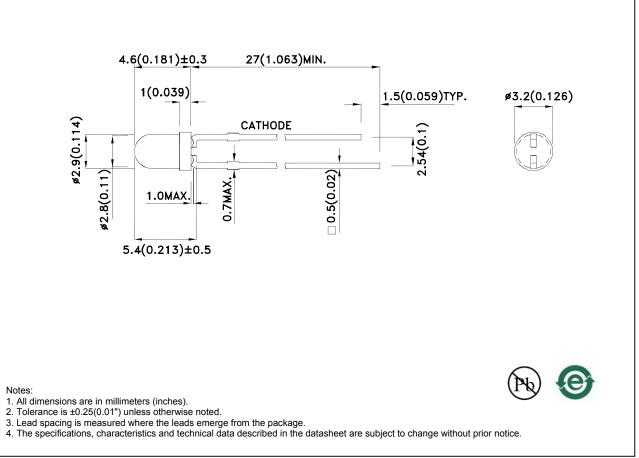
T-1 (3mm) SOLID STATE LAMP

Part Number: L-934YD-14V Yellow

FeaturesDescription• Low power consumption.The Yellow source color devices are made with Gallium• Popular T-1 diameter package.Arsenide Phosphide on Gallium Phosphide Yellow Light• General purpose leads.Emitting Diode.• Reliable and rugged.Emitting Diode.• Long life - solid state reliability.Available on tape and reel.• 14V internal resistor.RoHS compliant.

Package Dimensions



REV NO: V.2B CHECKED: Allen Liu DATE: JUL/05/2012 DRAWN: F.Cui PAGE: 1 OF 6 ERP: 1101029228

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Part No.	Dice Lens Type Iv (mcd) [2] V= 14V		Viewing Angle [1]		
			Min.	Тур.	201/2
L-934YD-14V	Yellow (GaAsP/GaP)	Yellow Diffused	6	11	40°

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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
λpeak	Peak Wavelength	Yellow	590		nm	VF=14V
λD [1]	Dominant Wavelength	Yellow	588		nm	VF=14V
Δλ1/2	Spectral Line Half-width	Yellow	35		nm	VF=14V
lf	Forward Current	Yellow	10.5	13.5	mA	VF=14V
lr	Reverse Current	Yellow		10	uA	VR = 5V

Notes: 1.Wavelength: +/-1nm. 2.Wavelength value is traceable to the CIE127-2007 compliant national standards.

