P/N: L-59GYW

GREEN / YELLOW

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Features

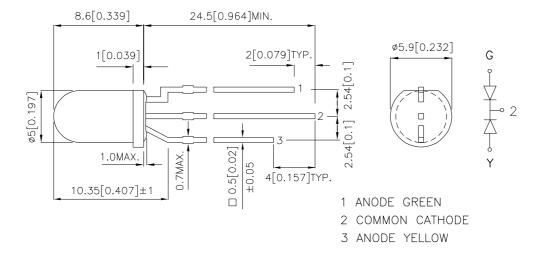
- •UNIFORM LIGHT OUTPUT.
- •LOW POWER CONSUMPTION.
- •3 LEADS WITH ONE COMMON LEAD.
- •I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- RoHS COMPLIANT.

Description

The 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



Notes:

- 1. 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.

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Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
L-59GYW	GREEN (GaP)	WILLE DIECHOED	18	50	60°
	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	18	40	

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
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:

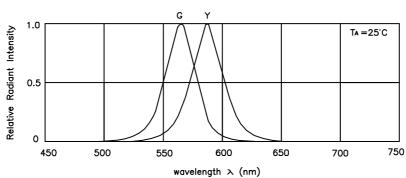
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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

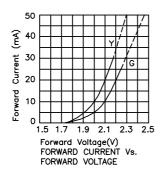
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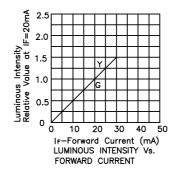


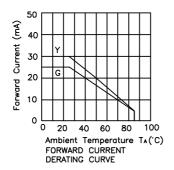
RELATIVE INTENSITY Vs. WAVELENGTH

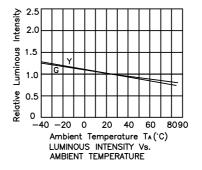
Green / Yellow

L-59GYW

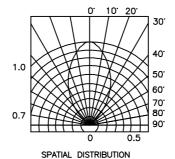








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Remarks

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: +/-1nmV
- 2. Luminous intensity/ luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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