

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

PRELIMINARY SPEC

P/N: L-150A9VS/1EYW

HIGH EFFICIENCY RED

YELLOW

### **Features**

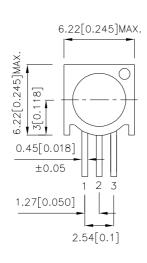
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- 3 LEADS WITH COMMON CATHODE LEAD.
- I.C. COMPATIBLE.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- •RoHS COMPLIANT.

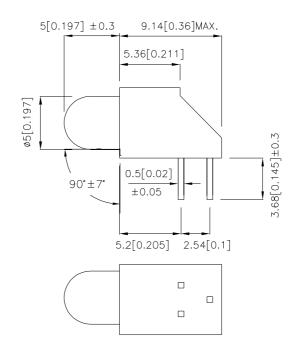
## **Description**

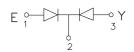
The High Efficiency Red source color devices are made With Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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

# **Package Dimensions**







- 1 ANODE RED
- 2 COMMON CATHODE
- 3 ANODE YELLOW

#### Notes:

- All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. Specifications are subject to change without notice.

SPEC NO: DSAE7227 APPROVED: J. Lu REV NO: V.4 CHECKED: Allen Liu DATE: NOV/15/2005 DRAWN: F.LI PAGE: 1 OF 3

# **Kingbright**

# **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
		,,	Min.	Тур.	<b>2</b> 01/2
L-150A9VS/1EYW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFLICED	18	50	30°
	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	7	30	

# 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	I <sub>F</sub> =20mA
λD	Dominant Wavelength	High Efficiency Red Yellow	625 588		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red Yellow	45 35		nm	I <sub>F</sub> =20mA
С	Capacitance	High Efficiency Red Yellow	15 20		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	High Efficiency Red Yellow	2.0 2.1	2.5 2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	High Efficiency Red Yellow		10 10	uA	V <sub>R</sub> = 5V

# Absolute Maximum Ratings at T<sub>A</sub>=25°C

Parameter	High Efficiency Red Yellow		Units		
Power dissipation	105	105	mW		
DC Forward Current	rent 30 30		mA		
Peak Forward Current [1]	160	140	mA		
Reverse Voltage		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				

- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

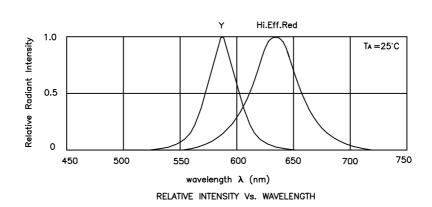
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APPROVED: J. Lu

**CHECKED: Allen Liu** 

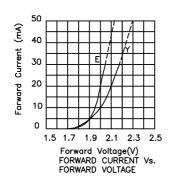
<sup>1.01/2</sup> is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

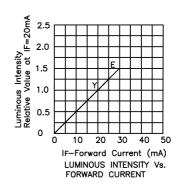
# **Kingbright**

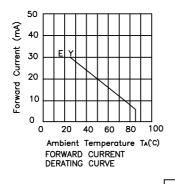


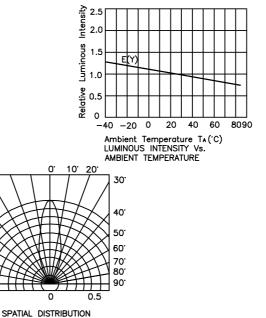
# High Efficiency Red / Yellow

## L-150A9VS/1EYW









## Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity/ luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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