSPH9D522/1	1104	W8-061	561	WB-061B	561	WD001	1104	WE-090A	562	WEP773	2009
VSS6142GLB1E	1020	W8-063	561	WB-061C	561	WD002	1104	WE-090B	562	WEP784	2016
VSSD1B	1104	W8-065	561	WB-061D	561	WD003	1104	WE-090C	562	WEP828	2058
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VSSD1Z	1104	W8-090	562	WB-063A	561	WD005	1104	WE-092	562	WEP838	2009
VS-SD-13	1114	W8-092	562	WB-063B	561	WD006	1104	WE-092A	562	WEP906	2009
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VZ-145D	564	WA-052	565	WB-150B	564	WD-088B	562	WEP134	1123	WEP7408	1822
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WH-092A	562	WJ-090A	562	WL-088B	562	WN-065D	561	WP-063	561	WR-050B	565
WH-092B	562	WJ-090B	562	WL-088C	562	WN-088	562	WP-063A	561	WR-050C	565
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WH-120D	563	WJ-094D	562	WL-094	562	WN-092B	562	WP-088C	562	WR-063	561
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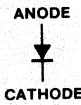
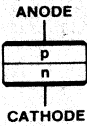
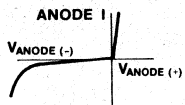

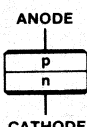
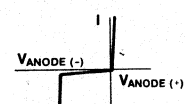
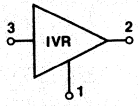
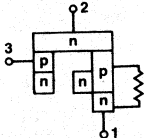
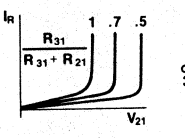

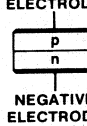
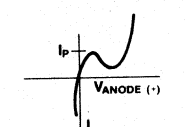

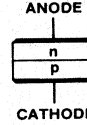
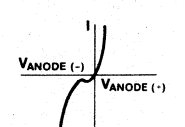

