3.0x2.0mm RIGHT ANGLE SMD LED

Part Number: KPDA-3020LVZGCK Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

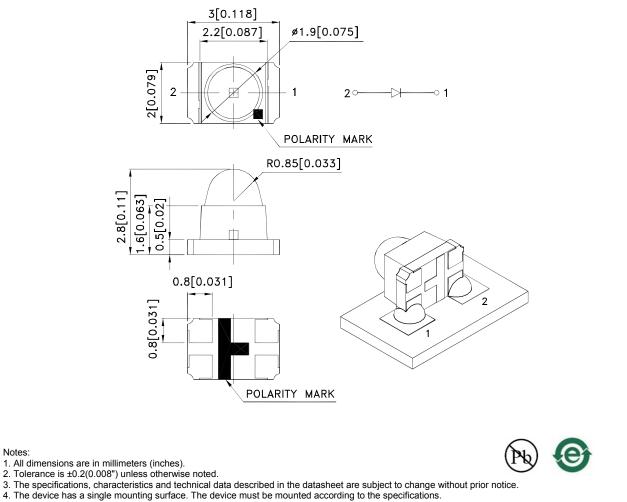
Features

- 3.0mmx2.0mm SMD LED,2.8mm thickness.
- Low power consumption.
- Ideal for back light and indicator
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- Low current IF=2mA operating.
- RoHS compliant.

Descriptions

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



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Selection Guide Viewing lv (mcd) [2] @ 2mA Angle [1] Part No. **Emitting Color (Material)** Lens Type Min. 201/2 Тур. KPDA-3020LVZGCK Green (InGaN) Water Clear 250 600 10°

Notes:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

Luminous intensity / luminous Flux: +/-15%.
Luminous intensity value is traceable to CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Green		515		nm	I⊧=2mA
λD [1]	Dominant Wavelength	Green		525		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Green		35		nm	I⊧=2mA
С	Capacitance	Green		45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green	2.2	2.65	3	V	I⊧=2mA
IR	Reverse Current	Green			50	uA	VR=5V

Notes:

1. Wavelength: +/-1nm.

Forward Voltage: +/-0.1V.
Wavelength value is traceable to CIE127-2007 standards.

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

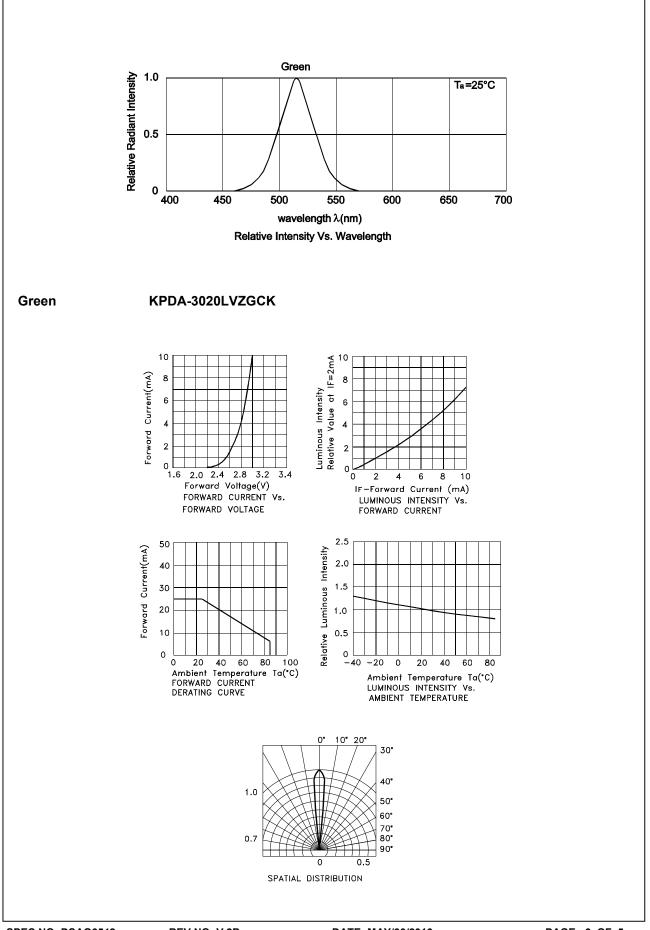
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units			
Power dissipation	75	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				

Notes:

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

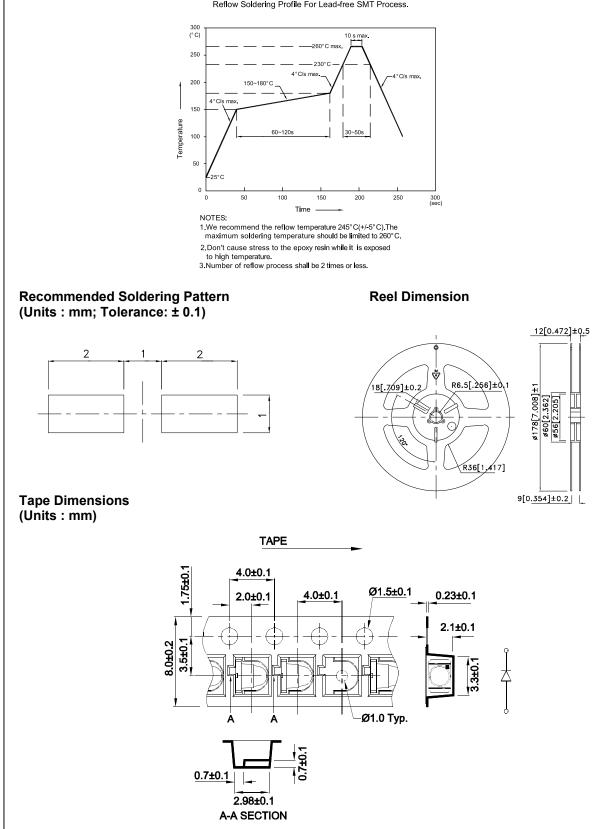
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



KPDA-3020LVZGCK

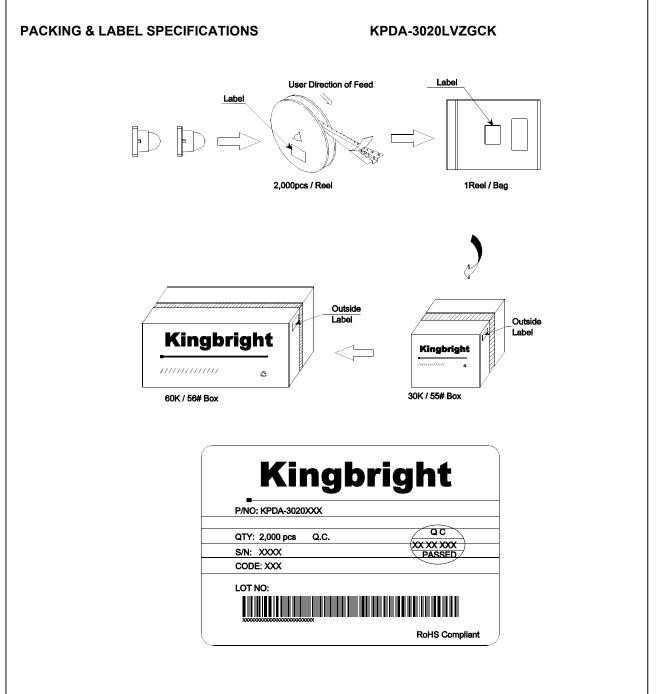
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.





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