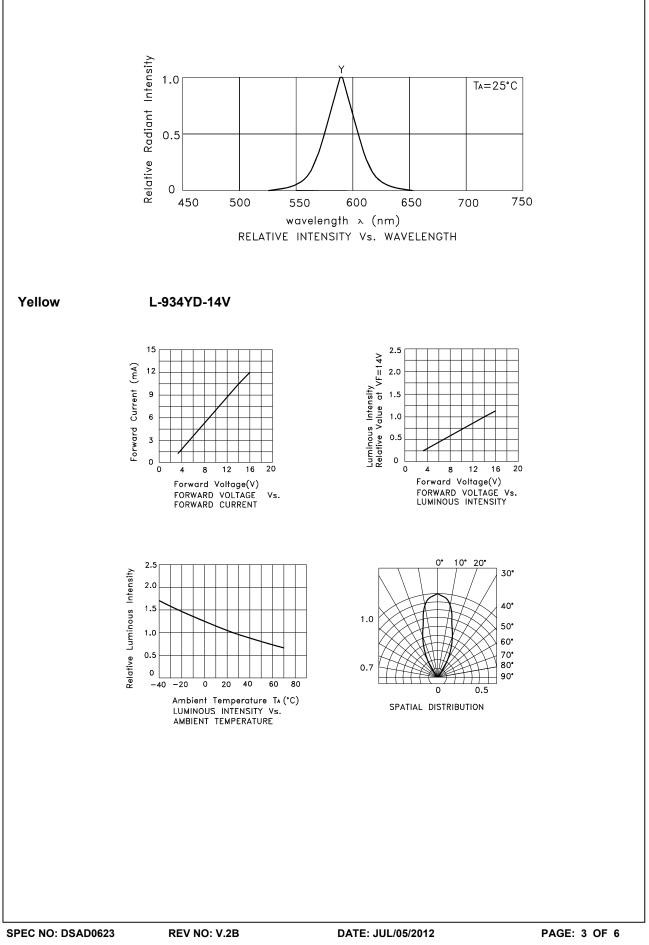
Absolute Maximum Ratings at TA=25°C

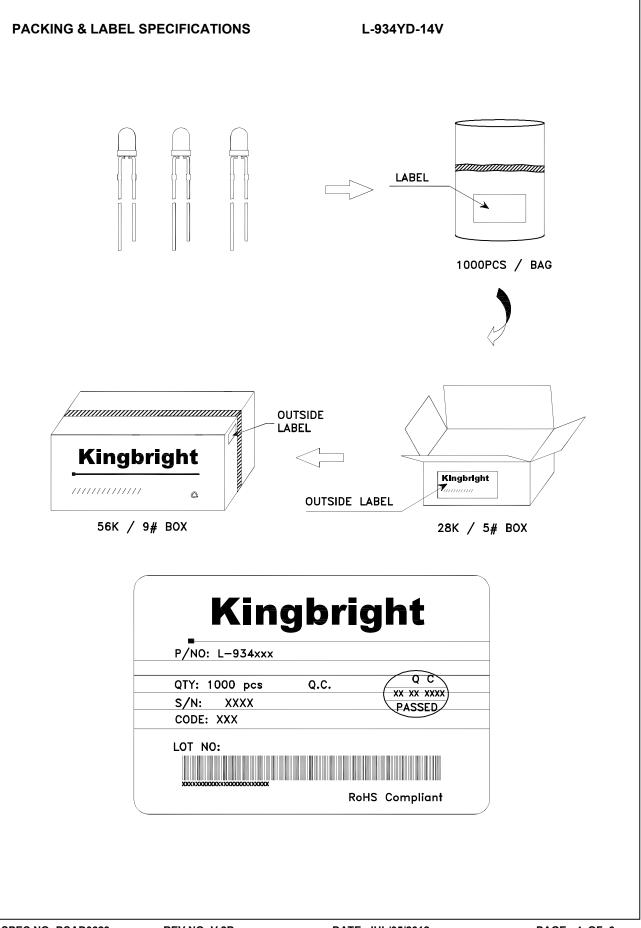
Parameter	Yellow	Units	
Power dissipation	160		
Forward Voltage	16 V		
Reverse Voltage	5	V	
Operating Temperature	-40°C To +70°C		
Storage Temperature	-40°C To +85°C		
Lead Solder Temperature [1]	260°C For 3 Seconds		
Lead Solder Temperature [2]	260°C For 5 Seconds		

Notes:

1. 2mm below package base.

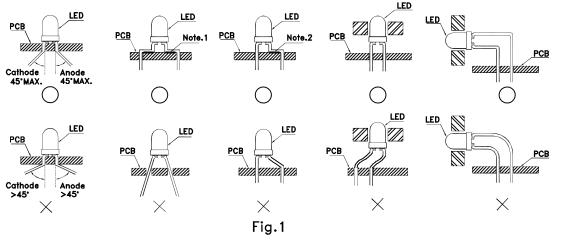
2. 5mm below package base.





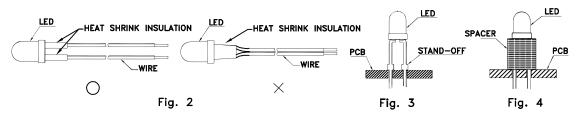
PRECAUTIONS

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)



" \bigcirc " Correct mounting method "imes" Incorrect mounting method

- 2. 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)

