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

Part Number: WP150A9VS/GYW

Green Yellow

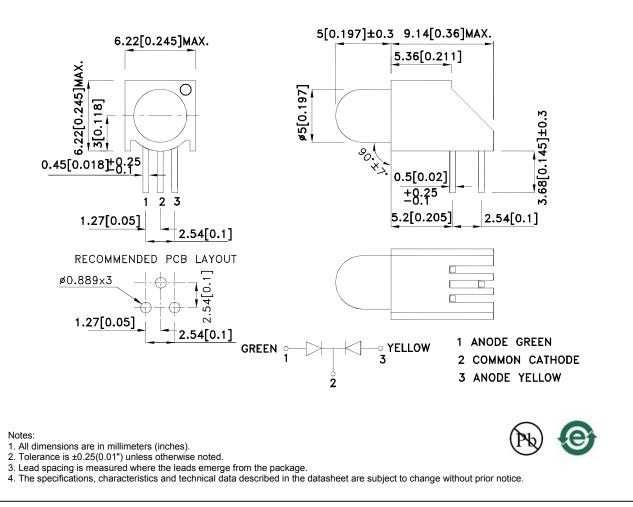
Features

- Pre-trimmed leads for pc board mounting.
- High reliability life measured in years.
- Housing UL rating:94V-0.
- Housing material: type 66 nylon.
- RoHS compliant.

Descriptions

- 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



REV NO: V.6B CHECKED: Allen Liu DATE: MAR/19/2015 DRAWN: L.Q.Xie PAGE: 1 OF 6 ERP: 1102007096

Selection Guide Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. 50 Green (GaP) 18 30° WP150A9VS/GYW White Diffused Yellow (GaAsP/GaP) 8 20

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	I⊧=20mA
lr	Reverse Current	Green Yellow		10 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.

4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

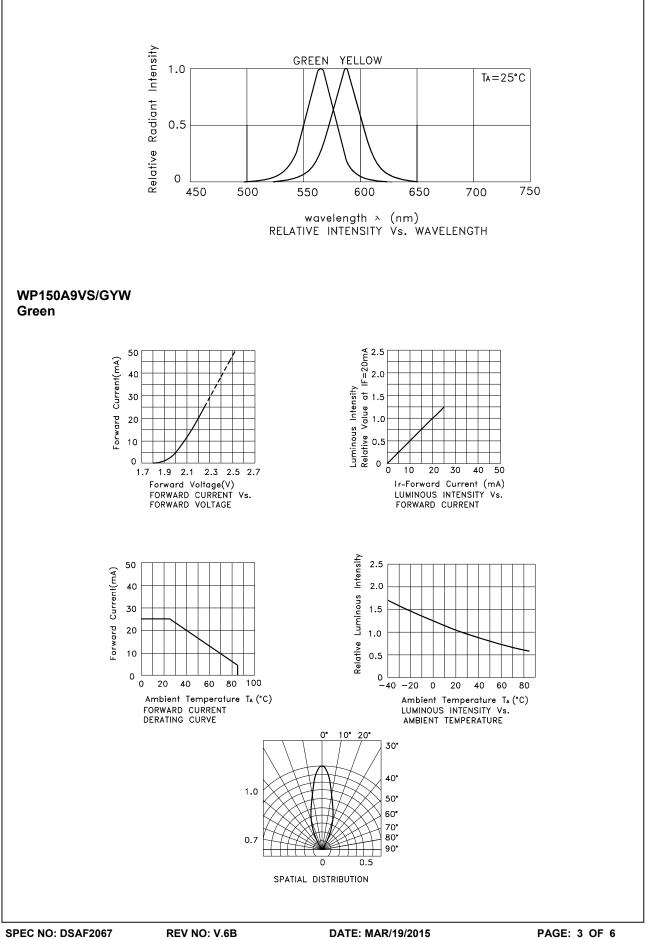
Parameter	Green	Yellow	Units		
Power dissipation	62.5	75	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	140	140	mA		
Reverse Voltage	Į	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	26	260°C For 5 Seconds			

Notes:

