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PREPARED BY: _____ DATE: _____	<h1>SHARP</h1> <p>ELECTRONIC COMPONENTS GROUP SHARP CORPORATION</p> <h2>SPECIFICATION</h2>	SPEC No. DG-944064
APPROVED BY: _____ DATE: _____		FILE No. _____
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		PAGE 7 Pages
		REPRESENTATIVE DIVISION C) PTO-ELECTRONIC DEVICES DIV.

DEVICE SPECIFICATION FOR

GaP Yellow-green LED
Radial type tapering

MODEL No. **LT6E26TP**

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2. Please obey the instructions mentioned below for actual use of this device, Contact a SHARP representative of sales office in advance when You intend to use SHARP devices for any applications other than those applications for general electronic equipment recommend by SHARP at (1).
 - (1) This device is designed for general electronic equipment.
Main uses of this device are as follows:

<ul style="list-style-type: none"> · OA equipment · AV equipment · Home appliance · Telecommunication equipment (Terminal) - Measuring equipment 	<ul style="list-style-type: none"> · Home appliance · Tooling machine · Computer, etc.
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 - (2) Please take proper steps in order to maintain reliability and safety, in case this device is used for the uses mentioned below which require high reliability.

<ul style="list-style-type: none"> · Unit concerning control and safety of a vehicle (air plane, train, automobile etc.) · Gasleak detection breaker · Other safety equipment, etc. 	<ul style="list-style-type: none"> · Traffic signal · Fire box and burglar alarm box
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 - (3) Please do not use for the uses mentioned below which require extremely high reliability.

<ul style="list-style-type: none"> · Space equipment · Nuclear control equipment 	<ul style="list-style-type: none"> · Telecommunication equipment (Trunk) · Medical equipment etc.
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CUSTOMER'S APPROVAL

DATE

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SHARP CORPORATION

SHARPLT6E26TP

This data sheet is to introduce the specification of the light emitting device, Model No, LT6E26TP, delivered to

1. Structure and characteristics

Structure: Radial type taping of GL8EG26T, GaP Yellow-green LED. the leads are straight at 18.0mm from the bottom face of resin.

Taping specifications: See Page 3

Packing specifications: See Page 4,5

Taping test: See Page 6

Outline dimensions and pin connections of GL8EG26T: See Page 7

2. Absolute maximum ratings.

(Ta = 25°C)

Parameter	Symbol	Value	Unit
Power dissipation	P	84	W
Continuous forward current	IF	30	mA
Peak forward current (Note 1)	IFM	50	mA
Derating factor		(DC) 0.40 (Pulse) 0.67	mA/°C
Reverse voltage	VR	5	V
Operating temperature	ToPr	-25 ~ +85	°C
Storage temperature	Tstg	-25 ~ +100	°C
Soldering temperature (Note 2)	Tsol	260 (within 5 seconds)	°C

(Note 1) Duty ratio = 1/10, Pulse width = 0.1ms

(Note 2) Distance from the bottom of resin: 1.6mm

3. Electro-optical characteristics

(Ta = 25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit	
Forward voltage	VF	IF = 20mA	-	2.1	2.8	V	
Luminous intensity (Note 3)	Iv		60	140	-	mcd	
Peak emission wavelength	λp				565	-	nm
Spectrum radiation bandwidth	Δλ				30	-	nm
Reverse current	IR	VR = 4V	-	-	1.0	μA	
Terminal capacitance	Ct	V=0V, f=1MHz	-	35	-	pF	

(Note 3) Tolerance; ±1.5%

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3. **When an LED lamp is mounted directly on PUB**

If the bottom face of an LED lamp is mounted directly on single-sided PUB, the base of the lead pins may be subjected to physical stress due to PWB warp, cutting or clinching of lead pins.

Prior to use, be sure to check that no disconnection inside of the resin or damage to resin etc., is found.

when an LED lamp is mounted on double-sided PWB, the heat during soldering affects the resin; therefore, keep the LED lamp more than 1.6mm afloat above the PWB.

4. **Others**

If any problem should arise from this specification, the supplier and user should work out a mutually acceptable solution.

