L1384QMP/GD GREEN

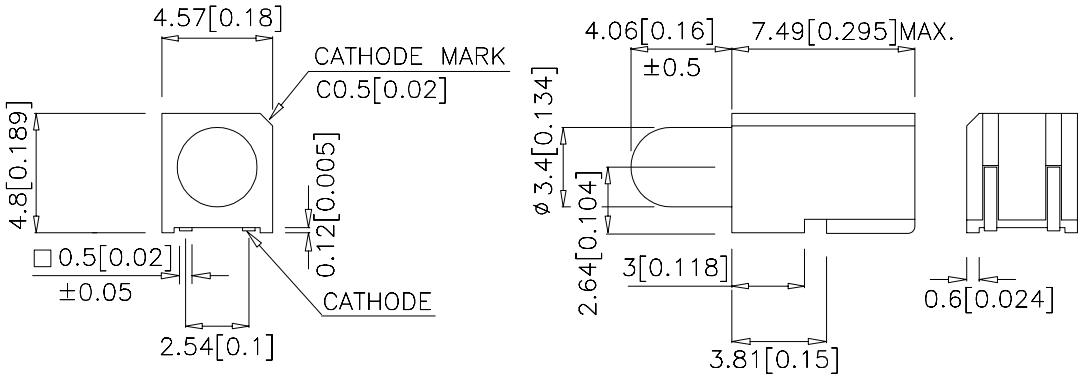
Features

- ●PRE-TRIMMED LEADS FOR PC MOUNTING.
- ●CAN BE ASSEMBLED WITH EACH OTHER.
- ●I.C. COMPATIBLE.
- ●BLACK CASE ENHANCES CONTRAST RATIO.
- ●WIDE VIEWING ANGLE.
- ●HIGH RELIABILITY LIFE MEASURED IN YEARS.
- ●HOUSING MATERIAL: PPA
- ●PACKAGE : 1000PCS / REEL.

Description

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

Package Dimensions



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA		Viewing Angle
			Min.	Typ.	2θ1/2
L1384QMP/GD	GREEN (GaP)	GREEN DIFFUSED	8	15	60°

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

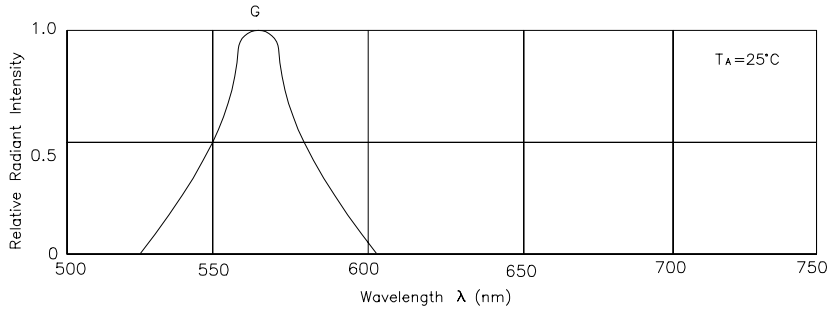
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	565		nm	IF=20mA
λ D	Dominate Wavelength	Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Green	30		nm	IF=20mA
C	Capacitance	Green	15		pF	VF=0V;f=1MHz
V_F	Forward Voltage	Green	2.2	2.5	V	IF=20mA
I_R	Reverse Current	Green		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

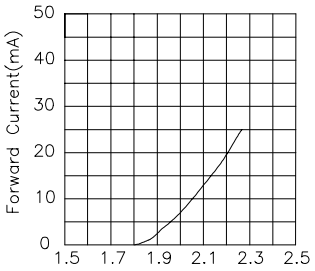
Parameter	Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	140	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

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

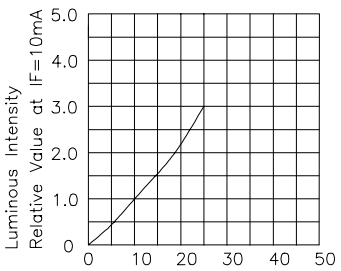


RELATIVE INTENSITY Vs. WAVELENGTH

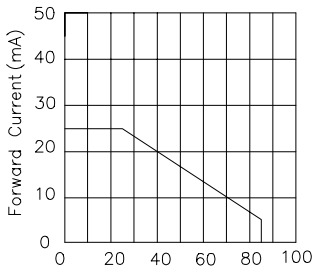
Green **L1384QMP/GD**



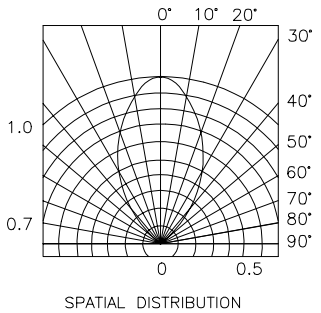
FORWARD CURRENT Vs
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT



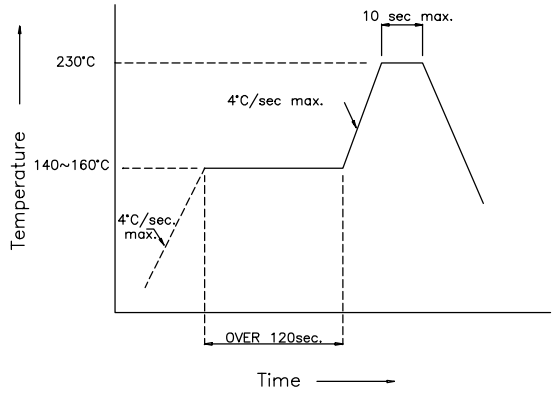
FORWARD CURRENT
DERATING CURVE



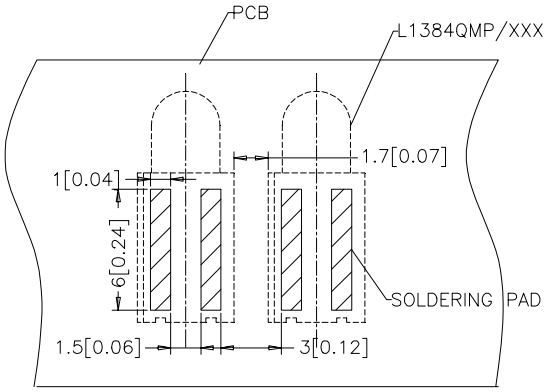
SPATIAL DISTRIBUTION

L1384QMP/GD
SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process."



Recommended Soldering Pattern



Tape Specifications