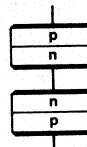
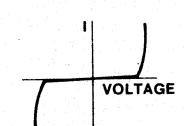
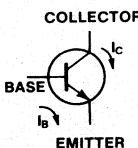
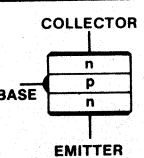
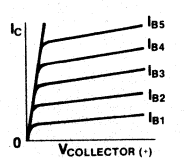
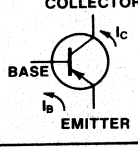
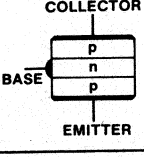
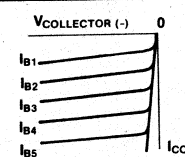
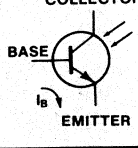
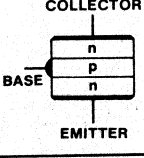
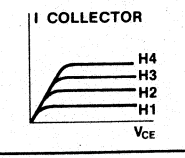
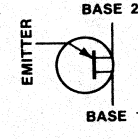
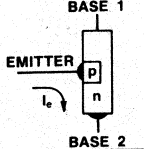
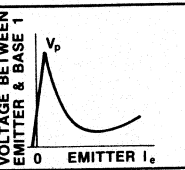
ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
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WU-050C	565	WV-120C	563	WX-094D	563	X10G1829	2009	XB476	2020		
WU-050D	565	WV-120D	563	WX6	1123	X16	1123	XC101	2007	Y56601-93	2030
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WU-063C	561	WV-061D	561	WX-050D	565	X32C6105	2009	XG3	2007	Y133101440	1104
WU-063D	561	WV-063	561	WX-052	565	X32D5422	2009	XG5	2007	YAD004	1104
WU-065	561	WV-063A	561	WX-052A	565	X32M5026	2009	XG8	2007	YAD007	1104
WU065A	561	WV-063B	561	WX-052B	565	X32P5660	2010	XG10	2007	YAD009	1123
WU-065B	561	WV-063C	561	WX-052C	565	X34E1226	2023	XG11	2007	YAD018	1102
WU-065C	561	WV-063D	561	WX-052D	565	X34E2111	2009	XG12	2007	YAD019	1104
WU-065D	561	WV-065	561	WX-061	561	X42	2007	XG24	2007	YAD020	1104
WU-088	562	WV-065A	561	WX-061A	561	X44C358	2020	XG30	2009	YAD022	1104
WU-088A	562	WV-065B	561	WX-061B	561	X45C359	2027	XI-548	2041	YB4D007	1104
WU-088B	562	WV-065C	561	WX-061C	561	X45C-H06	2007	XJ13	2007	YD02P11/2	1114
WU-088C	562	WV-065D	561	WX-061D	561	X72A42416	1102	XJ13-1	2007	YD1121	1102
WU-088D	562	WV-088	562	WX-063	561	X-78	2007	XJ71	2007	YEAD015	562
WU-090	562	WV-088A	562	WX-063A	561	X78	2007	XJ72	2007	YEAD030	1104
WU-090A	562	WV-088B	562	WX-063B	561	X194-3005829A	2041	XJ73	2007	YEAD032	1123
WU-090B	562	WV-088C	562	WX-063C	561	X300-1300A	2030	XN-400-318-P1	2009	YEADIN60P	1123
WU-090C	562	WV-088D	562	WX-063D	561	X735-40C	2020	XN-400-319-P2	2023	YEADAW01-06	561
WU-090D	562	WV-090	562	WX-065	561	X735-41	2009	XS1	2010	YEAMLM2900N	1713
WU-092	562	WV-090A	562	WX-065A	561	X4604	1104	XS2	2010	YEAN25C941	2009
WU-092A	562	WV-090B	562	WX-065B	561	X6584-C	2009	XS3	2010	YR-011	1104
WU-092B	562	WV-090C	562	WX-065C	561	X19001-A	2009	XS4	2010	YR011	1104
WU-092C	562	WV-090D	562	WX-065D	561	X19001-B	2030	XS6	2010	Y56-V139-2-2	1123
WU-092D	562	WV-092	562	WX-088	562	X19001-C	2030	XS9.1B	562	Y5G-20024	1104
WU-094	562	WV-092A	562	WX-088A	562	X19001-D	2016	XS-10	1104	Y5G-V47-1-3	1104
WU-094A	562	WV-092B	562	WX-088B	562	X-19031-A	1103	XS10	1104	Y5G-V47-7-51	1101
WU-094B	562	WV-092C	562	WX-088C	562	X-23305-3	1144	XS14	2010	Y5G-V47-7-51-1	1104
WU-094C	562	WV-092D	562	WX-088D	562	X-23305-4	1144	XS15	2010	Y5G-V47-7-51-2	1104
WU-094D	562	WV-094	562	WX-090	562	X330302	563	XS16	1104	Y5G-V139-2-2	1123
WU-20B	563	WV-094A	562	WX-090A	562	X925940-501B	1102	XS16A	1104	Y5G-V139-22	1123
WU-120	563	WV-094B	562	WX-090B	562	X925940-501B	1102	XS17	1104	YV1	2007
WU-120A	563	WV-094C	562	WX-090C	562	X1022220-1	1102	XS17A	1104	YV1A	2007
WU-120C	563	WV-094D	562	WX-090D	562	XA101	2007	XS18	1104	YV2	2007
WU-120D	563	WV-115	563	WX-092	562	XA102	2007	XS19	2023	Z-00	1101
WU-125	563	WV-115A	563	WX-092A	562	XA103	2007	XS21	2009	Z-012	563
WU-125A	563	WV-115B	563	WX-092B	562	XA104	2007	XS22	2009	Z-012A	563
WU-125B	563	WV-115C	563	WX-092C	562	XA111	2007	XS22(RECT.)	1104	Z-012B	563
WU-125C	563	WV-115D	563	WX-092D	562	XA112	2007	XS23	1104	Z0211	565
WU-125D	563	WV-120	563	WX-094	562	XA121	1104	XS23A	1104	Z0214	561
WU-150	564	WV-120A	563	WX-094A	562	XA122	2007	XS30	2030	Z0219	562
WU-150A	564	WV-120B	563	WX-094B	562	XA123	2007	XS-31	1104	Z0222	563
WU-150B	564	WV-120C	563	WX-094C	562	XA124	2007	XS31	1104	Z0225	564
WU-150C	564	WV-120D	563	WX-094D	562	XA126	2007	XS36	2016	Z0406	565
WU-150D	564	WV-150	564	WX-120	563	XA131	2007	XS37	2016	Z0408	561
WV-050	565	WV-150A	564	WX-120A	563	XA141	2007	XS38	2016	Z0412	562
WV-050A	565	WV-150B	564	WX-120B	563	XA142	2007	XS39	2016	Z0415	563
WV-050B	565	WV-150C	564	WX-120C	563	XA143	2007	XS40	2010	Z0418	564
WV-050C	565	WV-150D	564	WX-120D	563	XA161	2007	XS40A	1104	Z085.1	565
WV-050D	565	WX-050	565	WX-150A	564	XA494	2023	XT15X3	2010	Z089.1	562
WV-052	565	WX-050A	565	WX-150B	564	XA495	2023	XT300	2007	Z08-12	563
WV-052A	565	WX-050B	565	WX-150C	564	XA495(C)	2023	XT400	2007	Z0812	563
WV-052B	565	WX-050C	565	WX-150D	564	XA495AC	2023	XT-548A	2041	Z08-15	564
WV-052C	565	WX-050D	565	WX-150E	564	XA495C	2023	XU60A	1104	Z0815	564
WV-052D	565	WX-052	565	WX-050	565	XA101B	2030	XV60A	1114	Z0C4.7	565
WV-061	561	WX-052A	565	WX-050A	565	XA-1071	2009	XZ-049	565	Z0C5.1	565
WV-061A	561	WX-052B	565	WX-050B	565	XA-1072	2023	XZ-051	565	Z0C6.2	561
WV-061B	561	WX-052C	565	WX-050C	565	XA-1078	2041	XZ051	565	Z0C9.1	562
WV-061C	561	WX-052D	565	WX-050D	565	XA-1095	2030	XZ-090	562	Z0C12	563
WV-061D	561	WX-061	561	WX-052A	565	XA-1137	2009	XZ090	562	Z0C-15	564
WV-063	561	WX-061A	561	WX-061B	561	XA-1140	2023	XZ092	562	Z0C15	564
WV-063A	561	WX-061B	561	WX-061C	561	XA-1160	2020	XZ094	562	Z0D4.7	565
WV-063B	561	WX-061D	561	WX-061E	561	XA-1161	2041	XZ-122	564	Z0D5.1	565
WV-063C	561	WX-061D	561	WX-061E	561	XA-1164	2023	XZ-152	2023	Z0D6.2	561
WV-063D	561	WX-063	561	WX-063A	561	XAA104	1801	Y0-6A	1104	Z0D9.1	562
WV-065	561	WX-063A	561	WX-063B	561	XAA109	1808	Y100	2007	Z0D12	563
WV-065A	561	WX-063C	561	WX-063D	561	XB1	2007	Y363	2007	Z0D-15	564
WV-065B	561	WX-063C	561	WX-063D	561	WB1A	2007	Y29979	2010	Z0D15	564
WV-065C	561	WX-063D	561	WX-063E	561	XB2	2007	Y49001-21	2009	Z1A103-018	1114
WV-065D	561	WX-065	5								

