T-1 3/4 (5mm) RIGHT ANGLE LED INDICATOR

Part Number: WP1503CB/YD

Yellow

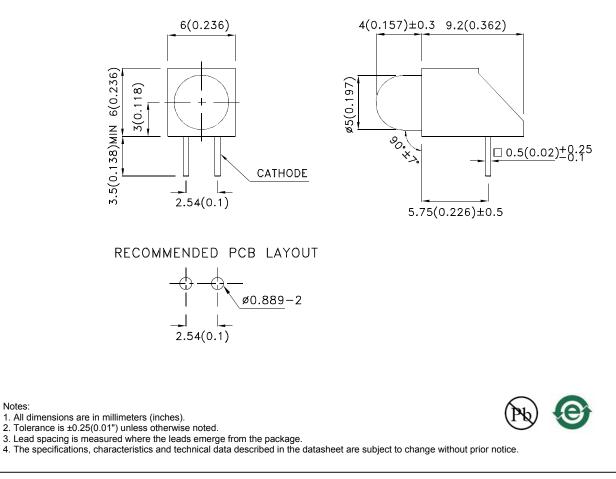
Features

- Low power consumption.
- Versatile mounting on P.C. board or panel.
- T-1 3/4 diameter flangeless package.
- Reliable and rugged.
- Housing UL rating: 94V-0.
- Housing material: type 66 nylon.
- 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: DSAF2064 **APPROVED: WYNEC**

Notes:

REV NO: V.4B CHECKED: Allen Liu

DATE: MAR/16/2013 DRAWN: Q.M.Chen

PAGE: 1 OF 5 ERP: 1102000636

Selection Guide

| Selection Guide | | | | | |
|-----------------|--------------------|-----------------|---------------|------|----------------------|
| Part No. | Dice | Lens Type | lv (mo @ 1 | · | Viewing Angle [1] |
| | | | Min. | Тур. | 201/2 |
| WP1503CB/YD | Yellow (GaAsP/GaP) | Yellow Diffused | 15 | 30 | 60° |

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 | I⊧=20mA |
| λD [1] | Dominant Wavelength | Yellow | 588 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Yellow | 35 | | nm | I⊧=20mA |
| С | Capacitance | Yellow | 20 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Yellow | 2.1 | 2.5 | V | l⊧=20mA |
| lr | Reverse Current | Yellow | | 10 | uA | VR = 5V |

Notes:

