

Features

- 2.0mmx1.2mm SMT LED, 1.1mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.

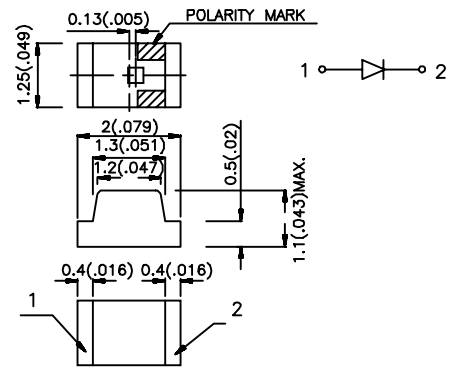
KP-2012LSGC SUPER BRIGHT GREEN

KP-2012LSGD SUPER BRIGHT GREEN

Package Dimensions

Description

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



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1 (0.004") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 2 mA		Viewing Angle
			Min.	Typ.	θ1/2
KP-2012LSGC	SUPER BRIGHT GREEN (GaP)	WATER CLEAR	0.3	0.8	120°
KP-2012LSGD	SUPER BRIGHT GREEN (GaP)	GREEN DIFFUSED	0.3	0.8	120°

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

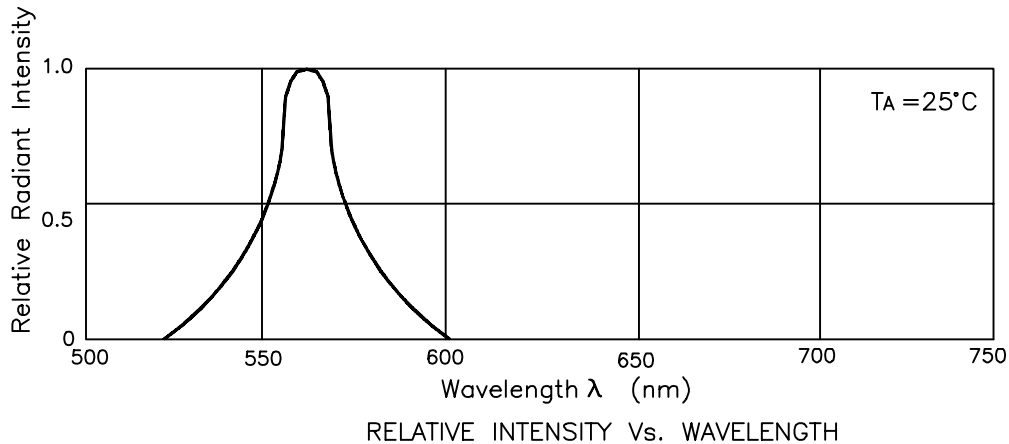
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Green	565		nm	IF=2mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	Super Bright Green	30		nm	IF=2mA
C	Capacitance	Super Bright Green	45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Super Bright Green	1.9	2.2	V	IF=2mA
I _R	Reverse Current	All	10		uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

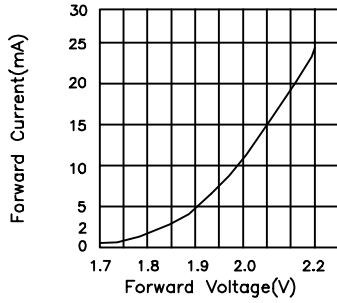
Parameter	Super Bright Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

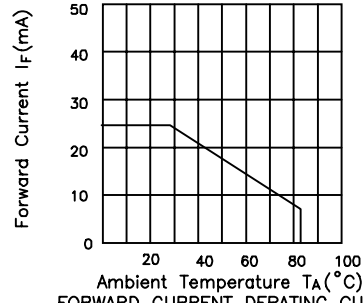
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



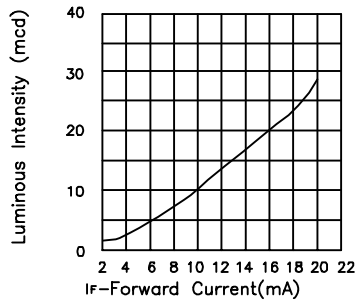
Super Bright Green KP-2012LSGC, KP-2012LSGD



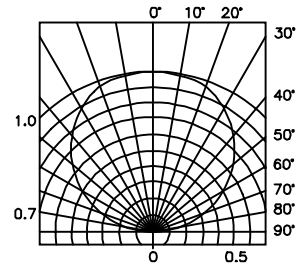
FORWARD CURRENT Vs. FORWARD VOLTAGE



FORWARD CURRENT DERATING CURVE

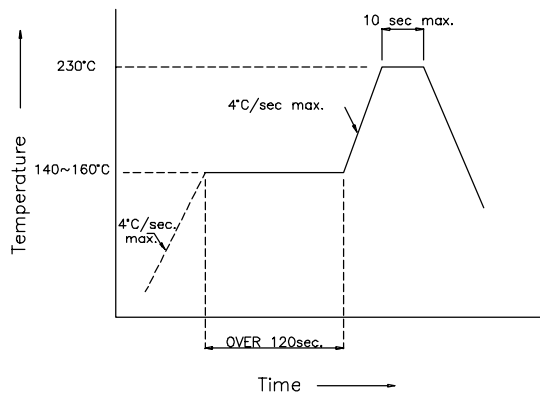


LUMINOUS INTENSITY Vs. FORWARD CURRENT



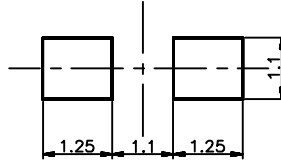
SPATIAL DISTRIBUTION

KP-2012LSGC, KP-2012LSGD SMT Reflow Soldering Instructions



KP-2012LSGC, KP-2012LSGD Recommended Soldering Pattern (Units : mm)

FOR REFLOW SOLDERING



KP-2012LSGC, KP-2012LSGD Tape Specifications (Units : mm)