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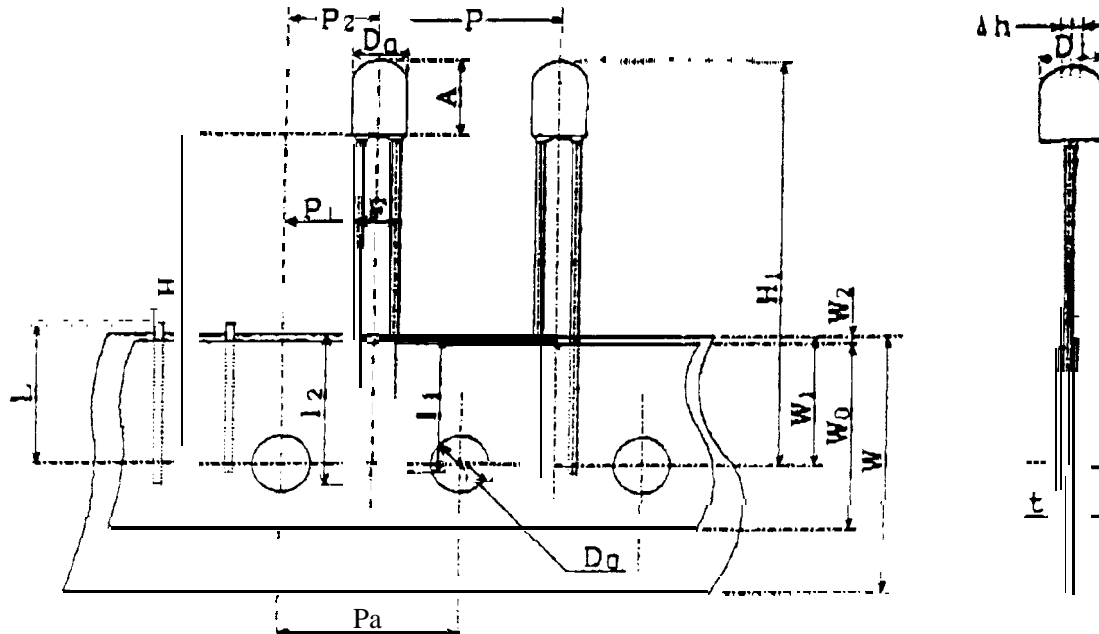
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(1) Taping specifications



Parameter	Symbol	Dimensions(mm)	Remark
Lamp diameter(Short)	D_s	4.6 ± 0.2	
Lamp diameter(Long)	D_l	5.8 ± 0.2	
Lamp height	A	7.7 ± 0.2	
Lead diameter	d	0.5 ± 0.1	
Device spacing(Center to center)	P	12.7 ± 1.0	
Hole pitch (Center to center)	P_1	12.7 ± 0.3	a
Hole location	P_2	5.08 ± 0.7	
	F	6.35 ± 1.3	
Lead spacing(Center to center)	F	2.54 MIN	b
Inclination	Δh	0.0 ± 2.0	c
Tape width	W	18.0 ± 0.3	
Adhesive tape width	W_0	13.0 ± 0.3	
Hole center to tape edge	W_1	9.0 ± 0.5	
Adhesive tape edge to tape edge	W_2	1.0 以下	
Lamp bottom to hole center	H	18.0 ± 1.0	
Total length	H_1	25.7 ± 0.5	
Covered lead length	l_1	13.5 以上	
	l_2	14.5 以上	
Hole diameter	D_0	4.0 ± 0.2	
Lead length after rejective defective product	L	11.0 以下	
Tape thickness(total)	t	0.7 ± 0.2	d

Remark- a. Dimension allowance "a" must be 1mm or less per 20 pitches.

b. Measuring point shall be below the resin.

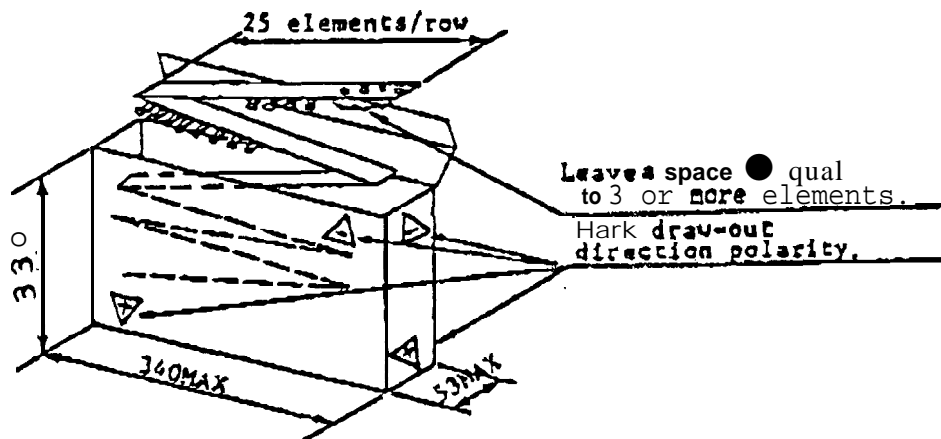
c. Measuring point shall be the lamp top.