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DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-	DEVICE	276-
ZA-15B	544	ZEN110	2009	ZM15	564	ZS15	564	ZT15B	564	ZT153	2023
ZA15B	564	ZEN111	2009	ZM15A	564	ZS-15A	564	ZT20	2009	ZT153A	2023
ZA15V	564	ZEN112	2009	ZM15B	564	ZS15A	564	ZT20-1	2009	ZT154	2023
ZA150	1171	ZEN113	2009	ZM2205	565	ZS-15B	564	ZT20-12	2009	ZT154A	2023
ZA29312	1103	ZEN114	2009	ZM7400F	1801	ZS15B	564	ZT20-55	2009	ZT180	2023
ZA100962E	2010	ZEN115	2009	ZN7400F	1801	ZS-20A	1104	ZT20A	2009	ZT180A	2023
ZA105604	2007	ZEN116	2016	ZN7401F	1801	ZS20A	1104	ZT20B	2009	ZT181	2023
ZAG-9673	2023	ZEN117	2058	ZN7401F	1801	ZS-20B	1104	ZT20C	2009	ZT181A	2023
ZB1-09	562	ZEN118	2010	ZN7404E	1802	ZS20B	1104	ZT21	2009	ZT182	2023
ZB1-9	562	ZEN119	2009	ZN7408E	1822	ZS-21	1104	ZT21-1	2009	ZT182A	2023
ZB1-9V	562	ZEN120	2009	ZN7408J	1822	ZS21	1104	ZT21-12	2009	ZT183	2023
ZB1-9.5	562	ZEN121	2058	ZN7490E	1808	ZS22	1104	ZT21-55	2009	ZT183A	2023
ZB1-10	563	ZEN122	2023	ZN7490F	1808	ZS-23	1104	ZT21A	2009	ZT184	2023
ZB1-12	563	ZEN125	2061	ZO-12	563	ZS23	1104	ZT21B	2009	ZT184A	2023
ZB1-15	564	ZEN126	2009	ZO-12A	563	ZS-24	1104	ZT21C	2009	ZT187	2023
ZB4.7	565	ZEN127	2009	ZO-12B	563	ZS24	1104	ZT22	2009	ZT187A	2023
ZB5.1	565	ZEN128	2060	ZO-15	564	ZS-25	1104	ZT22-1	2009	ZT189	2023
ZB6.2	561	ZEN129	2029	ZO-15A	564	ZS25	1104	ZT22-12	2009	ZT190	2030
ZB6.2A	561	ZEN206	2055	ZO-15AC	564	ZS30	1104	ZT22-55	2009	ZT191	2030
ZB6.2B	561	ZEN300	2007	ZO-15B	564	ZS-30A	1104	ZT22A	2009	ZT192	2030
ZB9.1	562	ZEN301	2007	ZO-15BY	564	ZS30A	1104	ZT22B	2009	ZT193	2030
ZB9.1A	562	ZEN303	2007	ZOB5.1	565	ZS-30B	1104	ZT22C	2009	ZT202	2009
ZB9.1B	562	ZEN306	2007	ZOB6.2	561	ZS30B	1104	ZT23	2009	ZT203	2009
ZB12	563	ZEN309	2007	ZOB12	563	ZS31	1104	ZT23-1	2009	ZT204	2009
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ZB12B	563	ZEN311	2007	ZOB15	564	ZS31A	1104	ZT23A	2009	ZT280A	2023
ZB13A	564	ZEN312	2007	ZOD6.2	561	ZS-31B	1104	ZT23B	2009	ZT281	2023
ZB15	564	ZEN313	2007	ZOD-15	564	ZS31B	1104	ZT23C	2009	ZT281A	2023
ZB15A	564	ZEN314	2007	ZOD15	564	ZS32	1104	ZT24	2009	ZT282	2023
ZB15B	564	ZEN430	1123	ZP5.1	565	ZS-32A	1104	ZT24-1	2009	ZT282A	2023
ZB-31.12	563	ZEN431	1124	ZP6.2	561	ZS32A	1104	ZT24-12	2009	ZT283	2023
ZB206	561	ZEN502	563	ZP9.1	562	ZS-32B	1104	ZT24-55	2009	ZT283A	2023
ZB212	563	ZEN508	564	ZP9.1A	562	ZS32B	1104	ZT24A	2009	ZT284	2023
ZB1-09	562	ZEN605	1789	ZP9.1B	562	ZS-33A	1104	ZT24B	2009	ZT284A	2023
ZB1-14	564	ZENER-122	563	ZP12	563	ZS-33B	1104	ZT24C	2009	ZT287	2023
ZC012	563	ZF5.1	565	ZP12A	563	ZS34	1104	ZT40	2009	ZT287A	2023
ZC-015	564	ZF6.2	561	ZP12B	563	ZS-34A	1104	ZT41	2009	ZT323.55	2023
ZC015	564	ZF9.1	562	ZP-15	564	ZS34A	1104	ZT42	2009	ZT402	2009
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ZC25A70	2007	ZF12B	563	ZP15A	564	ZS40	1102	ZT90	2009	ZT406	2009
ZC25A71	2007	ZF-15	564	ZP-15B	564	ZS-50	1104	ZT60	2009	ZT696	2009
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ZC25A101	2007	ZF-15A	564	ZPD6.2	561	ZS51	1104	ZT60-12	2009	ZT706	2009
ZC25A101BA	2007	ZF15A	564	ZQ9.1	562	ZS-52	1104	ZT60-55	2009	ZT706A	2009
ZC25A102	2007	ZF-15B	564	ZQ9.1A	562	ZS52	1104	ZT60A	2009	ZT708	2009
ZC25A102CA	2007	ZF15B	564	ZQ9.1B	562	ZS-53	1104	ZT60B	2009	ZT709	2010
ZC25A103	2007	ZF15.1R	565	ZQ12	563	ZS53	1104	ZT60C	2009	ZT717	2010
ZC25A103CA	2007	ZF-16	564	ZQ12A	563	ZS70	1104	ZT61	2009	ZT718	2010
ZC25A377	2007	ZF16.2	561	ZQ12B	563	ZS-71	1104	ZT61-1	2009	ZT730	2016
ZC25A700A	2007	ZF19.1	562	ZQ-15	564	ZS71	1104	ZT61-12	2009	ZT1420	2009
ZC25A700B	2007	ZF25.1R	565	ZQ15	564	ZS72	1104	ZT61-55	2009	ZT1479	2030
ZC106	561	ZF26.2	561	ZQ-15A	564	ZS-73	1104	ZT61A	2009	ZT1481	2030
ZC112	563	ZF29.1	562	ZQ15A	564	ZS73	1104	ZT61B	2009	ZT1483	2020
ZC115	564	ZF112	563	ZQ-15B	564	ZS74	1104	ZT61C	2009	ZT1484	2020
ZC-140	2020	ZF115	564	ZQ15B	564	ZS74B	1104	ZT-62	2009	ZT1485	2020
ZC-140(TRANS)	2020	ZF212	563	ZQ15X	564	ZS76	1104	ZT62-1	2009	ZT1486	2020
ZC012	563	ZF215	564	ZR10	1141	ZS78	1114	ZT62-12	2009	ZT1487	2041
ZCOM3679	1104	ZG4.7	565	ZR-10B	1104	ZS78A	1114	ZT62-15	2009	ZT1488	2041
ZCOM-5683-0	1104	ZG9.1	562	ZR11	1143	ZS78B	1114	ZT62C	2009	ZT1489	2041
ZD012	563	ZG12	563	ZR12	1143	ZS90	1104	ZT63	2009	ZT1490	2041
ZD-015	564	ZG-15	564	ZR13	1144	ZS91	1104	ZT63-1	2009	ZT1613	2030
ZD015	564	ZG15	564	ZR14	1144	ZS92	1104	ZT63-12	2009	ZT1700	2030
ZD5.1A	565	ZG15A	564	ZR15	1104	ZS94	1104	ZT63-55	2009	ZT1701	2020
ZD6.2A	561	ZG-15B	564	ZR50B793-1	563	ZS100	1104	ZT63A	2009	ZT1702	2041
ZD6.2B	561	ZG15B	564	ZR50B921-3	564	ZS101	1104	ZT63B	2009	ZT1708	2009
ZD9.1A	562	ZG100119	564	ZR60	1104	ZS102	1104	ZT63C	2009	ZT1711	2030
ZD9.1B	562	ZH9.1	562	ZR-61	1104	ZS103	1104	ZT64	2009	ZT2102	2030
ZD12A	563	ZH9.1A	562	ZR61	1104	ZS104	1104	ZT64-1	2009	ZT2205	2009
ZD12B	563	ZH9.1B	562	ZR62	1104	ZS108	1104	ZT64-5	2009	ZT2206	2009
ZD-15	564	ZH12	563	ZR-63	1104	ZS120	1104	ZT64-12	2009	ZT2270	2030
ZD-15A	564	ZH12A	563	ZR63	1104	ZS121	1104	ZT64-55	2009	ZT2368	2009
ZD15A	564	ZH12B	563	ZR64	1104	ZS122	1104	ZT64A	2009	ZT2369	2009
ZD-15B	564	ZH-15	564	ZR66	1104	ZS123	1104	ZT64B	2009	ZT2369A	2009
ZD15B	564	ZH15	564	ZR68	1114	ZS124	1104	ZT64C	2009	ZT2475	2010
ZD51A	565	ZH-15A	564	ZR212	563	ZS142	1102	ZT66	2009	ZT2476	2009
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ZDT11	2010	ZH15B	564	ZR-590	1104	ZS174B	1104	ZT66C	2030	ZT2857	2010
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ZDT30	2010	ZJ12A	563	ZR601	1143	ZS274	1144	ZT-82	2009	ZT3512	2030
ZDT31	2010	ZJ12B	563	ZR602	1143	ZS278	1114	ZT82(TRANSISTOR)	2009	ZT3600	2010
ZDT31	2010	ZJ-15	564	ZR604	1144	ZS701	1143	ZT83	2009	ZT3844	2030
ZE-1.5	1123	ZJ15	564	ZR608	1114	ZS702	1143	ZT84	2009	ZTR-1N60	1123
ZE9.1	562	ZJ-15A	564	ZR-1025	1104	ZSA49	2007	ZT86	2030	ZTR-B54	2007
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ZE12A	563	ZJ-15B	564	ZR-1031	1104	ZS8439	2007	ZT88	2030	ZTR-FOR2B	1067
ZE12B	563	ZJ15B	564	ZR1031	1104	ZSC535B	2010	ZT89	2009	ZTR-FOR2B	1067
ZE-15	564	ZJ40	2010	ZR-1035	1104	ZSD235Y	2020	ZT90	2030	ZTR-W06B	1104
ZE15	564	ZJ72	2007	ZR1035	1104	ZT06	2016	ZT93	2030	ZTR-W06C	1104
ZE-15A	564	ZJ73	2007	ZR-1076	1104	ZT6.2	561	ZT94	2030	ZTR-WO6B	1104
ZE15A	564	ZJ252B	1104	ZR1076	1104	ZT6.2A	561	ZT-110	2009	ZTX31U	2010
ZE-15B	564	ZM5.1	565	ZS4F	1102	ZT6.2B	561	ZT111	2009	ZTX107	2009
ZE15B	564	ZM5.1A	565	ZS7	1104	ZT9.1	562	ZT112	2009	ZTX108	2009
ZEC12	563	ZM5.1B	565	ZS8	1104	ZT9.1A	562	ZT113	2009	ZTX109	2009
ZEN100	2009	ZM6.2	561	ZS9.1	562	ZT9.1B	562	ZT114	2009	ZTX300	2009
ZEN102	2009	ZM6.2A	561	ZS9.1A	562	ZT12	563	ZT116	2009	ZTX301	2009
ZEN103	2009	ZM6.2B	561	ZS9.1B	562	ZT12A	563	ZT117	2009	ZTX302	2009
ZEN104	2010	ZM9.1	562	ZS10A	1104	ZT12B	563	ZT118	2009	ZTX303	2009
ZEN105	2016	ZM9.1A	562	ZS-10B	1104	ZT-15	564	ZT119	2009	ZTX304	2009
ZEN106	2023	ZM9.1B	562	ZS10B	1104	ZT15	564	ZT131	2023	ZTX310	2009
ZEN107	2023	ZM12	563	ZS12	563	ZT-15A	564	ZT131A	2023	ZTX311	2009
ZEN108	2010	ZM12A	563	ZS12A	563	ZT15A	564	ZT182	2023	ZTX312	2009
ZEN109	2010	ZM12B	563	ZS12B	563	ZT-15B	564	ZT152A	2023	ZTX320	2010

