

1.6X0.8mm SMD CHIP LED LAMP (0.25mm Height)

PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

Part Number: KPG-1608ZGC

Green

Features

- ●1.6mmX0.8mm SMT LED, 0.25mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- **•**COMPATIBLE WITH AUTOMATIC PLACEMENT **EQUIPMENT**
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- ●PACKAGE: 2000PCS / REEL.
- •MOISTURE SENSITIVITY LEVEL: LEVEL 3.
- ●RoHS COMPLIANT.

Description

The Green source color devices are made with AllnGaN on Sapphire Light Emitting Diode.

Static electricity and surge damage the LEDS.

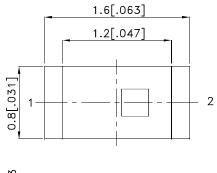
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

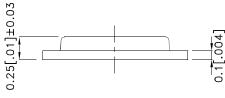
Applications

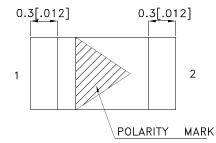
Mobile phone Keypad indicator and backlight Flat backlight for LCD, switch and symbol Toys

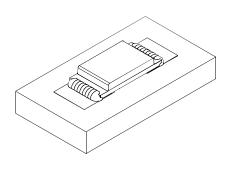
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.004") unless otherwise noted.
- 3. Specifications are subject to change without notice.4. The device has a single mounting surface. The device must be mounted according to the specifications.





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Selection Guide

Part No.	Dice	lv (mcd) [2] Dice Lens Type @ 20mA		,	Viewing Angle [1]
			Min.	Тур.	201/2
KPG-1608ZGC	Green (AllnGaN)	WATER CLEAR	280	420	120°

Notes:

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	515		nm	IF=20mA
λD [1]	Dominant Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	IF=20mA
С	Capacitance	Green	45		pF	V _F =0V;f=1MHz
VF [2]	Forward Voltage	Green	3.3	4.1	V	I=20mA
lr	Reverse Current	Green		10	uA	V _R =5V

- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

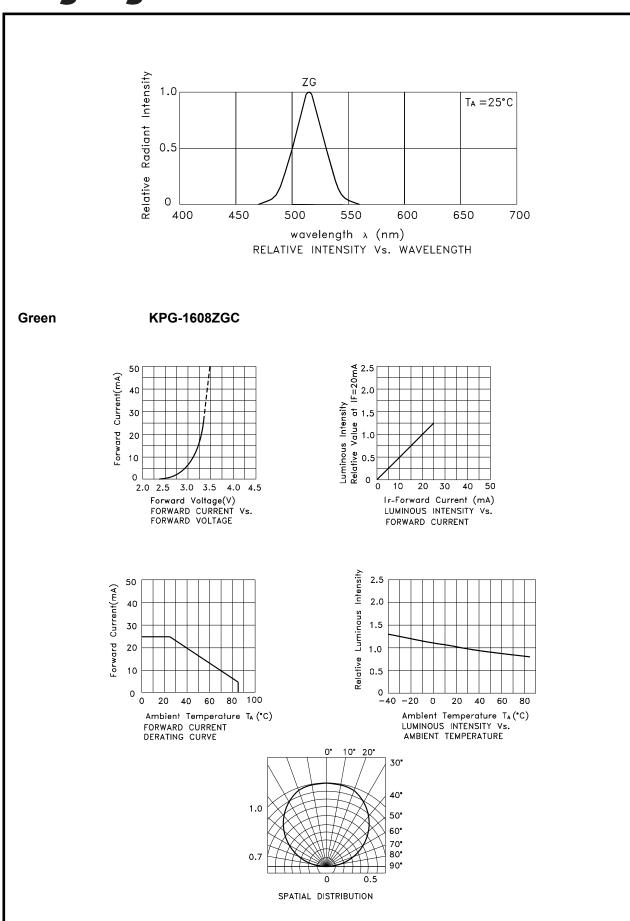
Absolute Maximum Ratings at TA=25°C

Parameter	Green	Units			
Power dissipation	102.5	mW			
DC Forward Current	25	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

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

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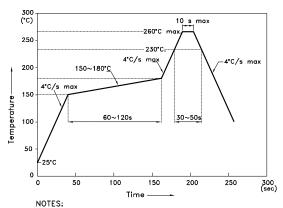
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KPG-1608ZGC

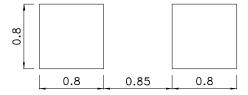
Reflow Soldering Profile For Lead-free SMT Process.



- NOTES:

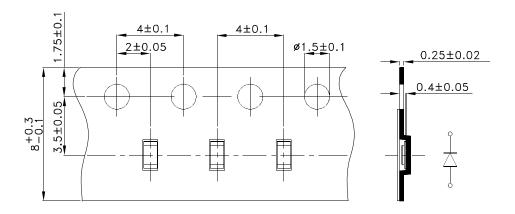
 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 3.Number of reflow process shall be 2 times or less.

Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Specifications (Units: mm)

TAPE



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