d. The base sheet is 0.37 ± 0.1 in thickness.

※Lamp specifications: See Page 7

SHARP**(2) Packing Specification****1. Packing form****Box type**

- a) Folding type of a radial-type taping dimension (separately discussed) to ● length of 25 elements per rev.
- b) Leave a space equal to 3 or more elements at both ends of the tape. Model No., luminous intensity rank and polarity are printed.
- c) Distinguish cathode draw-out method from anode draw-out method, according to light-emitting diode polarity. The former corresponds to the upper lid opening method ● and the latter corresponds to the lower lid opening method.



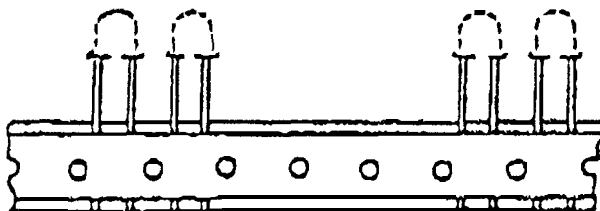
*Insert cushion material between produce and upper or lower lid of the case.

2. Packing quantity

2,000 elements per case (standard)

3. Missing ● elements

Three or less consecutive ● elements may be □ missing, as shown below.



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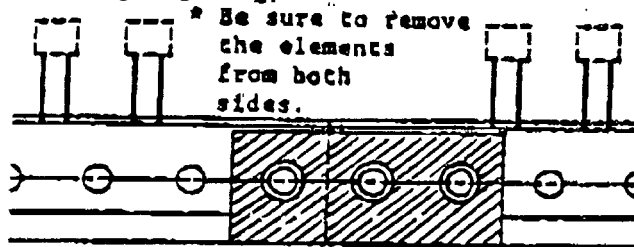
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SHARP**4. Connecting**

- 1) To connect the 'tapes (case of finishing or cutting the tape), cut the tape ends and connect them using connecting tape, as shown below.



- 2) Method or points of connecting

① Cutting the tape

Attach the tapes to tool, as shown below, and cut at the center between feed holes of both tapes using scissors.

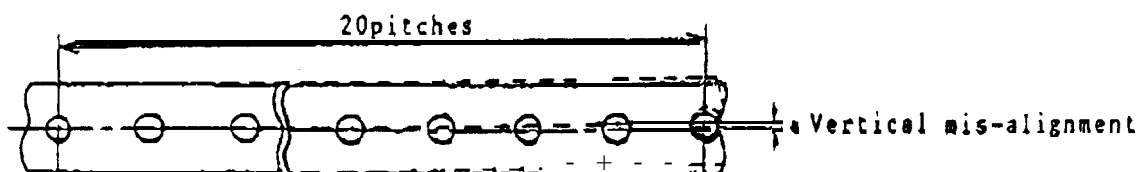


② Connecting the tape

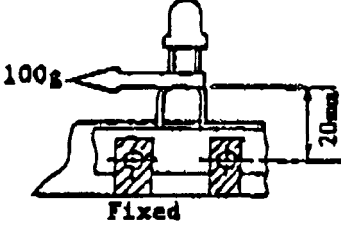
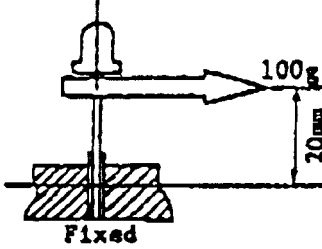
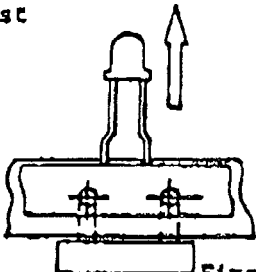
After cutting, connect the tapes using the connecting tape under the condition of attaching them to the tool.