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:	
Diode or Rectifier				Conducts easily in one direction, blocks in the other	1500 Amps 3000 Volts	Rectification Blocking Detecting Steering	Check valve Diode tube Gas diode
Avalanche (Zener) Diode				Constant voltage characteristic in negative quadrant	22 Volts 1 Watt	Regulation Reference Clipping	V-R tube
Integrated Voltage Regulator (IVR)				Programmed to desired V ₂₁ by two resistors	40 Volts 100 mA 0.4 Watts	Shunt voltage regulator Reference element Error modifier Level sensing Level shifting	Avalanche Diode
Tunnel Diode				Displays negative resistance when current exceeds peak point current	Peak point current = 100 mA Resistive cutoff freq. = 40 Gc	UHF converter Logic circuits Microwave circuits Level sensing	None
Back Diode				Similar characteristics to conventional diode except very low forward voltage drop	5 mA 400 mV	Microwave mixers and low power oscillators	None
Thyrector				Rapidly increasing current above rated voltage in either direction	70 A peak pulse (2" Sq. cell)	Transient voltage suppression and arc suppression	Thyrite Two avalanche diodes in inverse-series connection
n-p-n Transistor				Constant collector current for given base drive	300 Volts 25 Watts	Amplification Switching Oscillation	Pentode Tube
p-n-p Transistor				Complement to n-p-n transistor	75 Volts 25 Watts	Amplification Switching Oscillation	None
Photo Transistor				Incident light acts as base current of the photo transistor	45 Volts 0.25 Amps 0.6 Watts	Tape readers Card readers Position sensor Tachometers	None
Unijunction Transistor (UJT)				Unijunction emitter blocks until its voltage reaches V _p ; then conducts	35 Volts 0.450 Watts	Interval timing Oscillation Level Detector SCR Trigger	None

