

L-57GYW

GREEN/YELLOW

Features

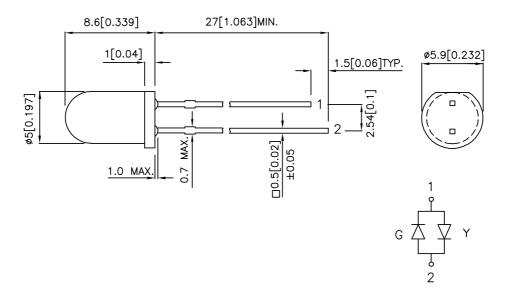
- •LOW POWER CONSUMPTION.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- •RoHS COMPLIANT.

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 ±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.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	201/2
L-57GYW	GREEN (GaP)	WHITE DIFFUSED	10	20	- 60°
	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	4	10	

Note

Electrical / Optical Characteristics at Ta=25°C

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

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		
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				

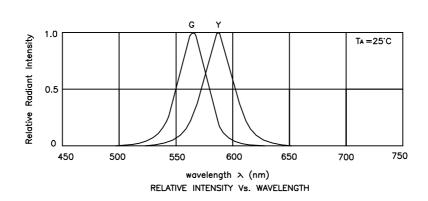
Notes:

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

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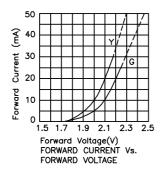
^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

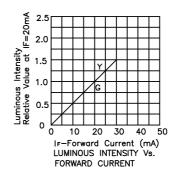
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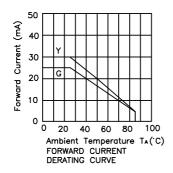


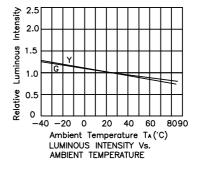
Green / Yellow

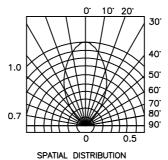
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Remarks:

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

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

Note: Accuracy may depend on the sorting parameters.

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