

KP-2012VGC

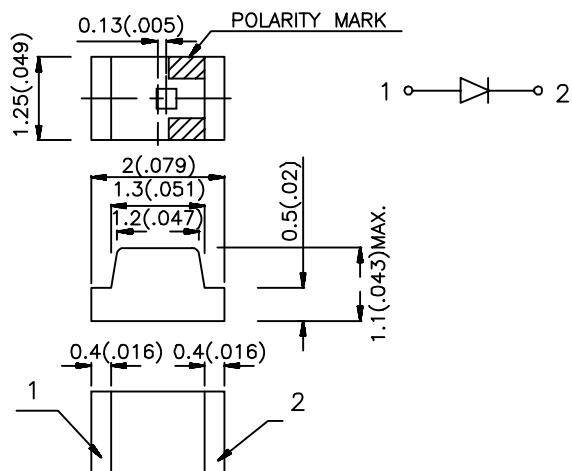
### Features

- 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.

### Description

The Green source color devices are made with DH InGaN on GaAs substrate Light Emitting Diode.

### Package Dimensions



#### Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1$  (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	I <sub>v</sub> (mcd) @ 20 mA		Viewing Angle
			Min.	Typ.	
KP-2012VGC	GREEN (GaP)	WATER CLEAR	50	100	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<sub>A</sub>=25°C

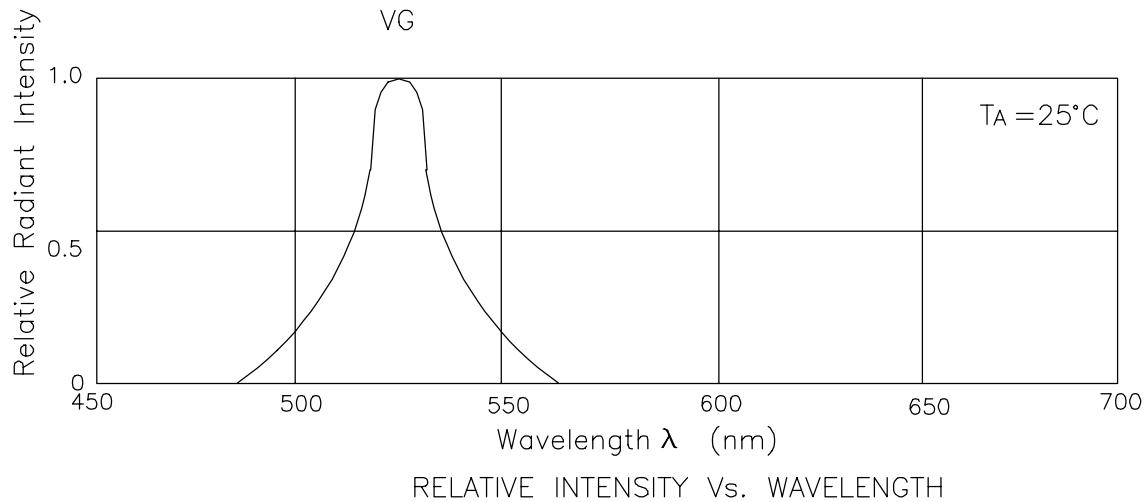
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ <sub>peak</sub>	Peak Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Green	36		nm	IF=20mA
V <sub>F</sub>	Forward Voltage	Green	3.5	4.0	V	IF=20mA
I <sub>R</sub>	Reverse Current	All		10	uA	VR = 5V

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

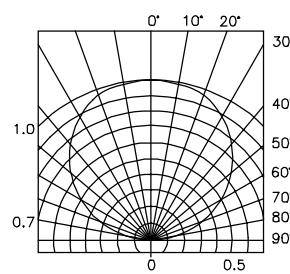
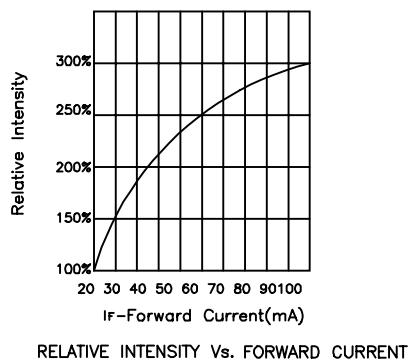
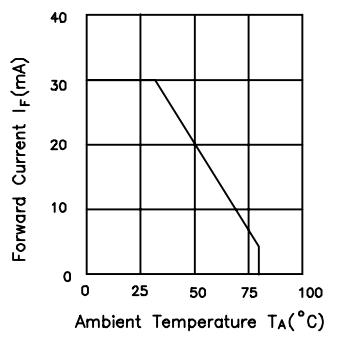
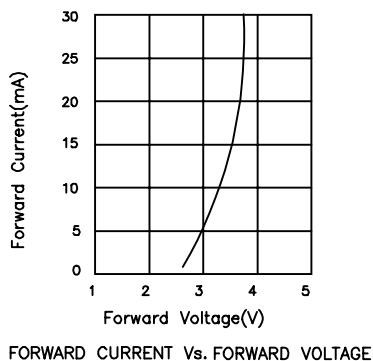
Parameter	Green	Units
DC Forward Current	30	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating Temperature	-20°C To +80°C	
Storage Temperature	-30°C To +85°C	

Note:

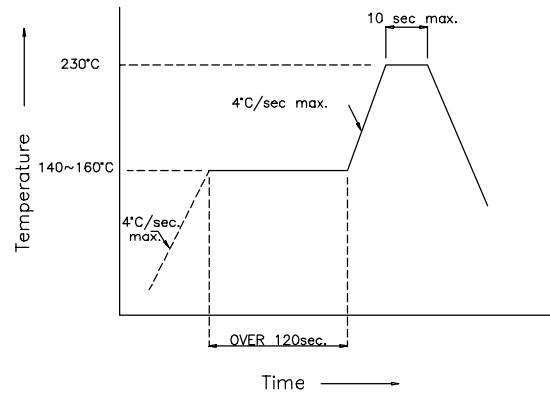
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



### Green KP-2012VGC

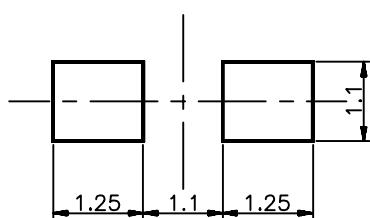


## KP-2012VGC SMT Reflow Soldering Instructions



### KP-2012VGC Recommended Soldering Pattern (Units : mm)

FOR REFLOW SOLDERING



**KP-2012VGC Tape Specifications**  
(Units : mm)

