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

Part Number: WP59BL/GEW

HIGH EFFICIENCY RED

GREEN

Features

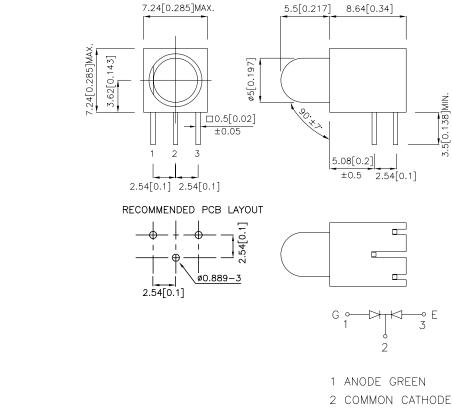
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- 3 LEADS WITH COMMON CATHODE LEAD.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

Description

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

The High Efficiency Red source color devices are made With Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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Notes:

- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.
 Lead spacing is measured where the leads emerge from the package.

4. Specifications are subject to change without notice.

SPEC NO: DSAG6679 APPROVED: J. Lu

REV NO: V.1 CHECKED: Allen Liu DATE: JUL/20/2006 **DRAWN: F.ZHANG**

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Package Dimensions

Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	2 01/2				
WP59BL/GEW	GREEN (GaP)	WHITE DIFFUSED	18	50	60°				
	HIGH EFFICIENCY RED (GaAsP/GaP)		18	60					

Notes:

1.01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green High Efficiency Red	565 627		nm	I _F =20mA
λD [1]	Dominant Wavelength	Green High Efficiency Red	568 625		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	Green High Efficiency Red	30 45		nm	I _F =20mA
С	Capacitance	Green High Efficiency Red	15 15		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Green High Efficiency Red	2.2 2.0	2.5 2.5	V	I _F =20mA
IR	Reverse Current	Green High Efficiency Red		10 10	uA	VR = 5V

Notes:

Wavelength: +/-1nm.
 Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Parameter	Green	High Efficiency Red	Units		
Power dissipation	62.5	75	mW		
DC Forward Current	25	30	mA		
Peak Forward Current [1]	140	160	mA		
Reverse Voltage	Ę	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				

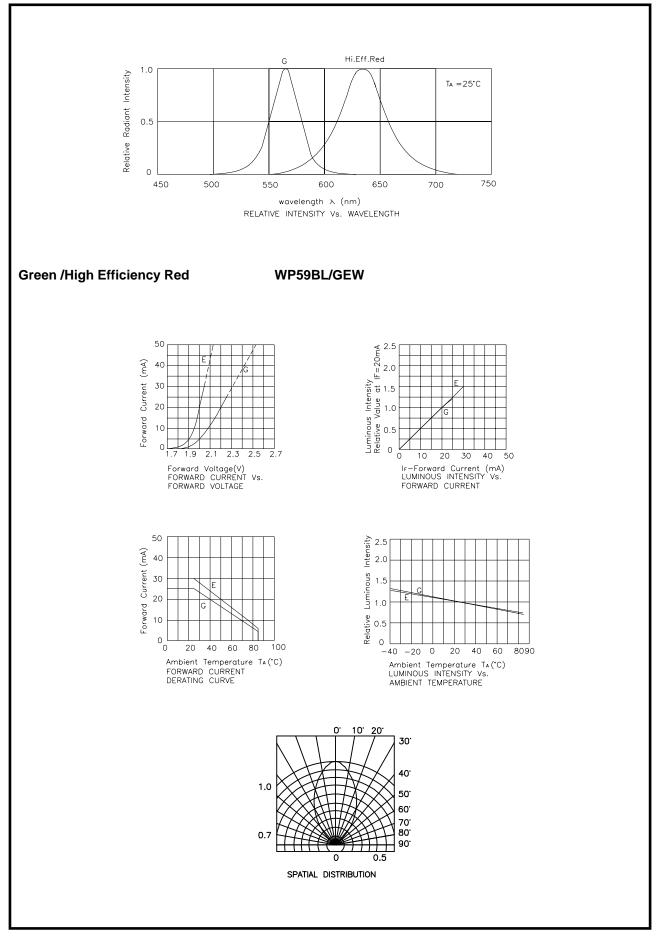
Notes:

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

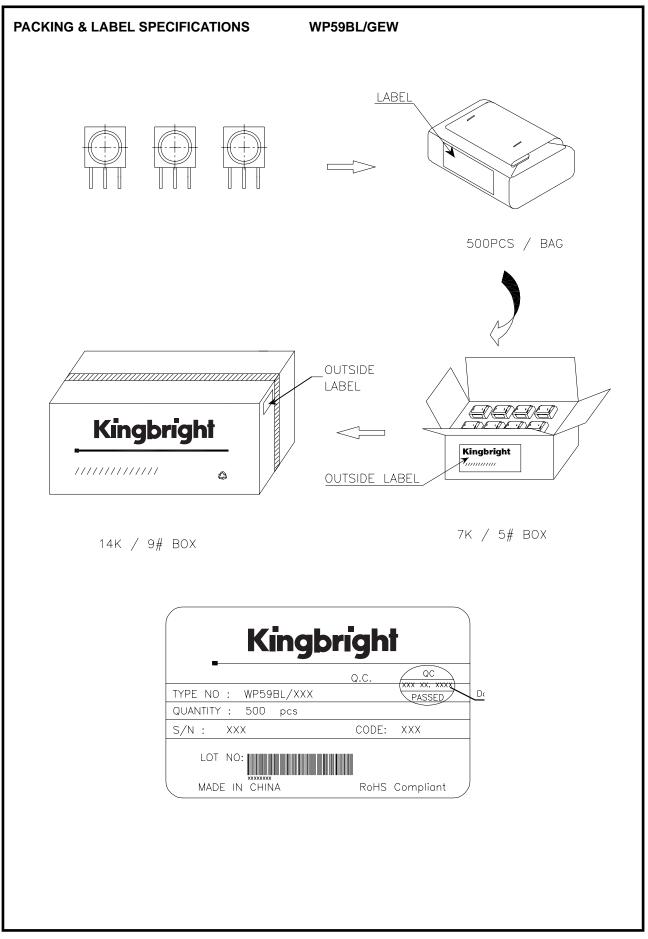
2. 2mm below package base.

3. 5mm below package base.

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Mouser Electronics

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