5mm ROUND LED LAMP

Part Number: L-9294SYC-J3

Super Bright Yellow

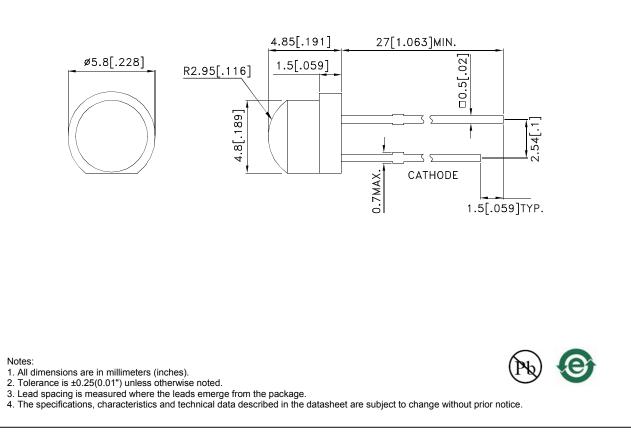
Features

- High luminous emission.
- Low power consumption.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- RoHS compliant.

Description

The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.

Package Dimensions



REV NO: V.3A CHECKED: Allen Liu DATE: DEC/18/2011 DRAWN: H.L.Ding PAGE: 1 OF 6 ERP: 1101025072

Selection Guide

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Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
					201/2
L-9294SYC-J3	Super Bright Yellow (AlGaInP)	Water Clear	400	700	130°

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity/ luminous Flux: +/-15%.

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

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Yellow	590	*590		nm	I⊧=20mA		
λD [1]	Dominant Wavelength	Super Bright Yellow	589	*590		nm	I⊧=20mA		
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20			nm	IF=20mA		
С	Capacitance	Super Bright Yellow	45			pF	VF=0V;f=1MHz		
VF [2]	Forward Voltage	Super Bright Yellow	2		2.5	V	I⊧=20mA		
IR	Reverse Current	Super Bright Yellow			10	uA	VR = 5V		

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V. *Wavelength value is traceable to the CIE127-2007 compliant national standards.

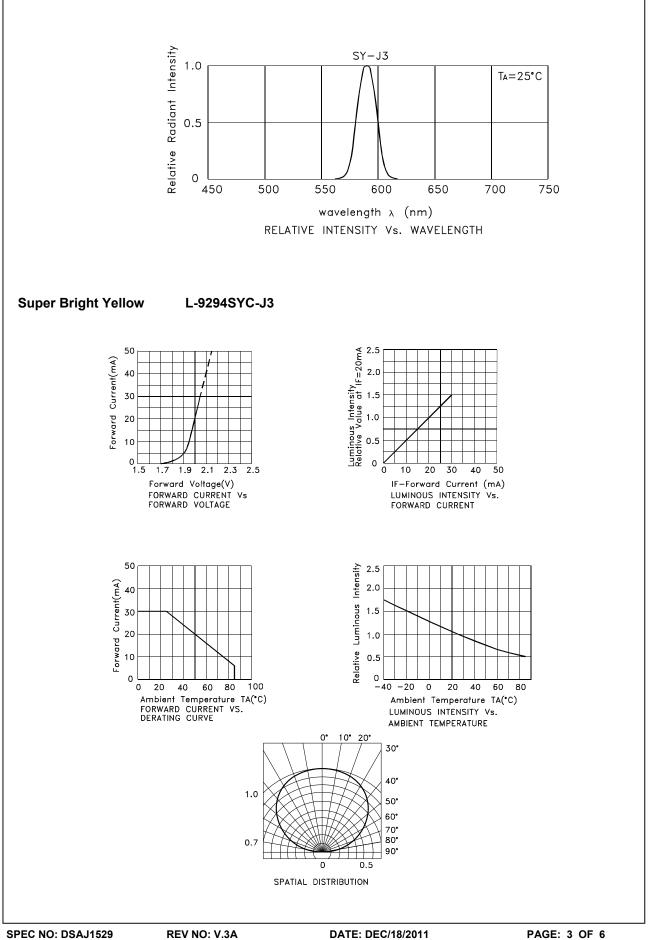
Absolute Maximum Ratings at TA=25°C

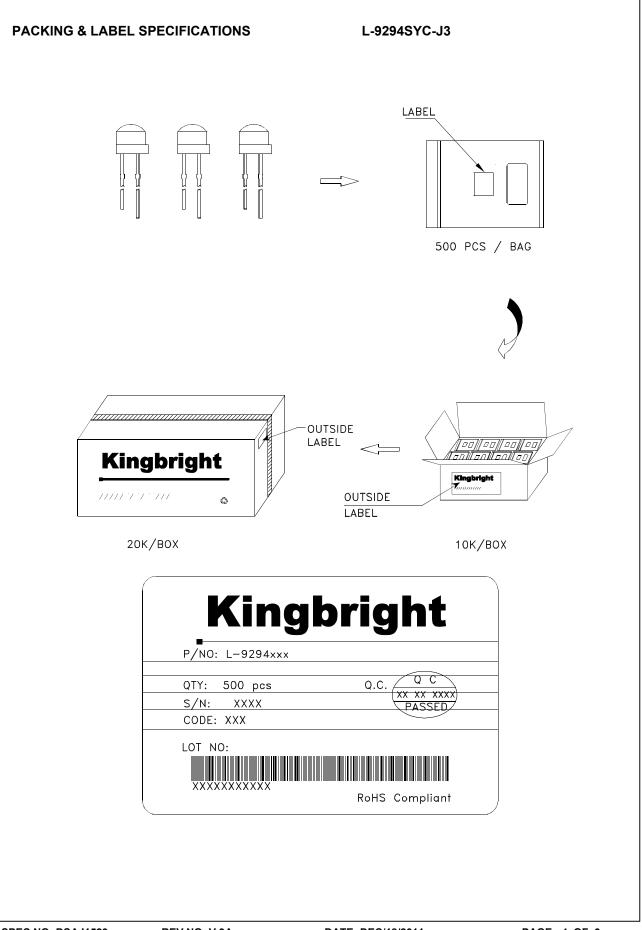
Parameter	Super Bright Yellow	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating/Storage Temperature	-40°C To +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

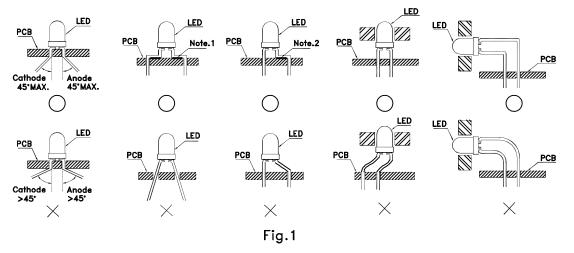
2. 2mm below package base.
3. 5mm below package base.



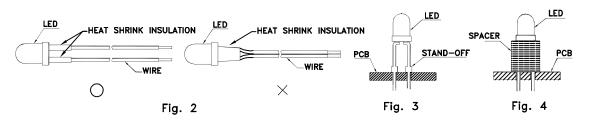


PRECAUTIONS

1. 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 2mm 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)

