T-1 (3mm) SOLID STATE LAMP

Part Number: L-7104YD-5V Yellow

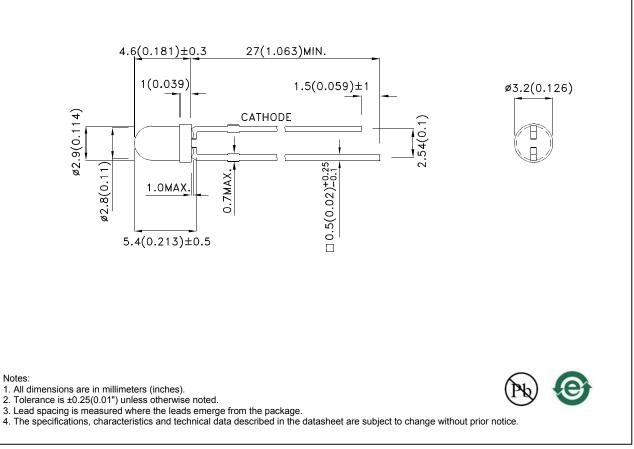
Features

- Low power consumption.
- Popular T-1 diameter package.
- General purpose leads.
- Reliable and rugged.
- Long life solid state reliability.
- Available on tape and reel.
- 5V internal resistor.
- RoHS compliant.

Description

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions



SPEC NO: DSAE8436 APPROVED: WYNEC REV NO: V.7B CHECKED: Allen Liu DATE: APR/04/2013 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1101029092

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| Selection Guide | | | | | | | |
|-----------------|--------------------|-----------------|--------------|-------|----------------------|--|--|
| Part No. | o. Dice Lens Type | Lens Type | lv (mo V= | · • • | Viewing Angle [1] | | |
| | | | Min. | Тур. | 201/2 | | |
| L-7104YD-5V | Yellow (GaAsP/GaP) | Yellow Diffused | 7 | 15 | 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=5V |
| λD [1] | Dominant Wavelength | Yellow | 588 | | nm | VF=5V |
| Δλ1/2 | Spectral Line Half-width | Yellow | 35 | | nm | VF=5V |
| lf | Forward Current | Yellow | 13 | 17.5 | mA | VF=5V |
| IR Reverse Current | | Yellow | | 10 | uA | VR = 5V |

Note:

1.Wavelength: +/-1nm.