1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

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

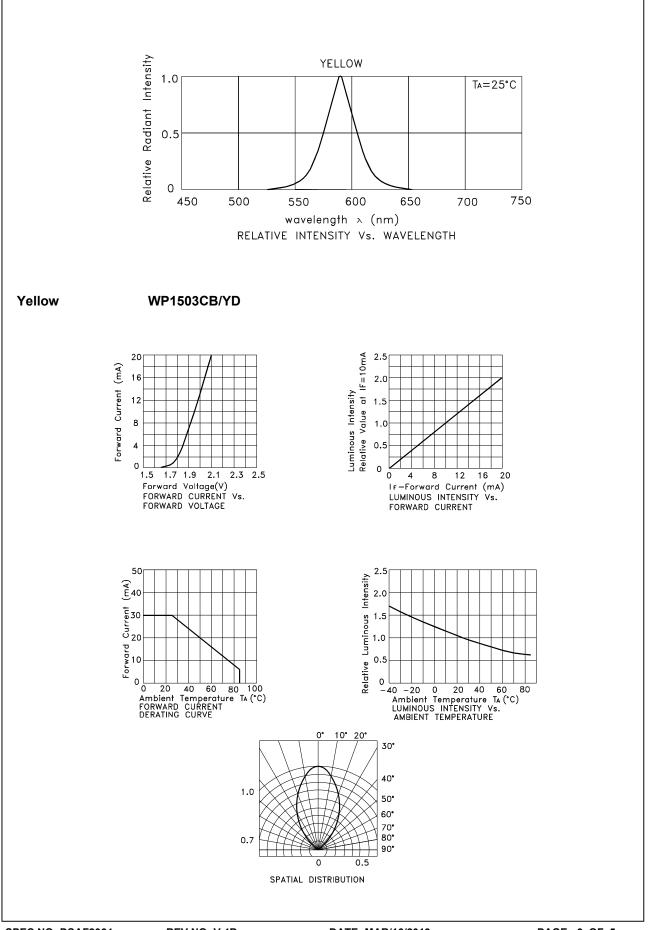
Absolute Maximum Ratings at TA=25°C

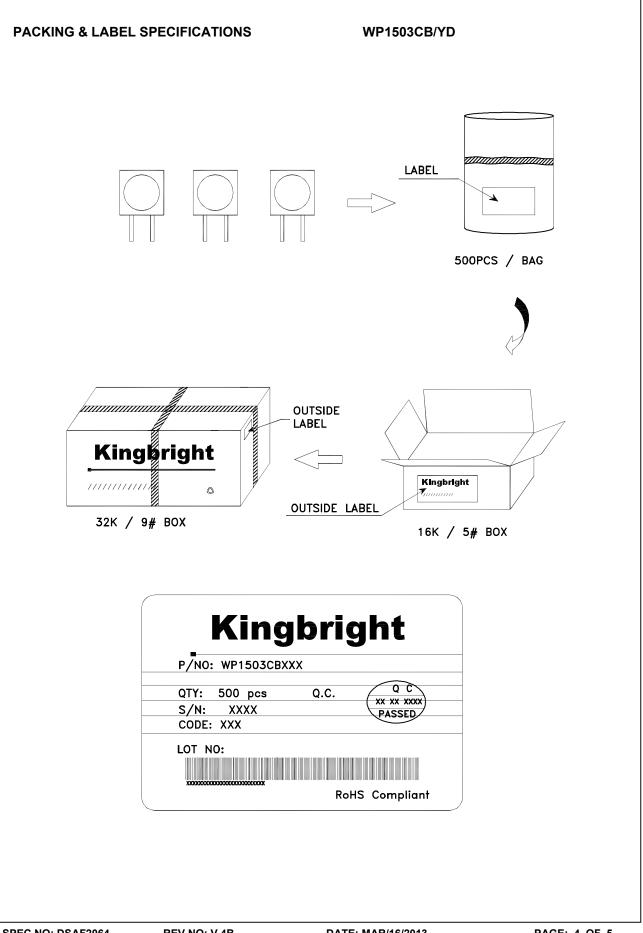
| Parameter | Yellow | Units | | |
|-------------------------------|---------------------|-------|--|--|
| Power dissipation | 75 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 140 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating/Storage Temperature | -40°C To +85°C | | | |
| 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.

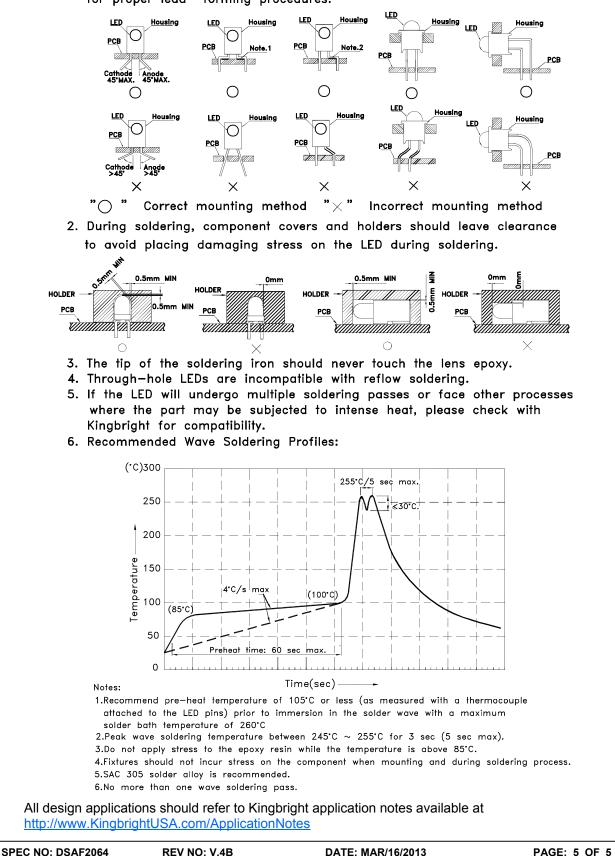
2. 2mm below package base.
3. 5mm below package base.





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.



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