T-1 3/4 (5mm) BLINKING LED LAMP

Part Number: WP56BGD

Green

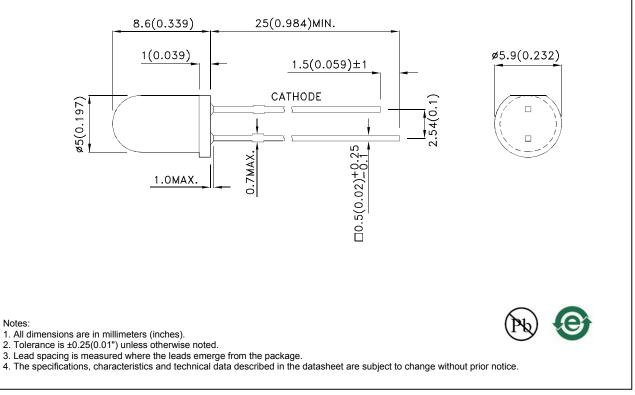
Features

- T-1 3/4 package.
- With built-in blinking IC.
- Operation voltage from 3.5V to 14V.
- Blinking frequency from 3.0Hz to 1.5Hz.
- RoHS compliant.

Description

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

Package Dimensions



REV NO: V.5B CHECKED: Allen Liu DATE: FEB/15/2013 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1101005617

Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) V= 9V		Viewing Angle [1]				
			Min.	Тур.	201/2				
WP56BGD	Green (GaP)	Green Diffused	15	30	60°				

Notes:

1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green		565		nm	
λD	Dominant Wavelength	Green		568		nm	
Δλ1/2	Spectral Line Half-width	Green		30		nm	
lf	Forward Current	Green	8	22		mA	Min:V⊧=3.5V Typ:V⊧=5V
Ison	Supply Current	Green		8		mA	VF=3.5V
Ison	Supply Current	Green		44		mA	VF=14V
f	Blink Frequency	Green	1.5		3	Hz	VF=3.5V~14V

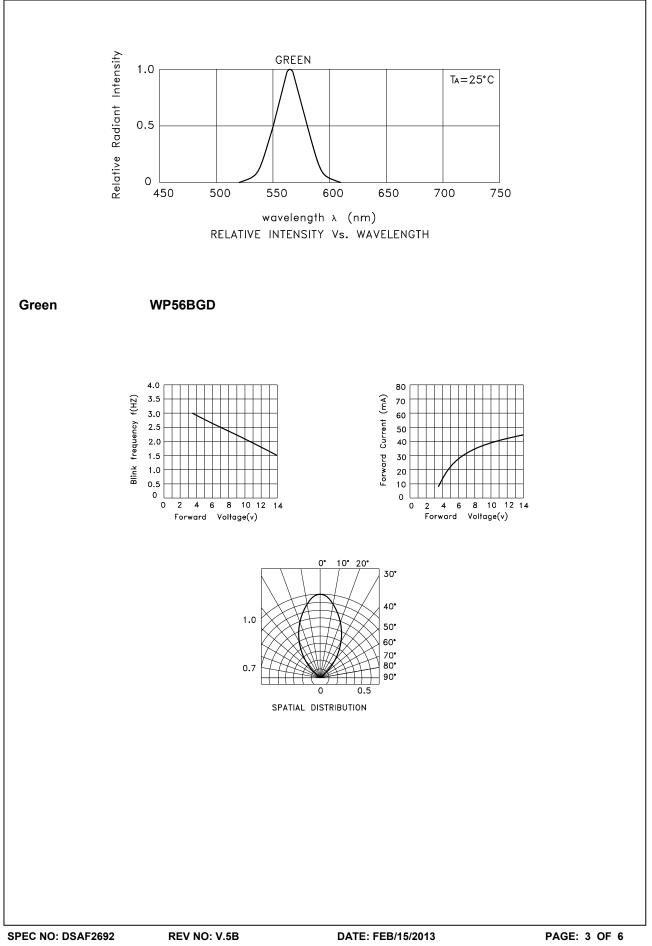
Note:

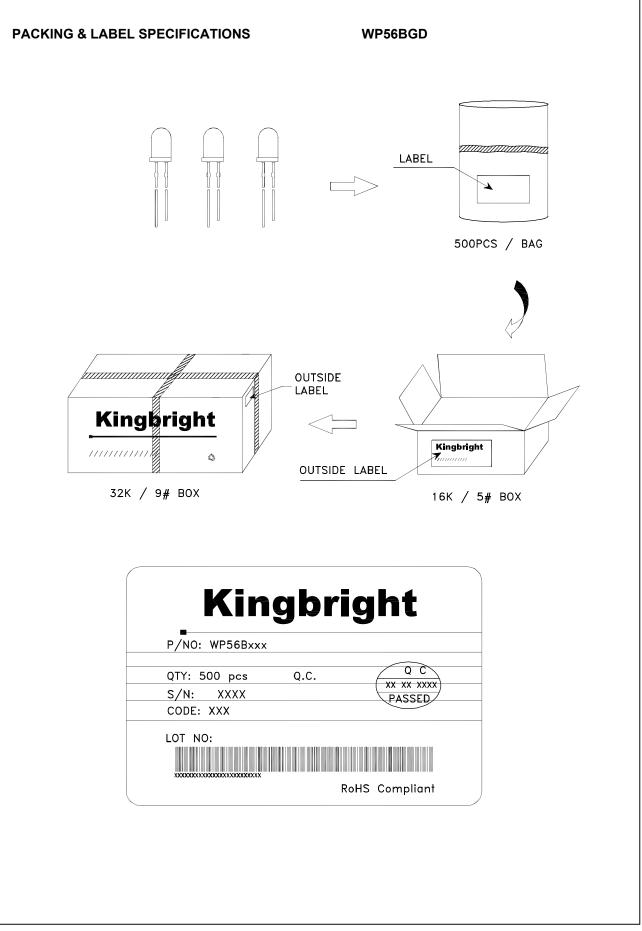
1.Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units		
Power dissipation	310	mW		
Forward Voltage	14	V		
Reverse Voltage	0.5	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:				

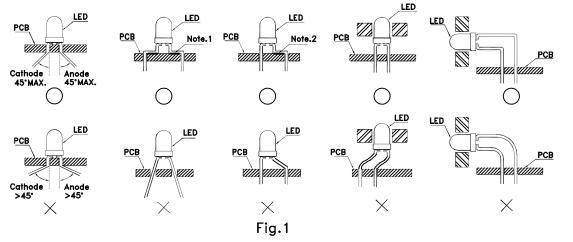
1. 2mm below package base. 2. 5mm below package base.





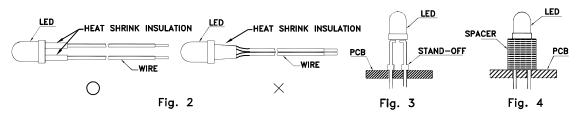
PRECAUTIONS

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

- 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)

