7.6mmX7.6mm SUPER FLUX LED LAMP

Part Number: L-7676CSYC-H

Super Bright Yellow

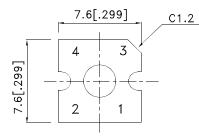
Features

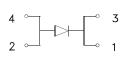
- Super flux output.
- Design for high current operation.
- Outstanding material efficiency.
- Reliable and rugged.
- RoHS compliant.

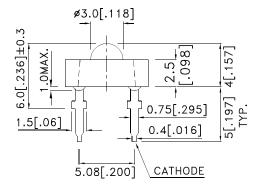
Description

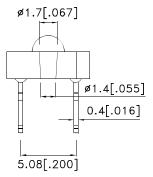
This devices are made with TS AlGaInP.

Package Dimensions









Notes:

4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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All dimensions are in millimeters (inches).
Tolerance is ±0.25(0.01") unless otherwise noted.
Lead spacing is measured where the leads emerge from the package.

Selection Guide	Dia	1	lv (mo @ 20	/	Viewing Angle [1]	
Part No.	Dice	Lens Type	Min.	Тур.	Тур.	201/2
L-7676CSYC-H	Super Bright Yellow (AlGaInP)	Water Clear	400	600	1800	70°

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.*LEDs are binned according to their Luminous intensity.
Drive current between 10mA and 30mA are recommended for long term performance.

4. Operation at current below 10mA is not recommended.

5. Luminous intensity/ luminous Flux value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Yellow	589		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	I⊧=20mA
С	Capacitance	Super Bright Yellow	45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Yellow	2.3	2.8	V	I⊧=20mA
IR	Reverse Current	Super Bright Yellow		10	uA	VR = 5V