MAJOR SEMICONDUCTOR COMPONENTS

NAME OF DEVICE	CIRCUIT SYMBOL	COMMONLY USED JUNCTION SCHEMATIC	ELECTRICAL CHARACTERISTICS	MAX RATINGS AVAILABLE	MAJOR APPLICATIONS	ROUGHLY ANALOGOUS TO:
Complementary Unijunction Transistor (CUJT)				30 Volts 0.30 Watts 0.15 Amps	High stability timers Oscillators and level detectors	None
Programmable Unijunction Transistor (PUT)				40 Volts 0.30 Watts 0.15 Amps	Low cost timers and oscillators Long period timers SCR trigger Level detector	UJT
Silicon Controlled Rectifier (SCR)				1000 Amps 1800 Volts	Power switching Phase control Inverters Choppers	Gas thyatron or ignitron
Complementary Silicon Controlled Rectifier (CSCR)				50 Volts 0.25 Amps 0.45 Watts	Ring counters Low speed logic Lamp driver	None
Light Activated SCR* (LASCR)				1.6 Amps 200 Volts	Relay Replacement Position controls Photoelectric applications Slave flashes	None
Silicon Controlled Switch* (SCS)				100 Volts 200 mA	Logic applications Counters Nixie drivers Lamp drivers	Complementary transistor pair
Silicon Unilateral Switch (SUS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters SCR Trigger Oscillator	Shockley or 4-layer diode
Silicon Bilateral Switch (SBS)				0.350 Watts 0.200 Amps 10 Volts	Switching Circuits Counters TRIAC Phase Control	Two inverse Shockley diodes
Triac				25 Amps 500 Volts	AC switching Phase control Relay replacement	Two SCR's in inverse parallel
Diac Trigger				40 Volts 2 Amps peak	Triac and SCR trigger Oscillator	Neon lamp

*Light Activated SCS also available.

GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

A, a —Anode	G_{pc} —Common-collector small-signal insertion power gain
B, b —Base	G_{PE} —Common-emitter large-signal insertion power gain
b_{fs} —Common-source small-signal forward transfer susceptance	G_{pe} —Common-emitter small-signal insertion power gain
b_{is} —Common-source small-signal input susceptance	G_{pg} —Common-gate small-signal insertion power gain
b_{os} —Common-source small-signal output susceptance	G_{ps} —Common-source small-signal insertion power gain
b_{rs} —Common-source small-signal reverse transfer susceptance	g_{rs} —Common-source small-signal reverse transfer conductance
C, c —Collector	G_{TB} —Common-base large-signal transducer power gain
C_{cb} —Collector-base interterminal capacitance	G_{tb} —Common-base small-signal transducer power gain
C_{ce} —Collector-emitter interterminal capacitance	G_{TC} —Common-collector large-signal transducer power gain
C_{ds} —Drain-source capacitance	G_{tc} —Common-collector small-signal transducer power gain
C_{du} —Drain-substrate capacitance	G_{TE} —Common-emitter large-signal transducer power gain
C_{eb} —Emitter-base interterminal capacitance	G_{te} —Common-emitter small-signal transducer power gain
C_{ibo} —Common-base open-circuit input capacitance	G_{ig} —Common-gate small-signal transducer power gain
C_{ibs} —Common-base short-circuit input capacitance	G_{is} —Common-source small-signal transducer power gain
C_{ieo} —Common-emitter open-circuit input capacitance	h_{FB} —Common-base static forward current transfer ratio
C_{ies} —Common-emitter short-circuit input capacitance	h_{fb} —Common-base small-signal short-circuit forward current transfer ratio
C_{iss} —Common-source short-circuit input capacitance	h_{FC} —Common-collector static forward current transfer ratio
C_{obo} —Common-base open-circuit output capacitance	h_{fc} —Common-collector small-signal short-circuit forward current transfer ratio
C_{obs} —Common-base short-circuit output capacitance	h_{FE} —Common-emitter static forward current transfer ratio
C_{oeo} —Common-emitter open-circuit output capacitance	h_{fe} —Common-emitter small-signal short-circuit forward current transfer ratio
C_{oes} —Common-emitter short-circuit output capacitance	h_{FEL} —Inherent large-signal forward current transfer ratio
C_{oss} —Common-source short-circuit output capacitance	h_{IB} —Common-base static input resistance
C_{rbs} —Common-base short-circuit reverse transfer capacitance	h_{ib} —Common-base small-signal short-circuit input impedance
C_{rcs} —Common-collector short-circuit reverse transfer capacitance	h_{IC} —Common-collector static input resistance
C_{res} —Common-emitter short-circuit reverse transfer capacitance	h_{ic} —Common-collector small-signal short-circuit input impedance
C_{rss} —Common-source short-circuit reverse transfer capacitance	h_{IE} —Common-emitter static input resistance
C_{tc} —Collector depletion-layer capacitance	h_{ie} —Common-emitter small-signal short-circuit input impedance
C_{te} —Emitter depletion-layer capacitance	h_{ie(imag)} —Imaginary part of common-emitter small-signal short-circuit input impedance
D, d —Drain	h_{ie(real)} —Real part of common-emitter small-signal short-circuit input impedance
E, e —Emitter	h_{ob} —Common-base small-signal open-circuit output admittance
η —Intrinsic standoff ratio	h_{oc} —Common-collector small-signal open-circuit output admittance
f_{hfb} —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe} —Common-emitter small-signal open-circuit output admittance
f_{hfc} —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency	h_{oe(imag)} —Imaginary part of common-emitter small-signal open-circuit output admittance
f_{hfe} —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency	
f_{max} —Maximum frequency of oscillation	
F_T —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)	
G, g —Gate	
g_{fs} —Common-source small-signal forward transfer conductance	
g_{is} —Common-source small-signal input conductance	
g_{MB} —Common-base static transconductance	
g_{MC} —Common-collector static transconductance	
g_{ME} —Common-emitter static transconductance	
g_{os} —Common-source small-signal output conductance	
G_{PB} —Common-base large-signal insertion power gain	
G_{pb} —Common-base small-signal insertion power gain	
G_{PC} —Common-collector large-signal insertion power gain	

