imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



T-1 3/4 (5mm) BI-COLOR INDICATOR LAMP

Part Number: WP57GYW

Green Yellow

Features

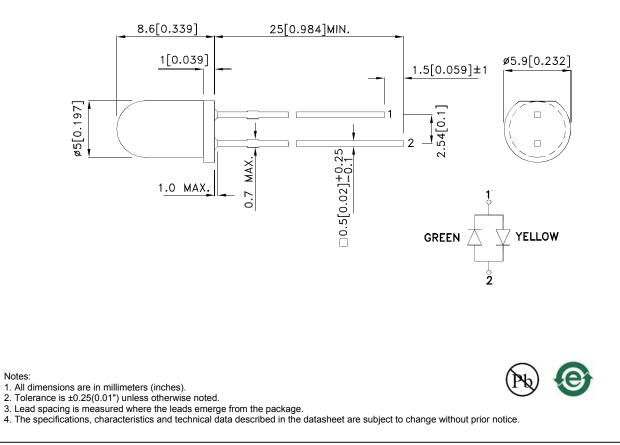
- Low power consumption.
- Long life solid state reliability.
- RoHS compliant.

Description

The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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

Package Dimensions



SPEC NO: DSAE8734 APPROVED: WYNEC REV NO: V.6B CHECKED: Allen Liu DATE: FEB/15/2013 DRAWN: Y.Liu PAGE: 1 OF 7 ERP: 1101005689

Selection Guide lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. Green (GaP) 12 30 WP57GYW White Diffused 60° Yellow (GaAsP/GaP) 4 10

Notes:

1. θ 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%.

3.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 | Green Yellow | 565 590 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | Green Yellow | 568 588 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Green Yellow | 30 35 | | nm | I⊧=20mA |
| С | Capacitance | Green Yellow | 15 20 | | pF | VF=0V;f=1MHz |
| Vf [2] | Forward Voltage | Green Yellow | 2.2 2.1 | 2.5 2.5 | V | IF=20mA |

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

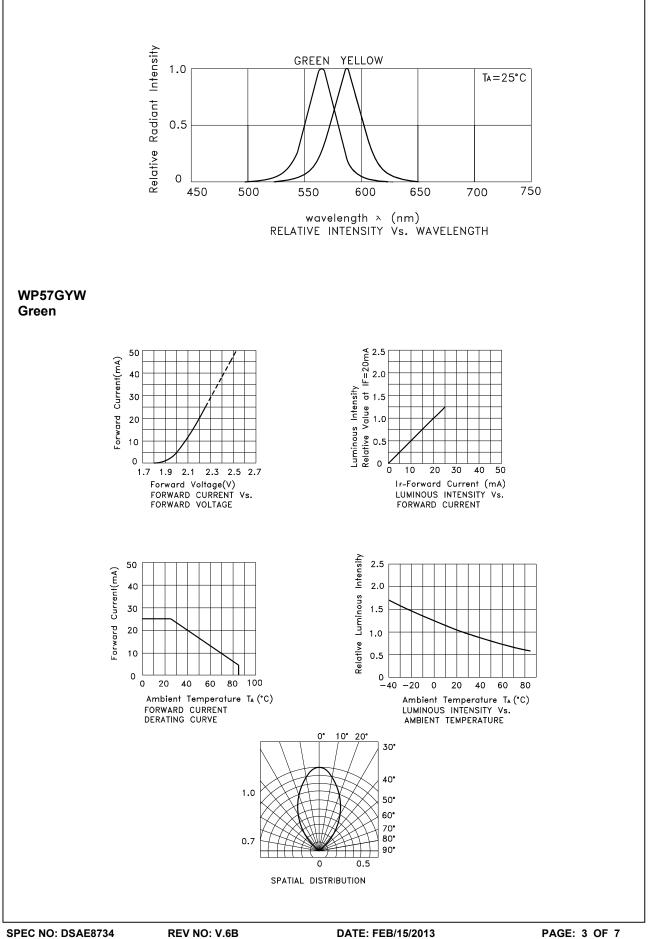
| Parameter | Green | Yellow | Units | | |
|---------------------------------|--|--------|-------|--|--|
| Power dissipation | 62.5 | 75 | mW | | |
| DC Forward Current | 25 | 30 | mA | | |
| Peak Forward Current [1] | 140 | 140 | mA | | |
| Operating / Storage Temperature | -40°C To +85°C | | | | |
| Lead Solder Temperature [2] | d Solder Temperature [2] 260°C For 3 Seconds | | | | |
| Lead Solder Temperature [3] | 260°C For 5 Seconds | | | | |

Notes:

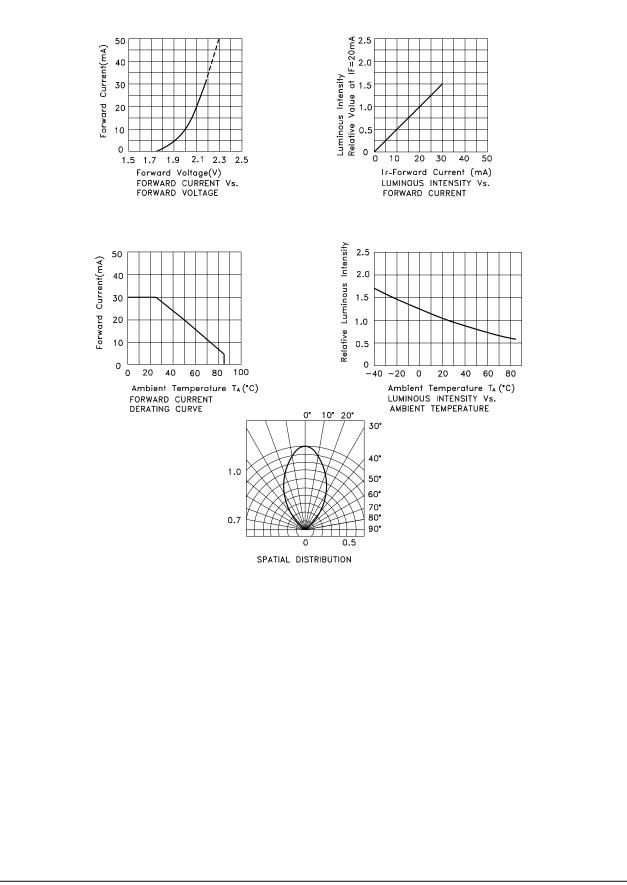
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