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

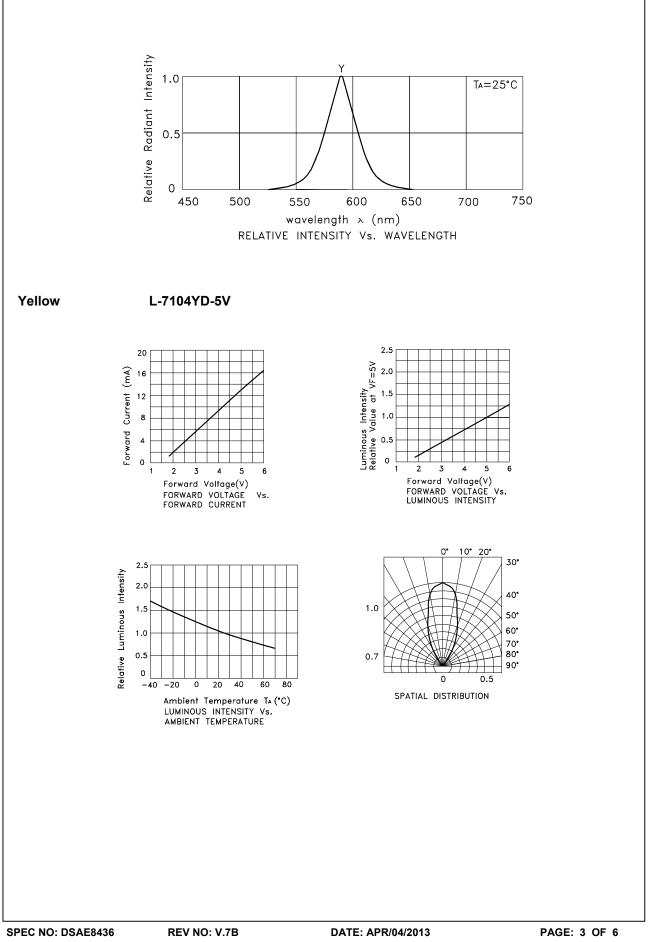
Absolute Maximum Ratings at TA=25°C

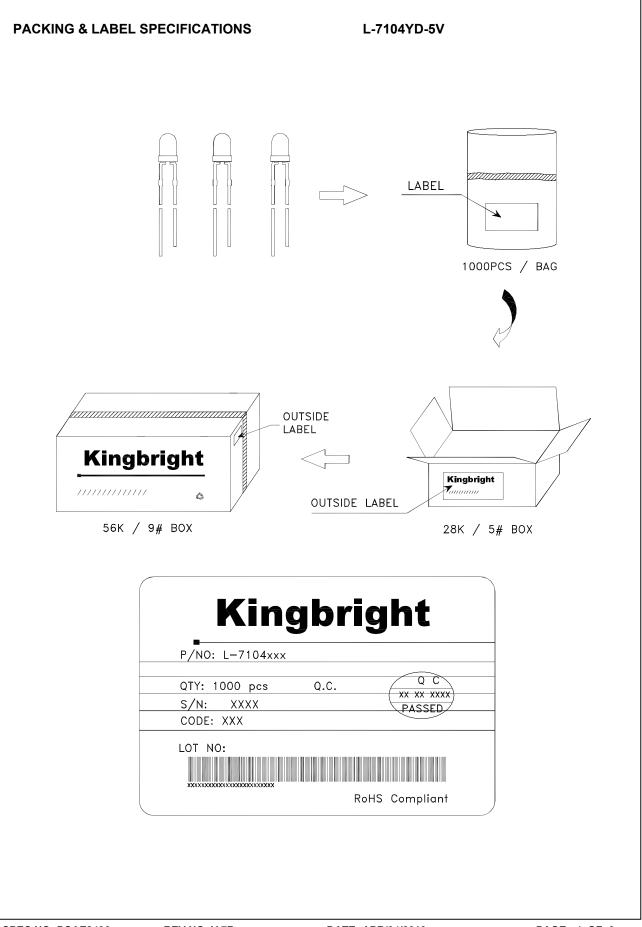
| Parameter | Yellow | | |
|-----------------------------|---------------------|----|--|
| Power dissipation | 85 | mW | |
| Forward Voltage | 6 V | | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +70°C | | |
| Storage Temperature | -40°C To +85°C | | |
| Lead Solder Temperature [1] | 260°C For 3 Seconds | | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | | |

Notes:

1. 2mm below package base.

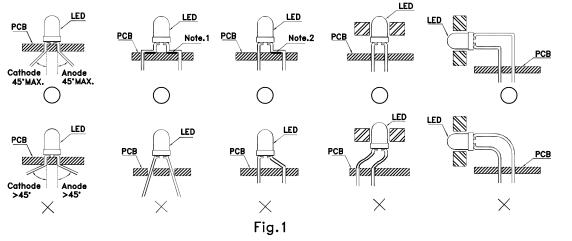
2. 5mm below package base.





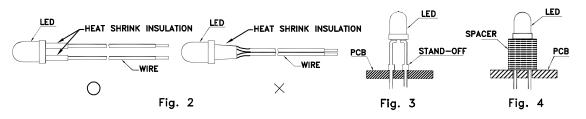
PRECAUTIONS

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)

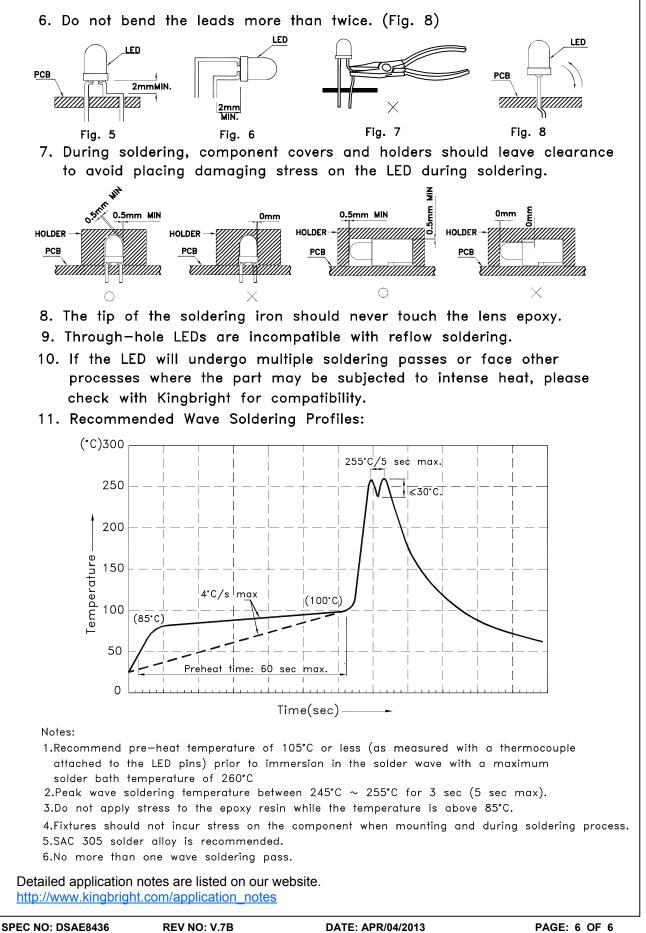


 \supset " Correct mounting method "imes" Incorrect mounting method

- 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)



DATE: APR/04/2013 DRAWN: Y.Liu