$h_{oe(\text{real})}$ — Real part of common-emitter small-signal open-circuit output admittance
 h_{rb} — Common-base small-signal open-circuit reverse voltage transfer ratio
 h_{rc} — Common-collector small-signal open-circuit reverse voltage transfer ratio
 h_{re} — Common-emitter small-signal open-circuit reverse voltage transfer ratio
 I_B — Base-terminal dc current
 I_b — Alternating component (rms value) of base-terminal current
 i_B — Instantaneous total value of base-terminal current
 I_{BEV} — Base cutoff current, dc
 $I_{B2(\text{mod})}$ — Interbase modulated current
 I_C — Collector-terminal dc current
 I_c — Alternating component (rms value) of collector-terminal current
 i_C — Instantaneous total value of collector-terminal current
 I_{CBO} — Collector cutoff current (dc), emitter open
 I_{CEO} — Collector cutoff current (dc), base open
 I_{CER} — Collector cutoff current (dc), specified resistance between base and emitter
 I_{CES} — Collector cutoff current (dc), base shorted to emitter
 I_{CEV} — Collector cutoff current (dc), specified voltage between base and emitter
 I_{CEX} — Collector cutoff current (dc), specified circuit between base and emitter
 I_D — Drain current, dc
 $I_{D(\text{off})}$ — Drain cutoff current
 $I_{D(\text{on})}$ — On-state drain current
 I_{DSS} — Zero-gate-voltage drain current
 I_E — Emitter-terminal dc current
 I_e — Alternating component (rms value) of emitter-terminal current
 i_E — Instantaneous total value of emitter-terminal current
 I_{EBO} — Emitter cutoff current (dc), collector open
 I_{EB20} — Emitter reverse current
 $I_{EC(\text{ofs})}$ — Emitter-collector offset current
 I_{ECS} — Emitter cutoff current (dc), base short-circuited to collector
 $I_{E1E2(\text{off})}$ — Emitter cutoff current
 I_F — For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)
 I_f — Alternating component of forward current (rms value)
 i_F — Instantaneous total forward current
 $I_{F(AV)}$ — Forward current, dc (with alternating component)
 I_{FM} — Maximum (peak) total forward current
 $I_{F(OV)}$ — Forward current, overload
 I_{FRM} — Maximum (peak) forward current, repetitive
 $I_{F(RMS)}$ — Total rms forward current
 I_{FSM} — Maximum (peak) forward current, surge
 I_G — Gate current, dc
 I_{GF} — Forward gate current
 I_{GR} — Reverse gate current
 I_{GSS} — Reverse gate current, drain short-circuited to source
 I_{GSSF} — Forward gate current, drain short-circuited to source
 I_{GSSR} — Reverse gate current, drain short-circuited to source
 I_i — Inflection-point current