- 3) Accuracy of connecting

The connecting tape should not cover the feed holes (D.). And total tape thickness (t) must be less than 1.5mm after connect. Dimension allowance "a" must be less than 1mm per 20 pitches.

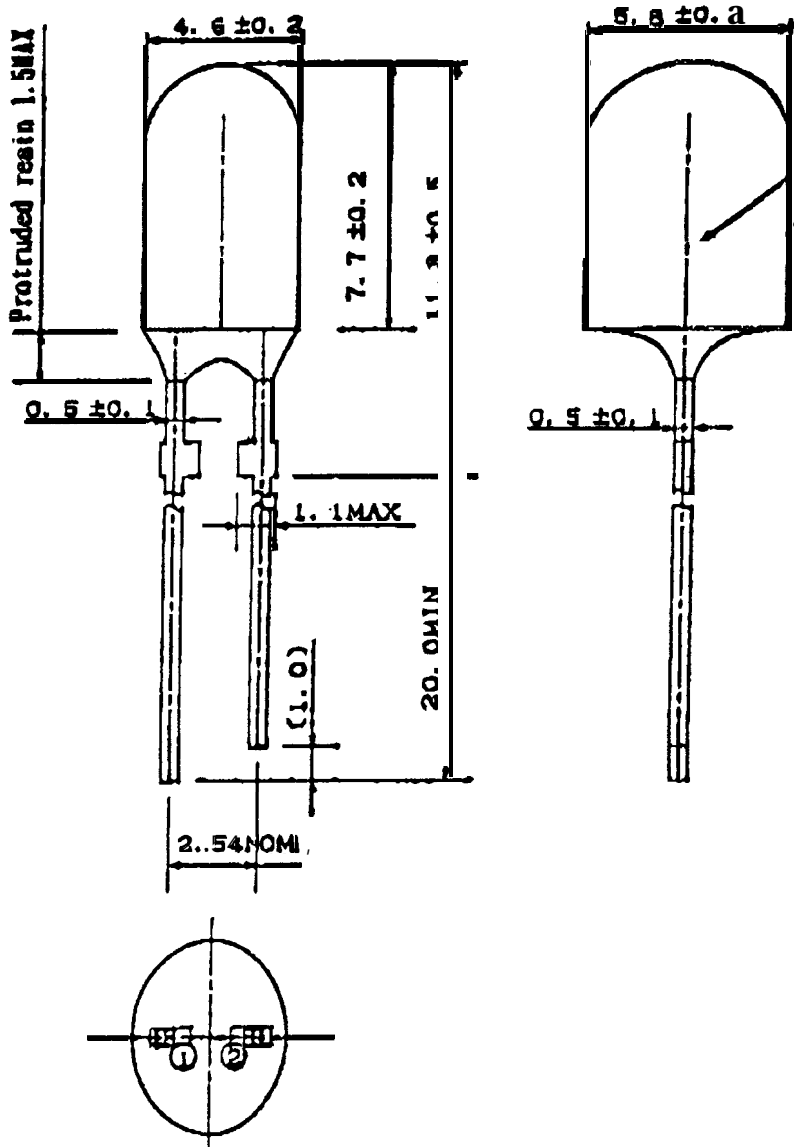


SHARP**(3) Taping Test**

No.	Items	Test Method	Performance Criteria
1	Lead wire strength	1) Horizontal direction  Apply 100g load in the direction shown by the arrow above for 3 sec. ± 1 .	In accordance with Specifications for Inserted Parts.
		2) Vertical direction  Apply 100g load in the direction shown by the arrow above for 3 sec. ± 1 .	In accordance with Specifications for Inserted Parts
2	Adhesive test	1) Strength test  Apply 500g load in the direction shown by the arrow for 3 sec. ± 1 .	Lead wire must not be out of place or missing
		2) Life test Let sample stand at normal temperature and humidity for 6 months.	Same as above

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Colored transparency

Pin connections
 1. Anode
 2. Cathode

Unspecified tol. to be ± 0.2 mm

UNIT: mm

Note) Cold rolled steel leads are plated with tin but the tie-bar cut portions have no plating.

DATE	REVISE
DRAWING No.	50604025