

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

PRELIMINARY SPEC

P/N: L-150A9VS/1GYW

GREEN/YELLOW

#### **Features**

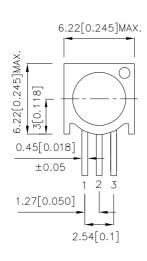
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- 3 LEADS WITH COMMON CATHODE LEAD.
- I.C. COMPATIBLE.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- UL RATING: 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

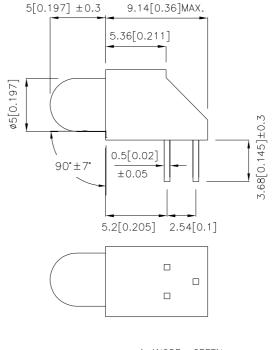
#### **Description**

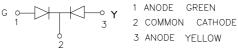
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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

#### **Package Dimensions**







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

SPEC NO: DSAE7144 APPROVED: J. Lu

**REV NO: V.4 CHECKED: Allen Liu**  **DATE: NOV/15/2005** DRAWN: F.LI

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# **Kingbright**

#### **Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
		,,	Min.	Тур.	<b>2</b> 01/2
L-150A9VS/1GYW	GREEN (GaP)	WHITE DIFFLICED	10	45	- 30°
	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	7	30	

#### Note

### Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green Yellow	565 590		nm	I <sub>F</sub> =20mA
λD	Dominant Wavelength	Green Yellow	568 588		nm	I <sub>F</sub> =20mA
Δλ1/2	Spectral Line Half-width	Green Yellow	30 35		nm	I <sub>F</sub> =20mA
С	Capacitance	Green Yellow	15 20		pF	V <sub>F</sub> =0V;f=1MHz
V <sub>F</sub>	Forward Voltage	Green Yellow	2.2 2.1	2.5 2.5	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	Green Yellow		10 10	uA	V <sub>R</sub> = 5V

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

Parameter	Green	Yellow	Units		
Power dissipation	105	105 105			
DC Forward Current	25	30	mA		
Peak Forward Current [1]	140	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				

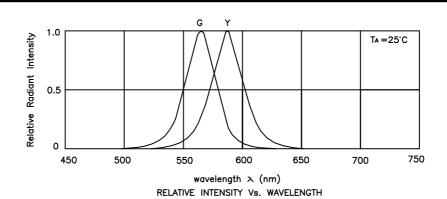
#### Notes:

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

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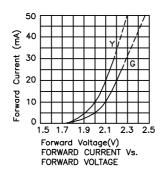
<sup>1.01/2</sup> is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

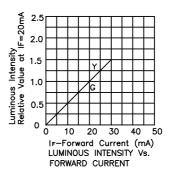
## Kingbright

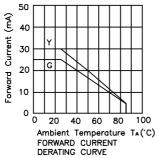


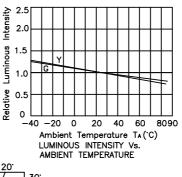
#### **Green / Yellow**

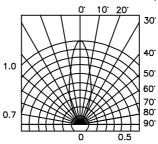
#### L-150A9VS/1GYW











#### SPATIAL DISTRIBUTION

#### 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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