$Im(h_{ie})$ — Imaginary part of common-emitter small-signal short-circuit input impedance
 $im(h_{oe})$ — Imaginary part of common-emitter small-signal open-circuit output admittance
 I_O — Average forward current, 180° conduction angle, 60-Hz half sine wave
 I_P — Peak-point current
 I_R — For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)
 I_r — Alternating component of reverse current (rms value)
 i_R — Instantaneous total reverse current
 $I_{R(AV)}$ — Reverse current, dc (with alternating component)
 I_{RM} — Maximum (peak) total reverse current
 I_{RRM} — Maximum (peak) reverse current, repetitive
 $I_{R(RMS)}$ — Total rms reverse current
 I_{RSM} — Maximum (peak) surge reverse current
 I_S — Source current, dc
 I_{SDS} — Zero-gate-voltage source current
 $I_{S(\text{off})}$ — Source cutoff current
 I_V — Valley-point current
 I_Z — Regulator current, reference current (dc)
 I_{ZK} — Regulator current, reference current (dc near breakdown knee)
 I_{ZM} — Regulator current, reference current (dc maximum rated current)
 K, k — Cathode
 L_c — Conversion loss
 M — Figure of merit
 NF_o — Overall noise figure
 NR_o — Output noise ratio
 P_{BE} — Power input (dc) to base, common emitter
 p_{BE} — Instantaneous total power input to base, common emitter
 P_{CB} — Power input (dc) to collector, common base
 p_{CB} — Instantaneous total power input to collector, common base
 P_{CE} — Power input (dc) to collector, common emitter
 p_{CE} — Instantaneous total power input to collector, common emitter
 P_{EB} — Power input (dc) to emitter, common base
 p_{EB} — Instantaneous total power input to emitter, common base
 P_F — Forward power dissipation, dc (no alternating component)
 p_F — Instantaneous total forward power dissipation
 $P_{F(AV)}$ — Forward power dissipation, dc (with alternating component)
 P_{FM} — Maximum (peak) total forward power dissipation
 P_{IB} — Common-base large-signal input power
 p_{ib} — Common-base small-signal input power
 P_{IC} — Common-collector large-signal input power
 p_{ic} — Common-collector small-signal input power
 P_{IE} — Common-emitter large-signal input power
 p_{ie} — Common-emitter small-signal input power
 P_{OB} — Common-base large-signal output power
 p_{ob} — Common-base small-signal output power
 P_{OC} — Common-collector large-signal output power
 p_{oc} — Common-collector small-signal output power
 P_{OE} — Common-emitter large-signal output power
 p_{oe} — Common-emitter small-signal output power
 P_R — Reverse power dissipation, dc (no alternating component)
 p_R — Instantaneous total reverse power dissipation
 $P_{R(AV)}$ — Reverse power dissipation, dc (with alternating component)

- P_{RM}** —Maximum (peak) total reverse power dissipation
P_T —Total nonreactive power input to all terminals
p_T —Nonreactive power input, instantaneous total, to all terminals
Q_S —Stored charge
r_{BB} —Interbase resistance
r_b'C_c —Collector-base time constant
r_{CE(sat)} —Saturation resistance, collector-to-emitter
r_{DS(on)} —Static drain-source on-state resistance
r_{ds(on)} —Small-signal drain-source on-state resistance
Re(h_{ie}) —Real part of common-emitter small-signal short-circuit input impedance
Re(h_{oe}) —Real part of common-emitter small-signal open-circuit output admittance
r_{e1e2(on)} —Small-signal emitter-emitter on-state resistance
r_i —Dynamic resistance at inflection point
R_θ —Thermal resistance
R_{θCA} —Thermal resistance, case to ambient
R_{θJA} —Thermal resistance, junction to ambient
R_{θJC} —Thermal resistance, junction to case
S, s —Source
T_A —Ambient temperature or free-air temperature
T_C —Case temperature
t_d —Delay time
t_{d(off)} —Turn-off delay time
t_{d(on)} —Turn-on delay time
t_f —Fall time
t_{fr} —Forward recovery time
T_j —Junction temperature
t_{off} —Turn-off time
t_{on} —Turn-on time
t_p —Pulse time
t_r —Rise time
t_{rr} —Reverse recovery time
t_s —Storage time
TSS —Tangential signal sensitivity
T_{stg} —Storage temperature
t_w —Pulse average time
U, u —Bulk (substrate)
V_{BB} —Base supply voltage (dc)
V_{BC} —Average or dc voltage, base to collector
V_{bc} —Instantaneous value of alternating component of base-collector voltage
V_{BE} —Average or dc voltage, base to emitter
v_{be} —Instantaneous value of alternating component of base-emitter voltage
V_(BR) —Breakdown voltage (dc)
v_(BR) —Breakdown voltage (instantaneous total)
V_{(BR)CBO} —Collector-base breakdown voltage, emitter open
V_{(BR)CEO} —Collector-emitter breakdown voltage, base open
V_{(BR)CER} —Collector-emitter breakdown voltage, resistance between base and emitter
V_{(BR)CES} —Collector-emitter breakdown voltage, base shorted to emitter
V_{(BR)CEV} —Collector-emitter breakdown voltage, specified voltage between base and emitter
V_{(BR)CEX} —Collector-emitter breakdown voltage, specified circuit between base and emitter
V_{(BR)EBO} —Emitter-base breakdown voltage, collector open
V_{(BR)ECO} —Emitter-collector breakdown voltage, base open
V_{(BR)E1E2} —Emitter-emitter breakdown voltage
V_{(BR)GSS} —Gate-source breakdown voltage
V_{(BR)GSSF} —Forward gate-source breakdown voltage
V_{(BR)GSSR} —Reverse gate-source breakdown voltage
V_{B2B1} —Interbase voltage
V_{CB} —Average or dc voltage, collector to base
v_{cb} —Instantaneous value of alternating component of collector-base voltage
V_{CB(fl)} —Collector-base dc open-circuit voltage (floating potential)
V_{CBO} —Collector-base voltage, dc, emitter open
V_{CC} —Collector supply voltage (dc)
V_{CE} —Average or dc voltage, collector to emitter
v_{ce} —Instantaneous value of alternating component of collector-emitter voltage
V_{CE(fl)} —Collector-emitter dc open-circuit voltage (floating potential)
V_{CEO} —Collector-emitter voltage (dc), base open
V_{CE(ofs)} —Collector-emitter offset voltage
V_{CER} —Collector-emitter voltage (dc), resistance between base and emitter
V_{CES} —Collector-emitter voltage (dc), base shorted to emitter
V_{CE(sat)} —Collector-emitter dc saturation voltage
V_{CEV} —Collector-emitter voltage (dc), specified voltage between base and emitter
V_{CEX} —Collector-emitter voltage (dc), specified circuit between base and emitter
V_{DD} —Drain supply voltage (dc)
V_{DG} —Drain-gate voltage
V_{DS} —Drain-source voltage
V_{DS(on)} —Drain-source on-state voltage
V_{DU} —Drain-substrate voltage
V_{EB} —Average or dc voltage, emitter to base
v_{eb} —Instantaneous value of alternating component of emitter-base voltage
V_{EB(fl)} —Emitter-base dc open-circuit voltage (floating potential)
V_{EBO} —Emitter-base voltage (dc), collector open
V_{EB1(sat)} —Emitter saturation voltage
V_{EC} —Average or dc voltage, emitter to collector
v_{ec} —Instantaneous value of alternating component of emitter-collector voltage
V_{EC(fl)} —Emitter-collector dc open-circuit voltage (floating potential)
V_{EC(ofs)} —Emitter-collector offset voltage
V_{EE} —Emitter supply voltage (dc)
V_F —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
V_f —Alternating component of forward voltage (rms value)
V_F —Instantaneous total forward voltage
V_{F(AV)} —Forward voltage, dc (with alternating component)
V_{FM} —Maximum (peak) total forward voltage
V_{F(RMS)} —Total rms forward voltage
V_{GG} —Gate supply voltage (dc)
V_{GS} —Gate-source voltage
V_{GSF} —Forward gate-source voltage
V_{GSoff} —Gate-source cutoff voltage
V_{GSR} —Reverse gate-source voltage
V_{GSt(h)} —Gate-source threshold voltage
V_{GU} —Gate-substrate voltage
V_I —Inflection-point voltage
V_{OB1} —Base-1 peak voltage
V_P —Peak-point voltage
V_{PP} —Projected peak-point voltage
V_R —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
V_r —Alternating component of reverse voltage (rms value)

