# **Kingbright**

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

P/N: L-59EYW

HIGH EFFICIENCY RED YELLOW

#### **Features**

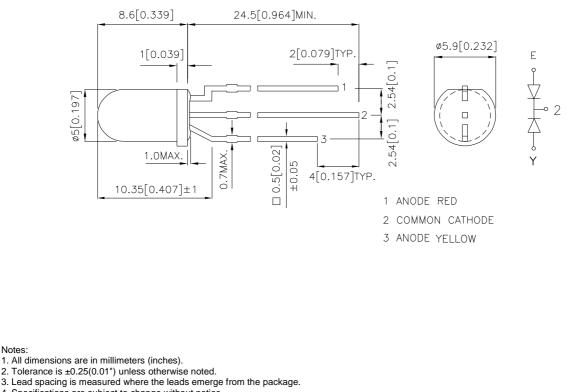
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •3 LEADS WITH ONE COMMON LEAD.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

#### Description

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

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

### **Package Dimensions**



4. Specifications are subject to change without notice.

Notes:

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Selection Gu	ide				
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 <del>0</del> 1/2
L-59EYW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	18	60	60°
	YELLOW (GaAsP/GaP)	WHITE DIFF03ED	18	40	60

Note:

1.  $\theta$ 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 Yellow	627 590		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red Yellow	625 588		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Yellow	45 35		nm	IF=20mA
С	Capacitance	High Efficiency Red Yellow	15 20		pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red Yellow	2.0 2.1	2.5 2.5	V	IF=20mA
Ir	Reverse Current	High Efficiency Red Yellow		10 10	uA	Vr = 5V

### Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Yellow	Units		
Power dissipation	105	105	mW		
DC Forward Current	30	30	mA		
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:

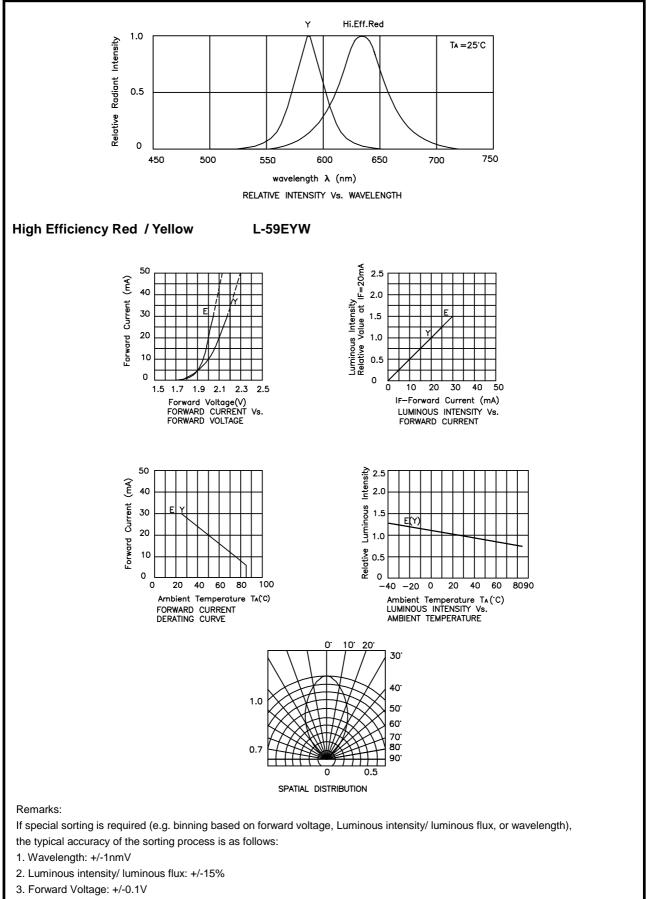
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

3. 5mm below package base.

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Note: Accuracy may depend on the sorting parameters.

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