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

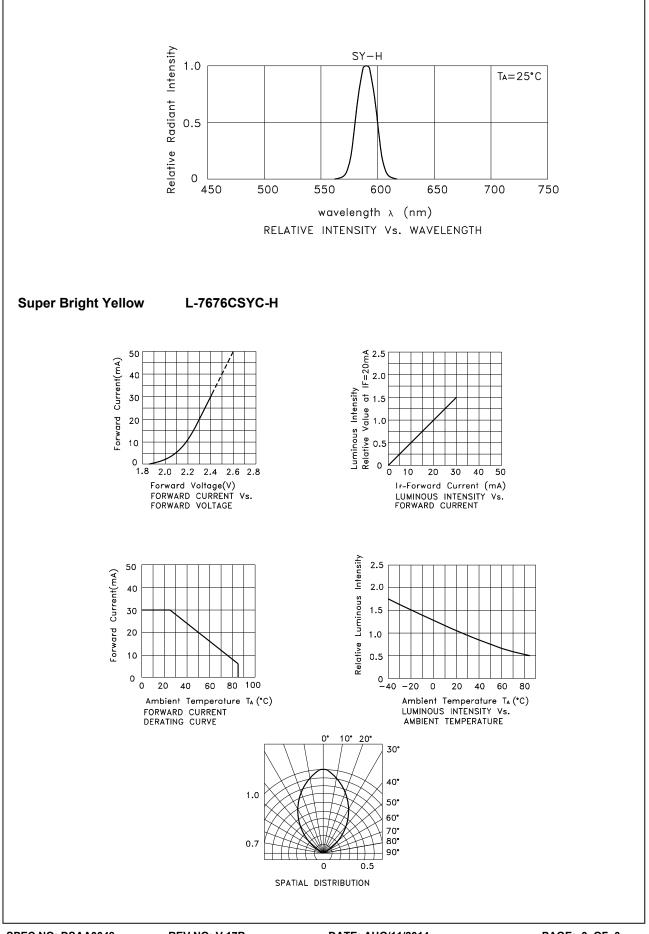
Absolute Maximum Ratings at TA=25°C

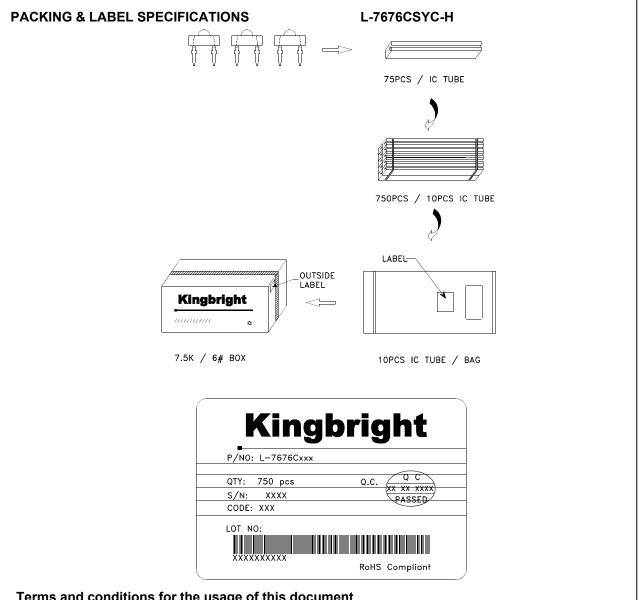
Parameter	Super Bright Yellow	Units			
Power dissipation	84	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	140	mA			
Reverse Voltage	5	V			
Operating/Storage Temperature	ng/Storage Temperature -40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.

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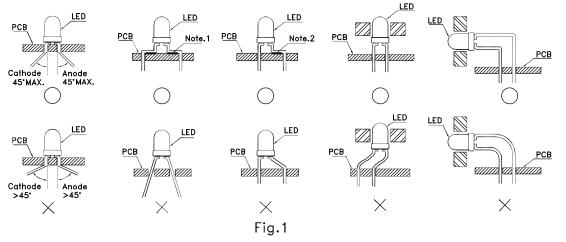


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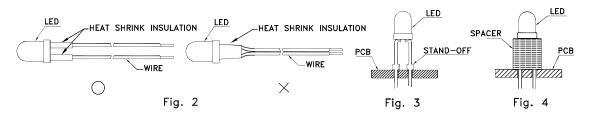
PRECAUTIONS

 The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)

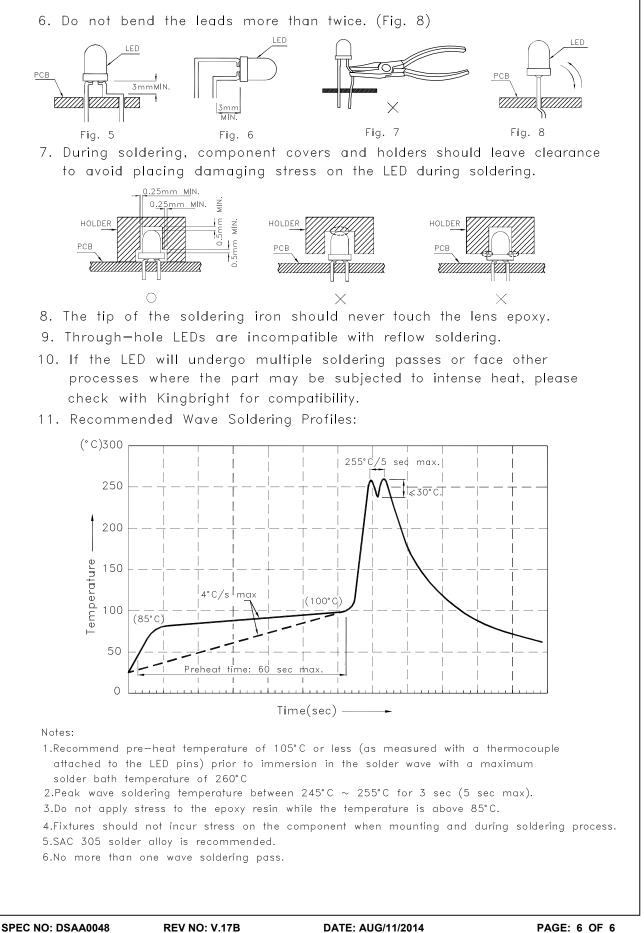


 \supset " Correct mounting method "imes" Incorrect mounting method

- When soldering wire to the LED, use individual heat-shrink tubing to insulate the exposed leads to prevent accidental contact short-circuit. (Fig.2)
- 3. Use stand-offs (Fig.3) or spacers (Fig.4) to securely position the LED above the PCB.



- 4. Maintain a minimum of 3mm clearance between the base of the LED lens and the first lead bend. (Fig. 5 and 6)
- 5. During lead forming, use tools or jigs to hold the leads securely so that the bending force will not be transmitted to the LED lens and its internal structures. Do not perform lead forming once the component has been mounted onto the PCB. (Fig. 7)



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