

### PRELIMINARY SPEC

P/N: L-150A9VS/1GYW

GREEN / YELLOW

### Features

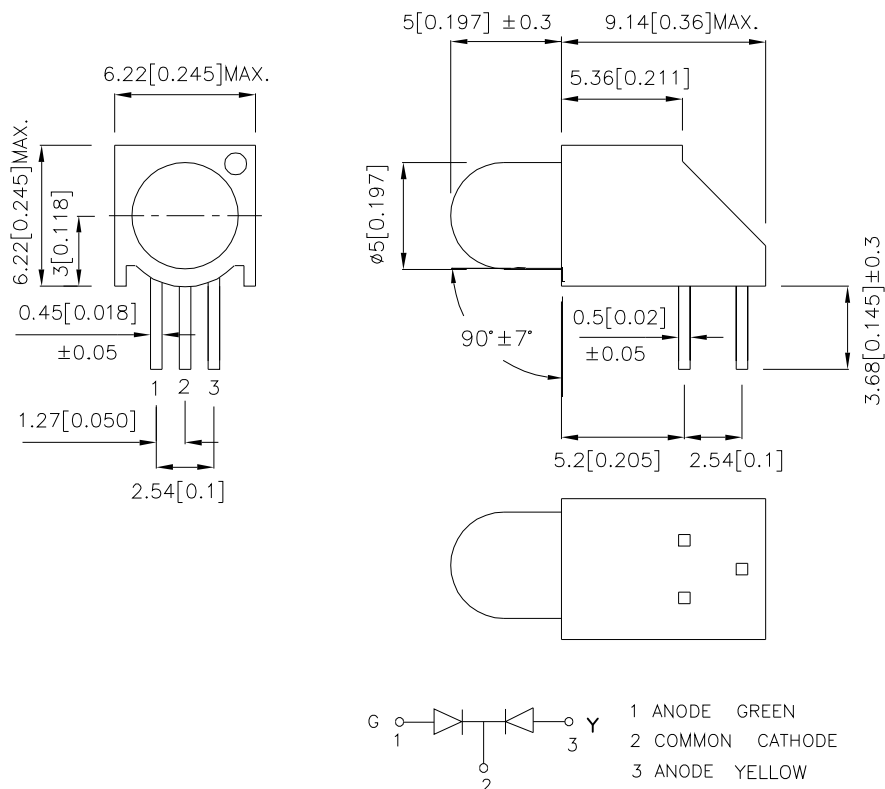
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- 3 LEADS WITH COMMON CATHODE LEAD.
- I.C. COMPATIBLE.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY - LIFE MEASURED IN YEARS.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.

### 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



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-150A9VS/1GYW	GREEN (GaP)	WHITE DIFFUSED	10	45	30°
	YELLOW (GaAsP/GaP)		7	30	

Note:

1.θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at TA=25°C

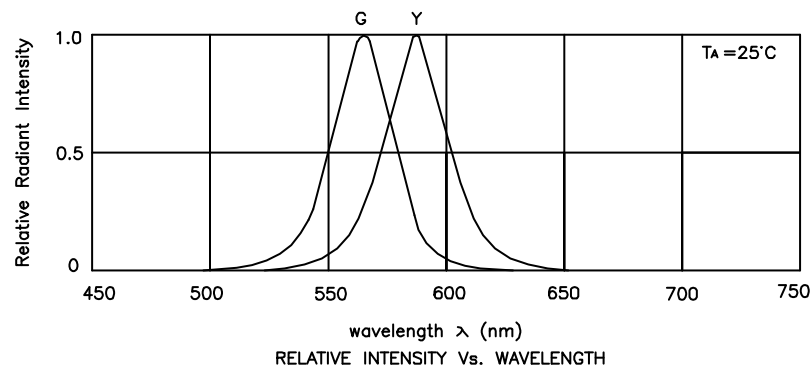
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
$\lambda_{peak}$	Peak Wavelength	Green Yellow	565 590		nm	IF=20mA
$\lambda_D$	Dominant Wavelength	Green Yellow	568 588		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Green Yellow	30 35		nm	IF=20mA
C	Capacitance	Green Yellow	15 20		pF	VF=0V;f=1MHz
VF	Forward Voltage	Green Yellow	2.2 2.1	2.5 2.5	V	IF=20mA
IR	Reverse Current	Green Yellow		10 10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

Parameter	Green	Yellow	Units
Power dissipation	105	105	mW
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		

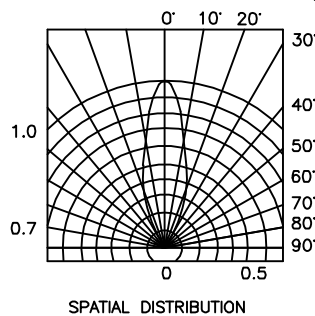
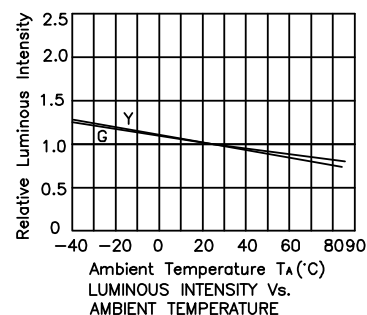
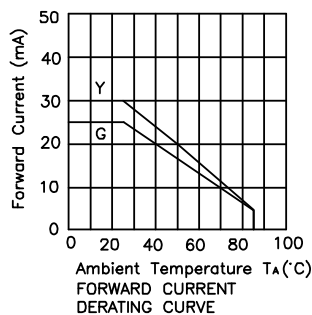
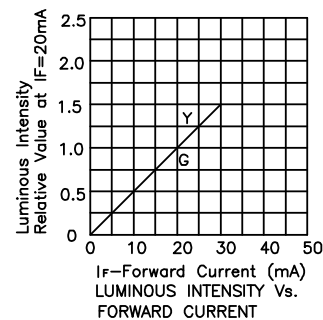
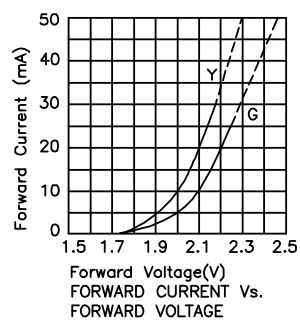
Notes:

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



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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:  $\pm 1\text{nm}$
2. Luminous Intensity/ luminous flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.