Features

Low power consumption.

General purpose leads.Reliable and rugged.

Popular T-1 diameter package.

Long life - solid state reliability.

T-1 (3mm) SOLID STATE LAMP

Description

Part Number: L-934SRC-J4 Super Bright Red

The Super Bright Red source color devices are made with

AlGaInP on Si substrate Light Emitting Diode.

Available on tape and reel. RoHS compliant. **Package Dimensions** 4.6(0.181)±0.3 27(1.063)MIN. 1(0.039) $1.5(0.059) \pm 1$ ø3.2(0.126) ø2.9(0.114) CATHODE 54(0.1)ø2.8(0.11) \Box 0.5(0.02)^{+0.25} 0.7MAX 1.0MAX 5.4(0.213)±0.5 Notes: 1. All dimensions are in millimeters (inches). 2. Tolerance is ±0.25(0.01") unless otherwise noted. Lead spacing is measured where the leads emerge from the package. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

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Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	2 0 1/2				
L-934SRC-J4	Super Bright Red (AlGaInP)	Water Clear	3100	4500	34°				
			*1000	*1500					

Notes: 1. **0**1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2. Luminous intensity/ luminous Flux: +/-15%.

*Luminous intensity 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
A peak	Peak Wavelength	Super Bright Red	660		nm	IF=20mA
A D [1]	Dominant Wavelength	Super Bright Red	640		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20		nm	IF=20mA
С	Capacitance	Super Bright Red	45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Red	2.1	2.5	V	IF=20mA
IR	Reverse Current	Super Bright Red		10	uA	VR = 5V

Notes:

Wavelength: +/-1nm.
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 Red		
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	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.

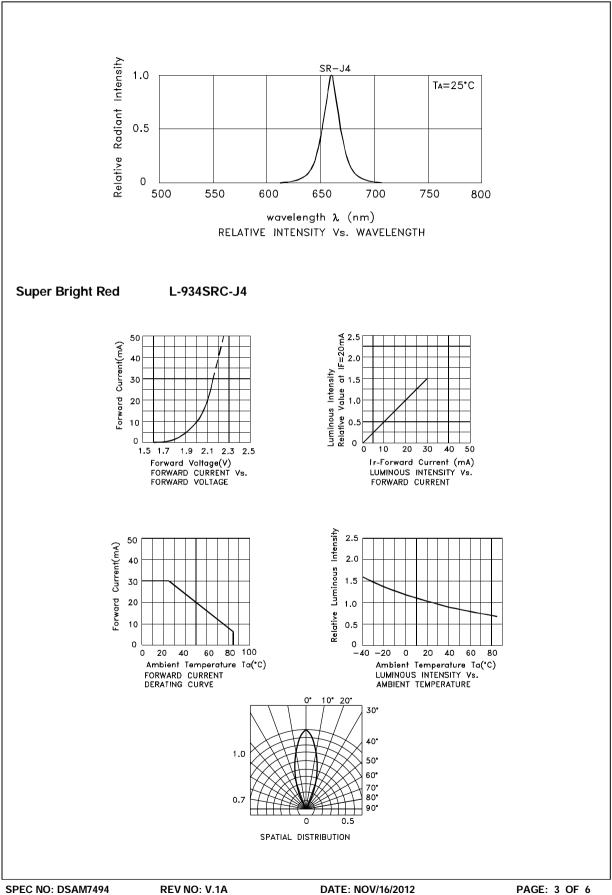
2. 2mm below package base.

3. 5mm below package base.

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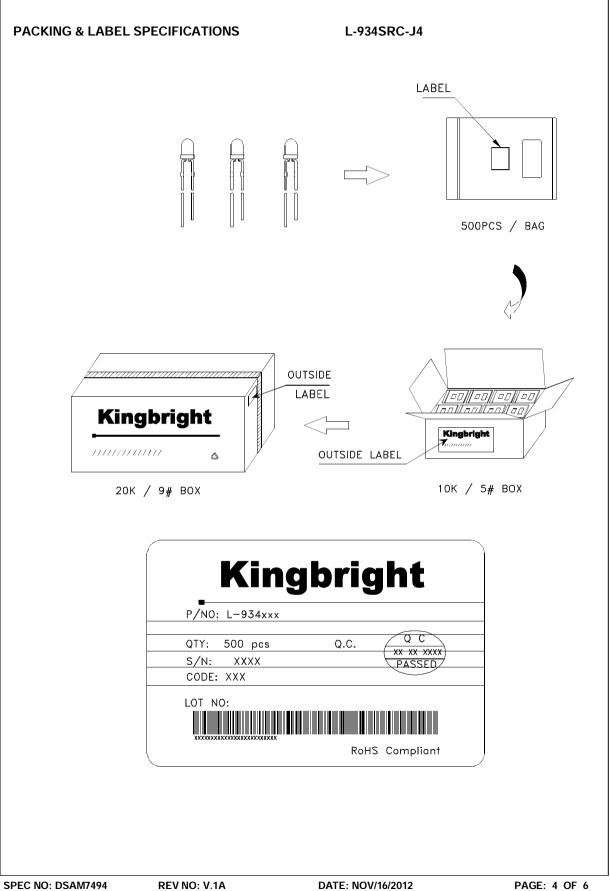
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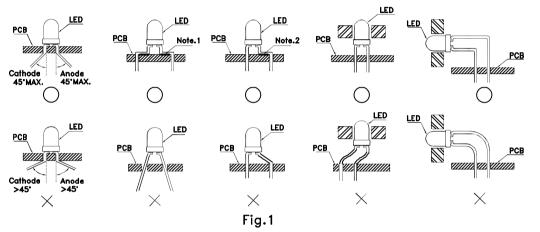
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PRECAUTIONS

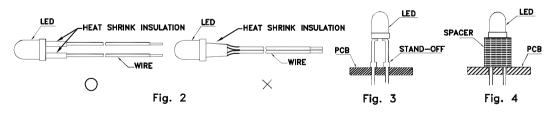
1. The lead pitch of the LED must match the pitch of the mounting holes on the PCB during component placement. Lead-forming may be required to insure the lead pitch matches the hole pitch. Refer to the figure below for proper lead forming procedures. (Fig. 1)



" () "

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)