V_R —Instantaneous total reverse voltage	y_{ob} —Common-base small-signal short-circuit output admittance
$V_{R(AV)}$ —Reverse voltage, dc (with alternating component)	y_{oc} —Common-collector small-signal short-circuit output admittance
V_{RM} —Maximum (peak) total reverse voltage	y_{oe} —Common-emitter small-signal short-circuit output admittance
V_{RRM} —Repetitive peak reverse voltage	$y_{oe(imag)}$ —Imaginary part of small-signal short-circuit output admittance (common-emitter)
$V_{R(RMS)}$ —Total rms reverse voltage	$y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)
V_{RSM} —Nonrepetitive peak reverse voltage	y_{os} —Common-source small-signal short-circuit output admittance
V_{RT} —Reach-through voltage	$y_{os(imag)}$ —Common-source small-signal output susceptance
V_{RWM} —Working peak reverse voltage	$y_{os(real)}$ —Common-source small-signal output conductance
V_{SS} —Source supply voltage (dc)	y_{rb} —Common-base small-signal short-circuit reverse transfer admittance
V_{SU} —Source-substrate voltage	y_{rc} —Common-collector small-signal short-circuit reverse transfer admittance
$V_{(TO)}$ —Threshold voltage	y_{re} —Common-emitter small-signal short-circuit reverse transfer admittance
V_V —Valley-point voltage	y_{rs} —Common-source small-signal short-circuit reverse transfer admittance
V_Z —Regulator voltage, reference voltage (dc)	$y_{rs(imag)}$ —Common-source small-signal reverse transfer susceptance
V_{ZM} —Regulator voltage, reference voltage (dc at maximum rated current)	$y_{rs(real)}$ —Common-source small-signal reverse transfer conductance
y_{fb} —Common-base small-signal short-circuit forward transfer admittance	z_{if} —Intermediate-frequency impedance
y_{fc} —Common-collector small-signal short-circuit forward transfer admittance	z_m —Modulator-frequency load impedance
y_{fe} —Common-emitter small-signal short-circuit forward transfer admittance	z_{rf} —Radio-frequency impedance
y_{fs} —Common-source small-signal short-circuit forward transfer admittance	$Z_{\theta(A(t)}$ —Junction-to-ambient transient thermal impedance
$y_{fs(imag)}$ —Common-source small-signal forward transfer susceptance	$Z_{\theta(C(t)}$ —Junction-to-case transient thermal impedance
$y_{fs(real)}$ —Common-source small-signal forward transfer conductance	$Z_{\theta(t)}$ —Transient thermal impedance
y_{ib} —Common-base small-signal short-circuit input admittance	z_v —Video impedance
y_{ic} —Common-collector small-signal short-circuit input admittance	z_z —Regulator impedance, reference impedance (small-signal at I_z)
y_{ie} —Common-emitter small-signal short-circuit input admittance	z_{zk} —Regulator impedance, reference impedance (small-signal at I_{ZK})
$y_{ie(imag)}$ —Imaginary part of small-signal short-circuit input admittance (common-emitter)	z_{zm} —Regulator impedance, reference impedance (small-signal at I_{ZM})
$y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)	
y_{is} —Common-source small-signal short-circuit input admittance	
$y_{is(imag)}$ —Common-source small-signal input susceptance	
$y_{is(real)}$ —Common-source small-signal input conductance	

PREFIX AND MANUFACTURER IDENTIFICATION

PREFIX	MANUFACTURER	PREFIX	MANUFACTURER	PREFIX	MANUFACTURER
BA	Rohm	MOC	Motorola	SLP	Sanyo
CEX	Control Electronics	MPS	Motorola	SN	Texas Instrument
DAC	National Semiconductor	MRF	Motorola	TA	Toshiba
FND	Fairchild	MU	Motorola	TIL	Texas Instrument
FRL	Litronix	MV	General Instrument	TIP	Motorola
ICM	Intersil	NE	Signetics	TLO	Texas Instrument
LF	National Semiconductor	NSM	National Semiconductor	TL	Texas Instrument
LM	National Semiconductor	PCIM	PC International	TLG	Toshiba
MA	National Semiconductor	S	American Micro Systems	TLR	Toshiba
MC	Motorola	SAD	Reticon	VN	Siliconix
MJ	Motorola	SE	Signetics	XC	Xciton
MM	National Semiconductor, Motorola or Teledyne	SEL	Sanken		
		SCS	Spectronics		

GENERIC PART NUMBER PREFIX CODE

AD	Analog To Digital	DA	Digital To Analog	LM	Linear Monolithic
AH	Analog Hybrid	DM	Digital Monolithic	MM	MOS Monolithic
AM	Analog Monolithic	LF	Linear FET	TBA	Linear Monolithic
CD	CMOS Digital	LH	Linear Hybrid		

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