

#### EN: This Datasheet is presented by the manufacturer.

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### 2.0x1.25mm SMD CHIP LED LAMP

Part Number: KP-2012ZGC-G Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### **Features**

- 2.0mmx1.25mm SMT LED,1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

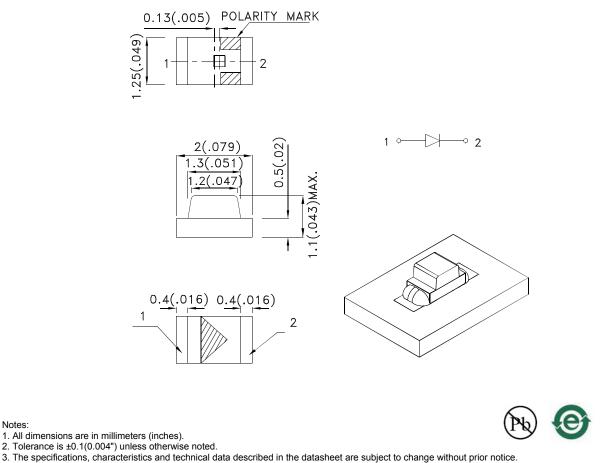
The Green source color devices are made with InGaN Light Emitting Diode.

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**



4. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAJ8364 **APPROVED: WYNEC** 

Notes:

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PAGE: 1 OF 5 ERP: 1203010011

Selection Guide										
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]					
			Min.	Тур.	201/2					
KP-2012ZGC-G	Green (InGaN)	WATER CLEAR	480	750	120°					

Notes: 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	520		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green	525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	35		nm	I⊧=20mA
С	Capacitance	Green	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	3.2	4	V	I⊧=20mA
IR	Reverse Current	Green		50	uA	VR=5V

Notes:

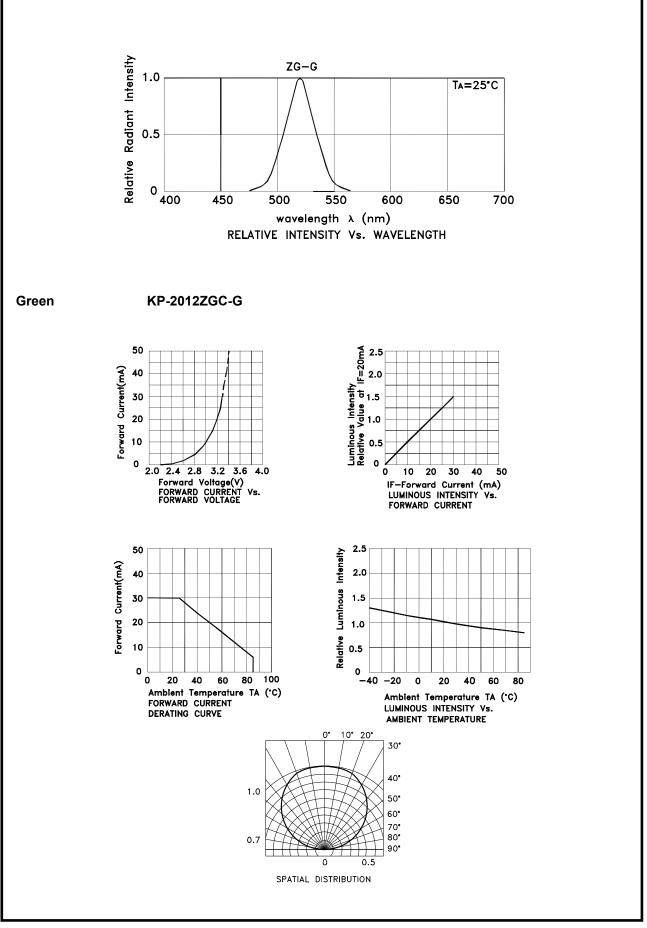
1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

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

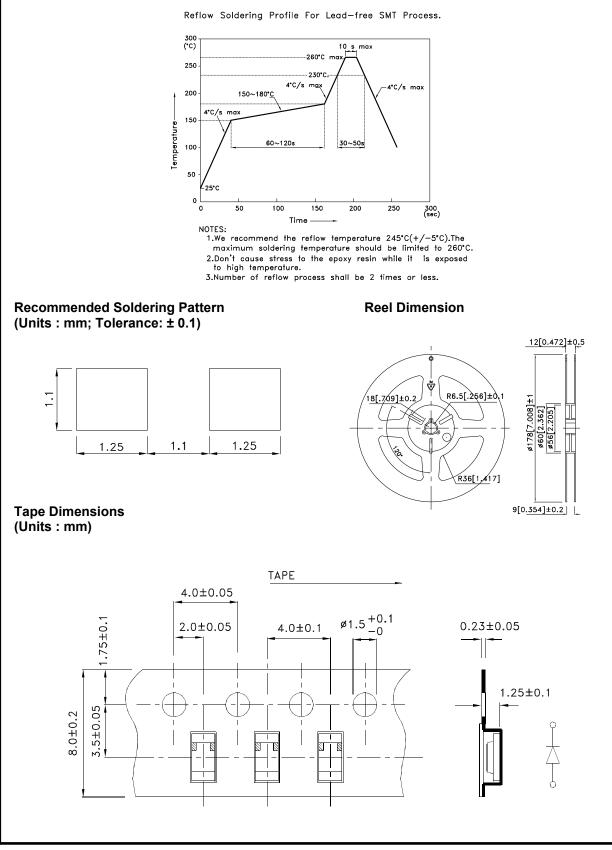
Parameter	Green	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

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



### KP-2012ZGC-G

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.



SPEC NO: DSAJ8364 APPROVED: WYNEC REV NO: V.3 CHECKED: Allen Liu DATE: AUG/17/2010 DRAWN: C.H.HAN PAGE: 4 OF 5 ERP: 1203010011

