### 3.2x1.6mm SMD CHIP LED LAMP

Green

Part Number: KPTD-3216ZGC



### **ATTENTION**

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

### **Features**

- 3.2mmX1.6mm SMT LED, 1.8mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

## Description

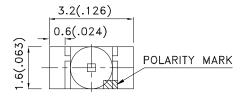
The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.

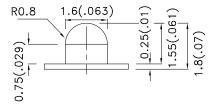
Static electricity and surge damage the LEDS.

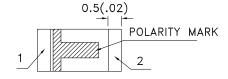
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

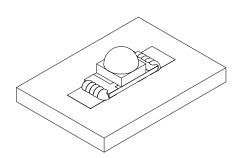
# **Package Dimensions**











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is  $\pm 0.2 (0.008")$  unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
   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	Lens Type	Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPTD-3216ZGC	Green (InGaN)	WATER CLEAR	900	2000	50°

- 1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak 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	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Green	3.3	4.1	٧	IF=20mA	
lr	Reverse Current	Green		50	uA	VR=5V	

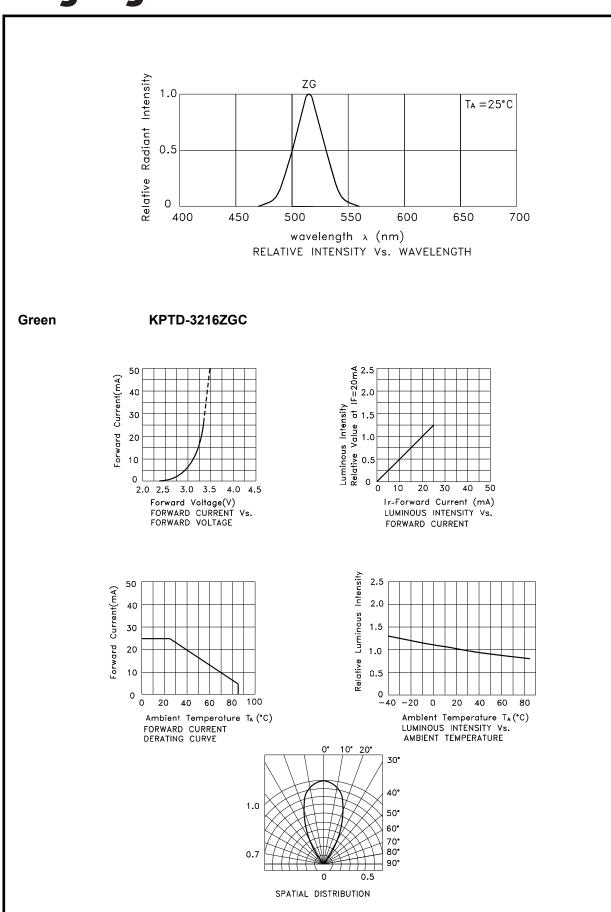
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

### Absolute Maximum Ratings at TA=25°C

Green					
102.5					
25	mA				
150	mA				
5	V				
-40°C To +85°C					
-40°C To +85°C					
	102.5 25 150 5 -40°C To +85°C				

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

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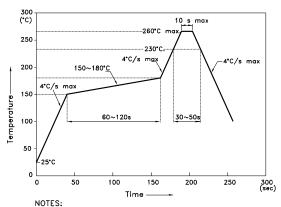


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### KPTD-3216ZGC

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



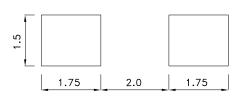
- NOTES:

  1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

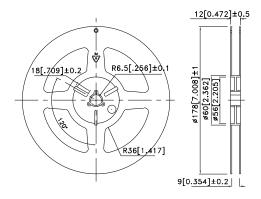
  2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

  3.Number of reflow process shall be 2 times or less.

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

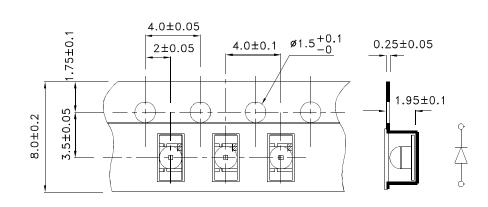


## **Reel Dimension**



**Tape Dimensions** (Units: mm)

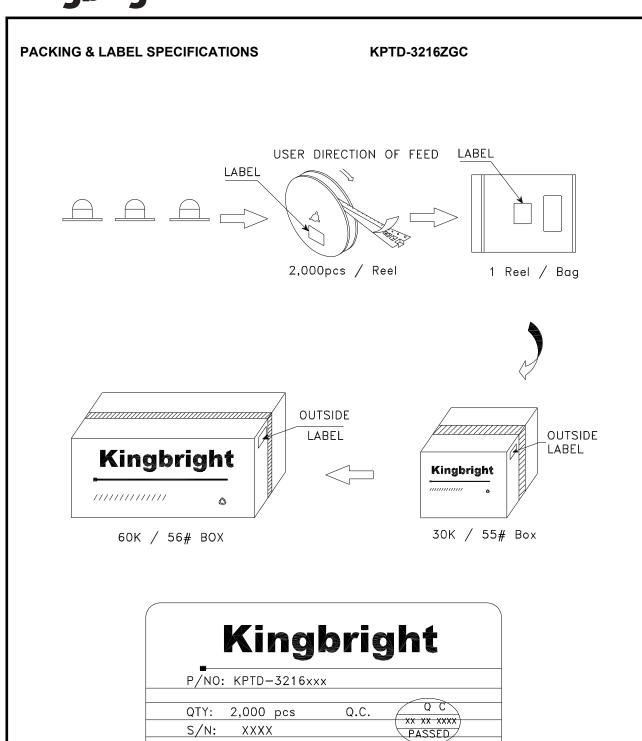
TAPE



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RoHS Compliant

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