2.0x1.25mm SMD CHIP LED LAMP

Part Number: KP-2012ZGC

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

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

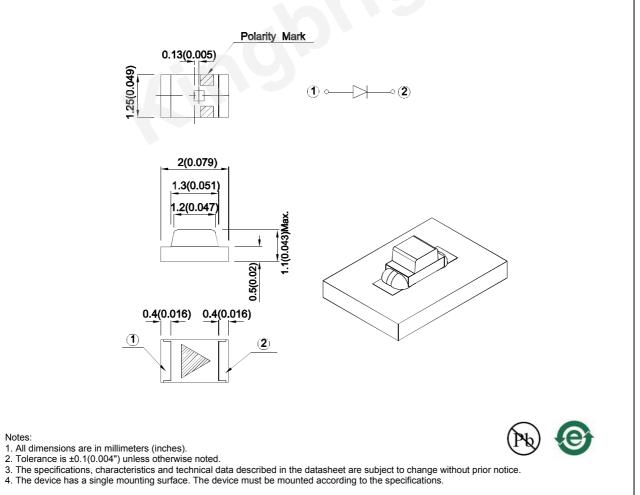
Descriptions

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

Green

- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAE3254 APPROVED: Wynec REV NO: V.13B CHECKED: Allen Liu DATE: OCT/29/2015 DRAWN: M.Liu PAGE: 1 OF 5 ERP: 1203003541

Selection Guide

Oelection Oulde					
Part No.	Emitting Color (Material)	Lens Type Iv (mcd) [2] @ 20mA	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KP-2012ZGC	Green (InGaN)	Water Clear	200	400	120°

Notes:

1. θ 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%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green	515		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Green	525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Green	30		nm	I⊧=20mA
С	Capacitance	Green	45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green	3.3	4.1	V	I⊧=20mA
IR	Reverse Current	Green		50	uA	VR=5V

Notes:

1. Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

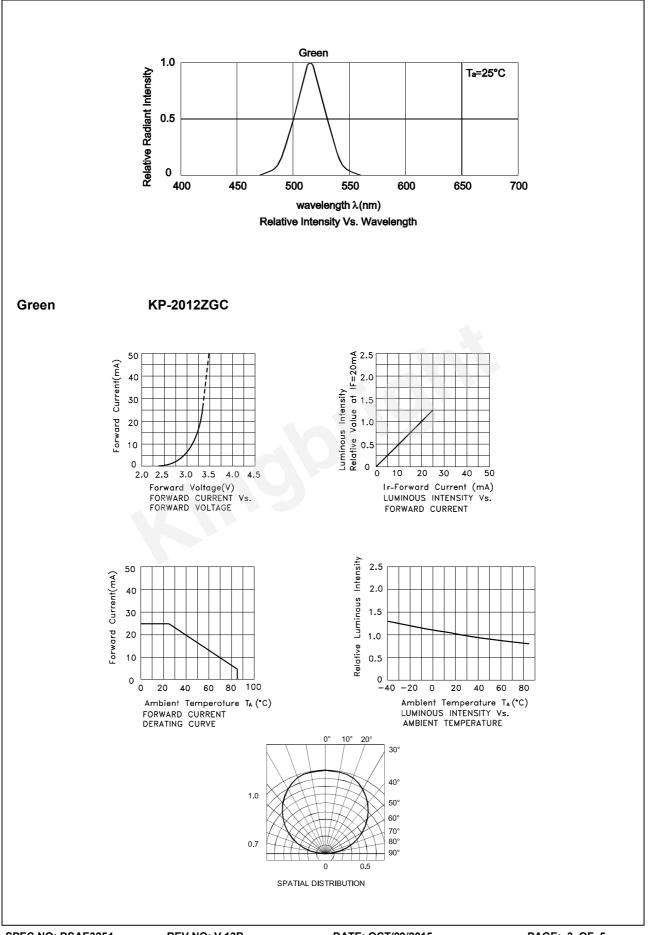
 Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units
Power dissipation	102.5	mW
DC Forward Current	25	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Electrostatic Discharge Threshold (HBM)	450	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.

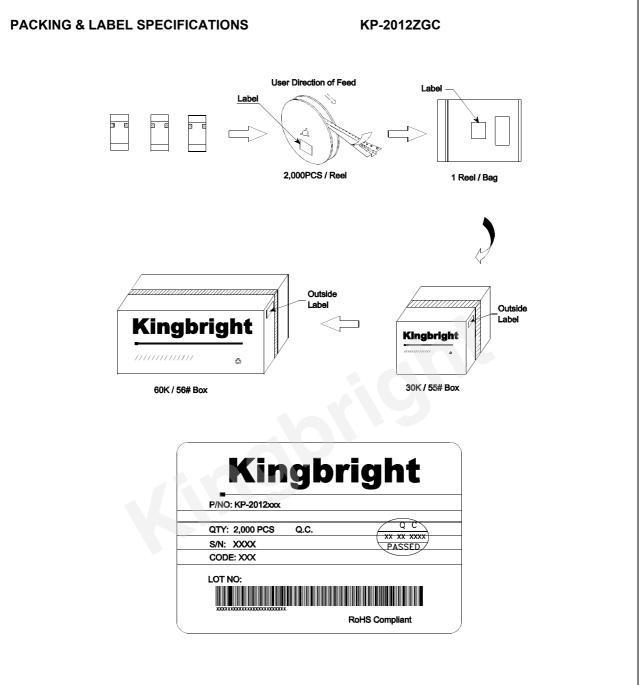


KP-2012ZGC

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. 300 (°C) 10 s ma: 250 4°C/s C/s 200 150~180° (150 Temperature 60~120 30 100 50 100 150 200 250 300 (sec) Time 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 Reel Dimension** (Units : mm; Tolerance: ± 0.1) 12[0.472]±0.5 õ 1<u>8[.7</u>09]±0.2 R6.5[.256]± 178[7.008]±1 ø60[2.362] ø56[2.205] 1.25 1.25 1.1 . 36[1 **Tape Dimensions** 9[0.<u>354]±0.2</u>| (Units : mm) Tape 4.0±0.05 1.75±0.1 2.0±0.05 4.0±0.1 Ø1.5^{+0.1} 0.23±0.05 1.25±0.1 3.5±0.05 8.0±0.2 2.2±0.1 1.43±0.1

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