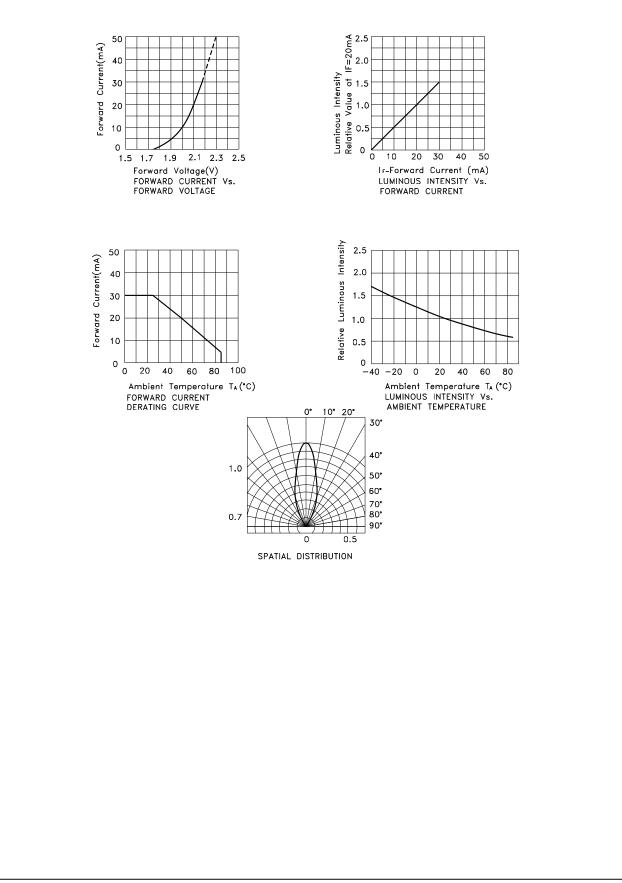
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

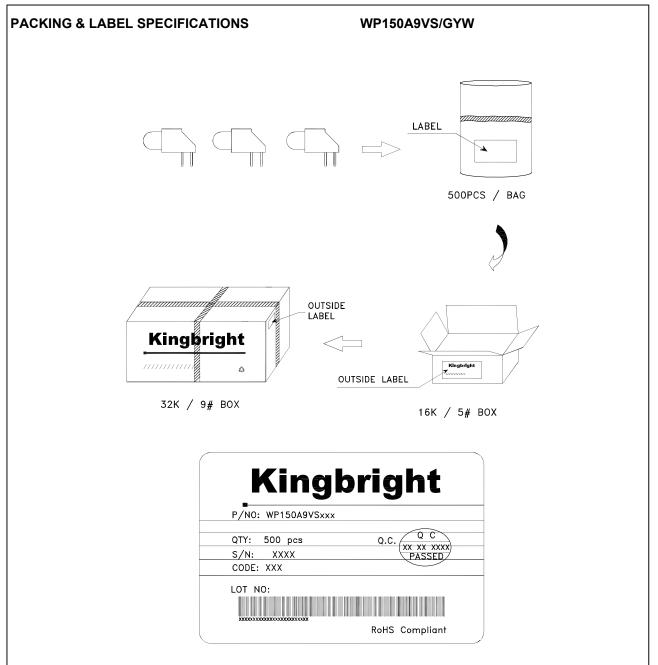
2. 2mm below package base.

3. 5mm below package base.



Yellow





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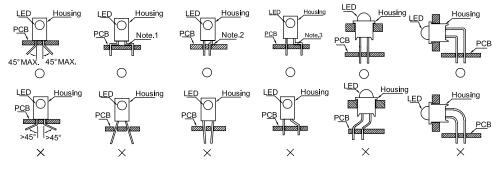
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PRECAUTIONS

1. Storage conditions:

a.Avoid continued exposure to the condensing moisture environment and keep the product away from rapid transitions in ambient temperature.

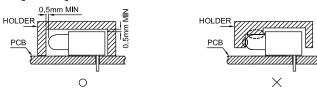
- b.LEDs should be stored with temperature $\leq 30^{\circ}$ C and relative humidity < 60%.
- c.Product in the original sealed package is recommended to be assembled within 72 hours of opening. Product in opened package for more than a week should be baked for 30 (+10/-0) hours at 85 ~ 100°C.
- 2. The 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.



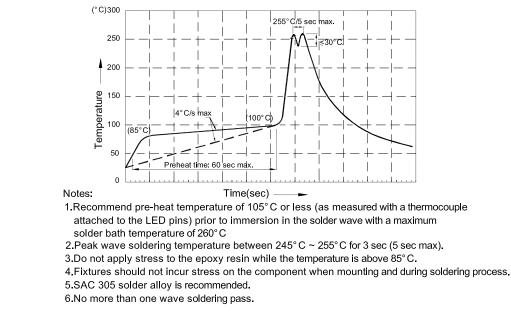
" () " Correct mounting method " imes " Incorrect mounting method

Note 1-3: Do not route PCB trace in the contact area between the leadframe and the PCB to prevent short-circuits.

3. During soldering, component covers and holders should leave clearance to avoid placing damaging stress on the LED during soldering.



- 4. The tip of the soldering iron should never touch the lens epoxy.
- 5. Through-hole LEDs are incompatible with reflow soldering.
- 6. If the LED will undergo multiple soldering passes or face other processes where the part may be subjected to intense heat, please check with Kingbright for compatibility.
- 7. Recommended Wave Soldering Profiles:



DATE: MAR/19/2015 DRAWN: L.Q.Xie

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