

P/N: L-1387QMP/1GYW GREEN / YELLOW

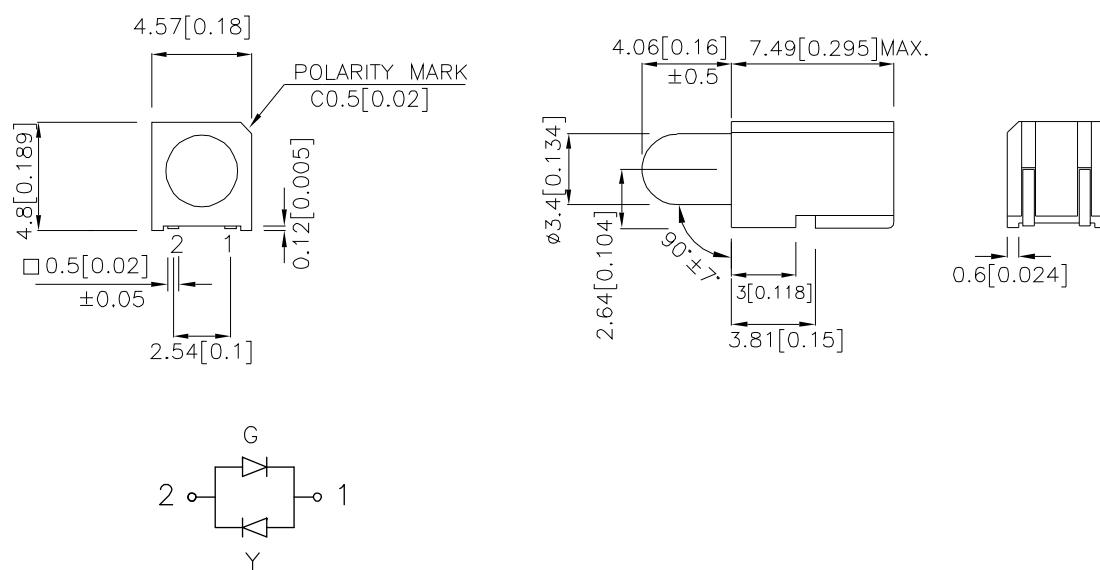
Features

- SURFACE MOUNT TYPE.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY LIFE MEASURED IN YEARS.
- PACKAGE: 1000PCS / REEL.
- HOUSING MATERIAL: PPA
- HIGH TEMPERATURE RESISTANT HOUSING.
- UL RATING : 94V-0.
- 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 ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	I _v (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
L-1387QMP/1GYW	GREEN (GaP)	WHITE DIFFUSED	7	20	60°
	YELLOW (GaAsP/GaP)		4	10	

Note:

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

Electrical / Optical Characteristics at T_A=25°C

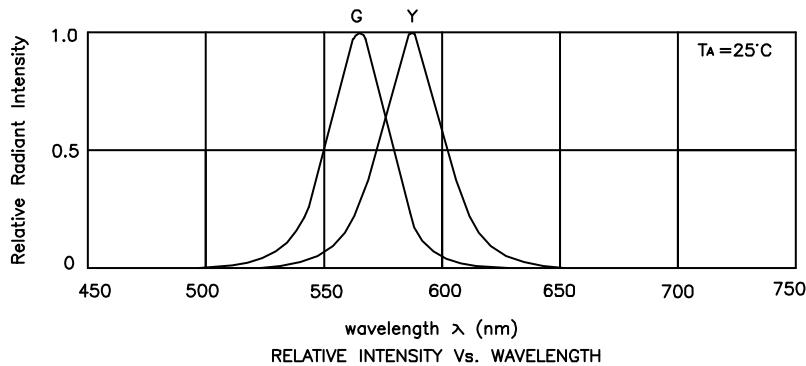
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ _{peak}	Peak Wavelength	Green Yellow	565 590		nm	I _F =20mA
λ _D	Dominant Wavelength	Green Yellow	568 588		nm	I _F =20mA
Δλ1/2	Spectral Line Half-width	Green Yellow	30 35		nm	I _F =20mA
C	Capacitance	Green Yellow	15 20		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	Green Yellow	2.2 2.1	2.5 2.5	V	I _F =20mA

Absolute Maximum Ratings at T_A=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		

