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

Features

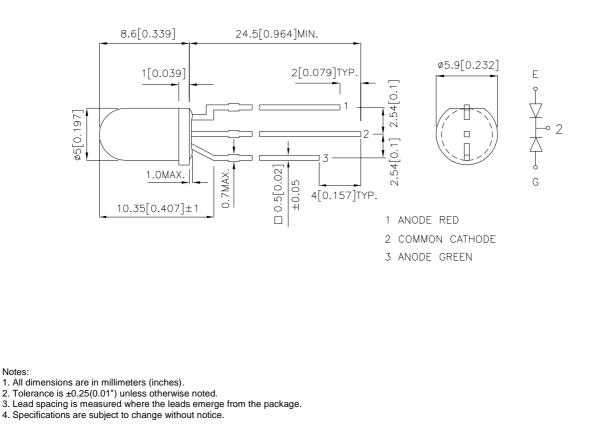
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •3 LEADS WITH ONE COMMON LEAD.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

Description

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

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

Package Dimensions



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Selection G	uide				
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 01/2
WP59EGC	HIGH EFFICIENCY RED (GaAsP/GaP)	WATER CLEAR	70	150	24°
	GREEN (GaP)	WATER CLEAR	70	150	24

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

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

Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Green	Units		
Power dissipation	105	105	mW		
DC Forward Current	30	25			
Peak Forward Current [1]	160	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				

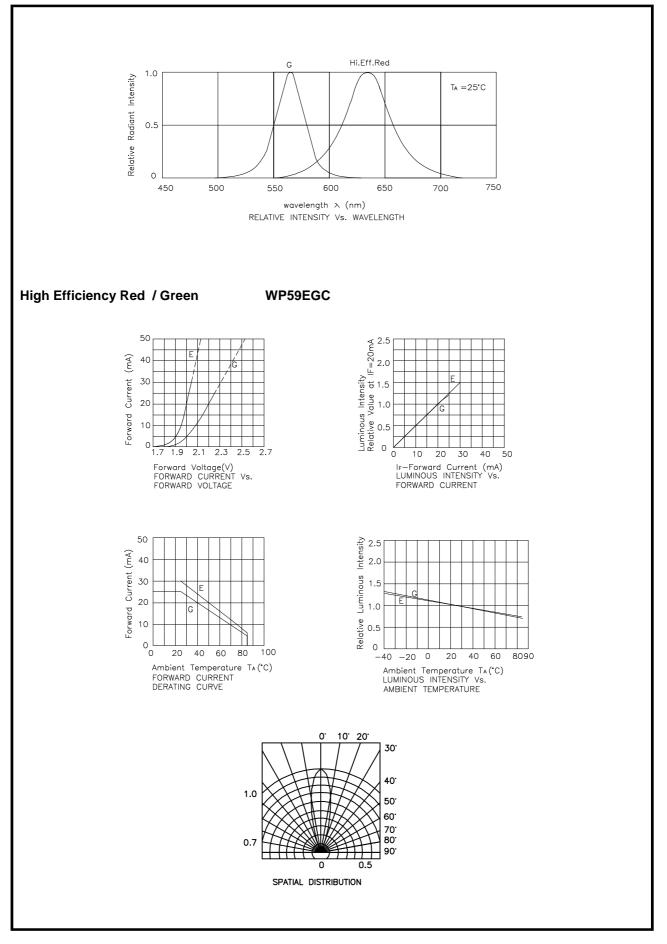
Notes:

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

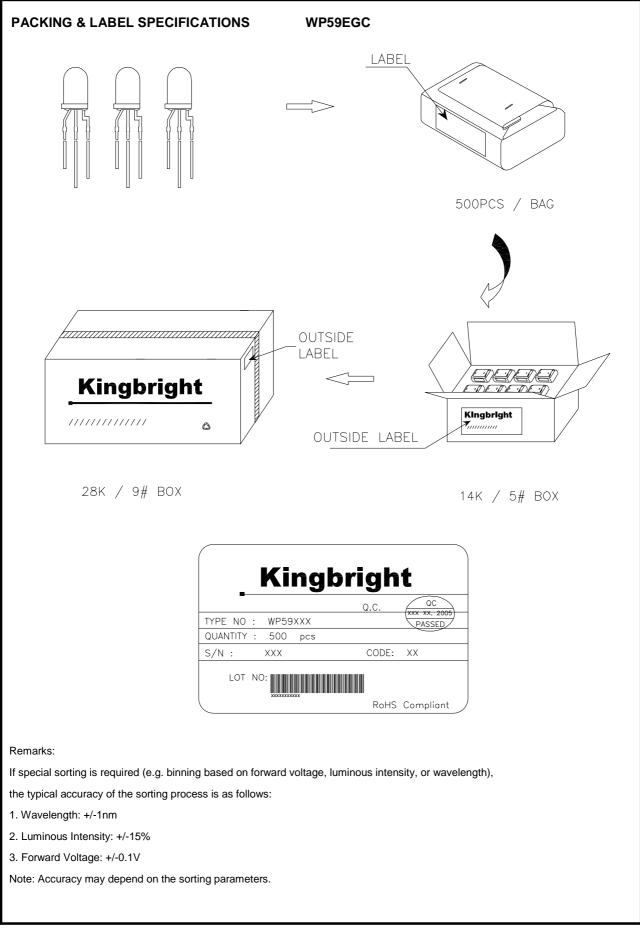
2. 2mm below package base.

3. 5mm below package base.

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