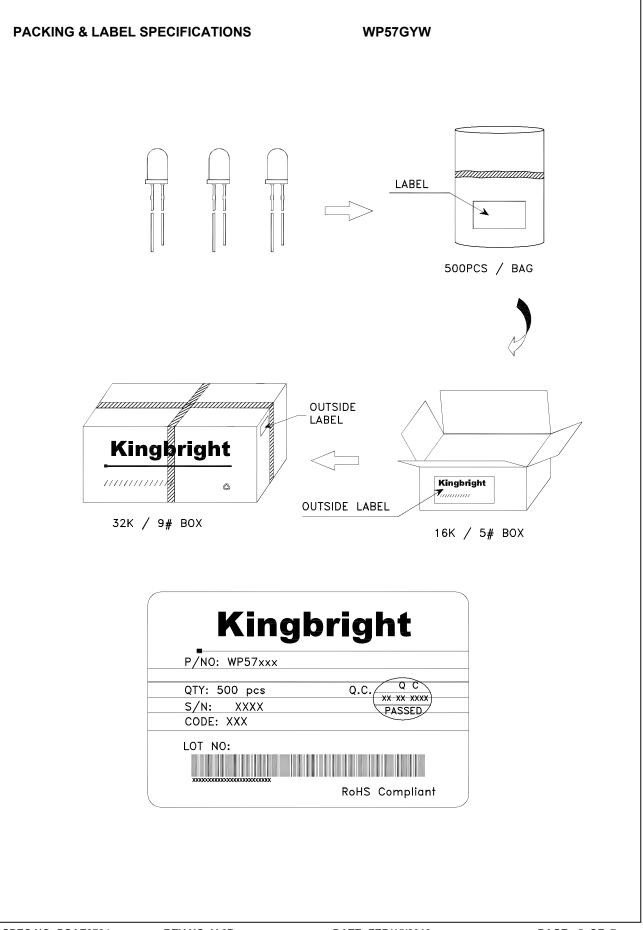
2. 2mm below package base.

3. 5mm below package base.



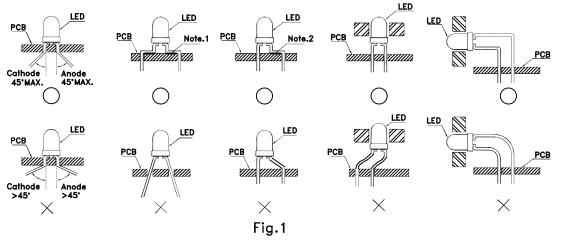
Yellow





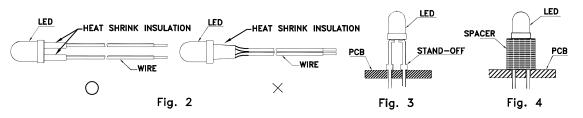
PRECAUTIONS

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)

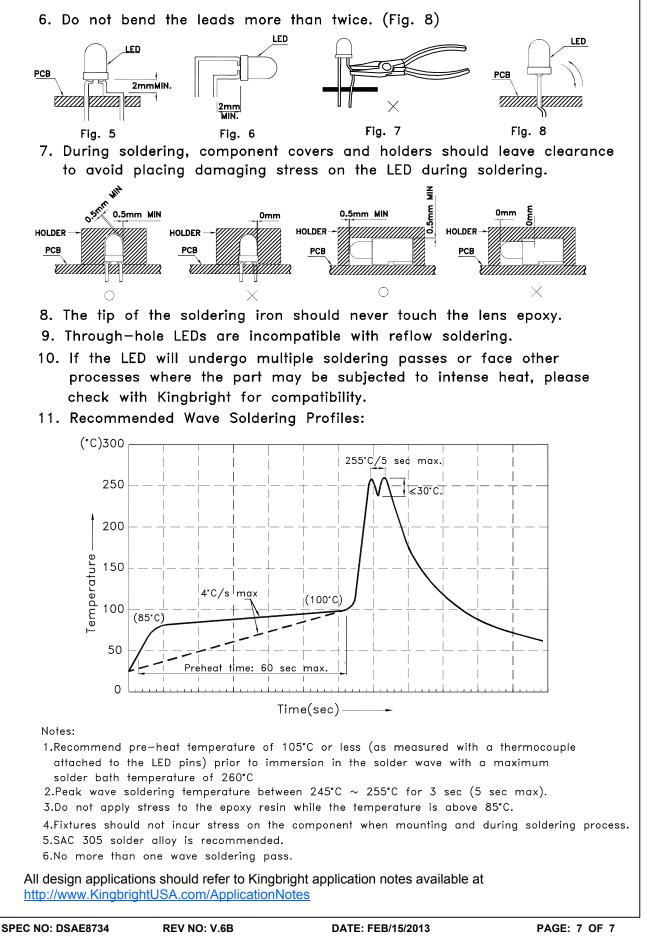


" \bigcirc " Correct mounting method "imes" Incorrect mounting method

- 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)



REV NO: V.6B CHECKED: Allen Liu DATE: FEB/15/2013 DRAWN: Y.Liu