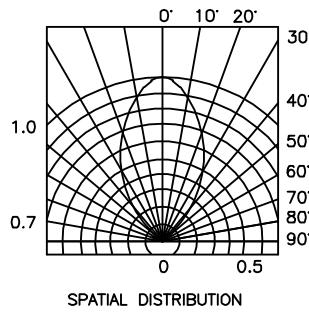
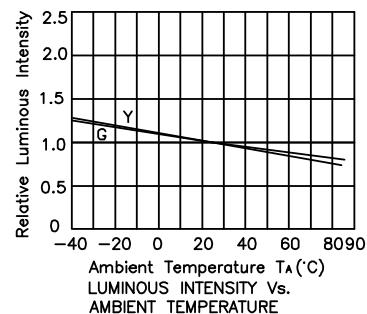
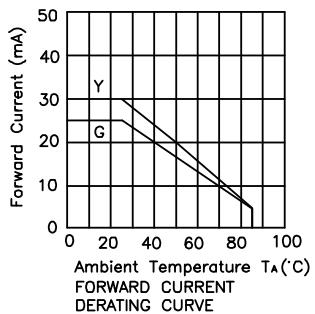
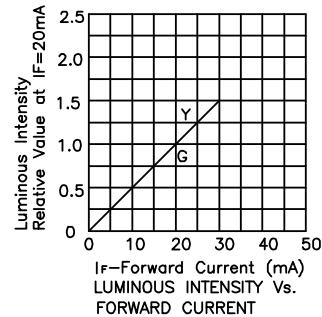
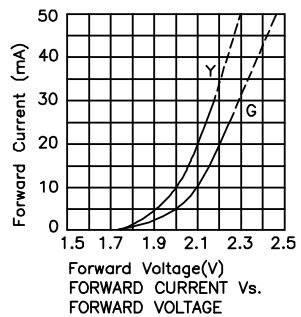
Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.



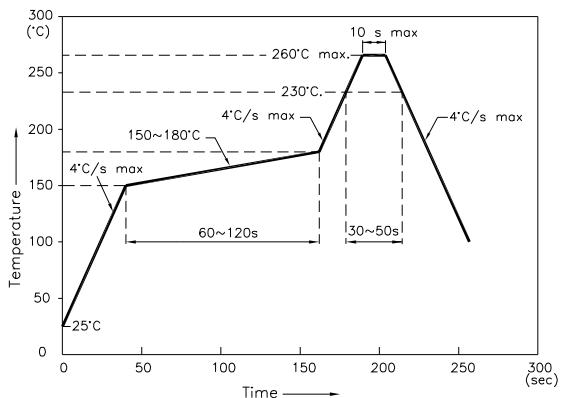
Green / Yellow

L-1387QMP/1GYW

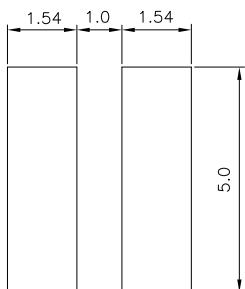


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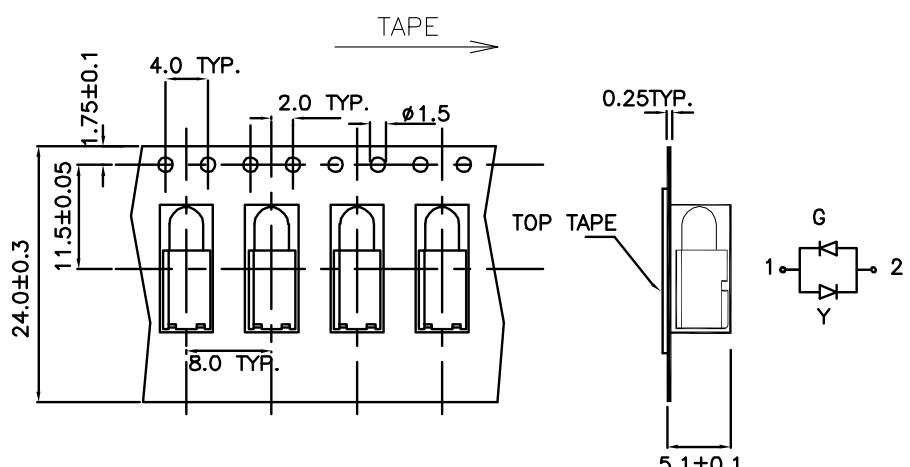
Reflow Soldering Profile For Lead-free SMT Process.



Recommended Soldering Pattern (Units : mm)



Tape Specifications (Units : mm)



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.