2.0x1.25mm SMD CHIP LED LAMP

Part Number: KPT-2012LVZGCK Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

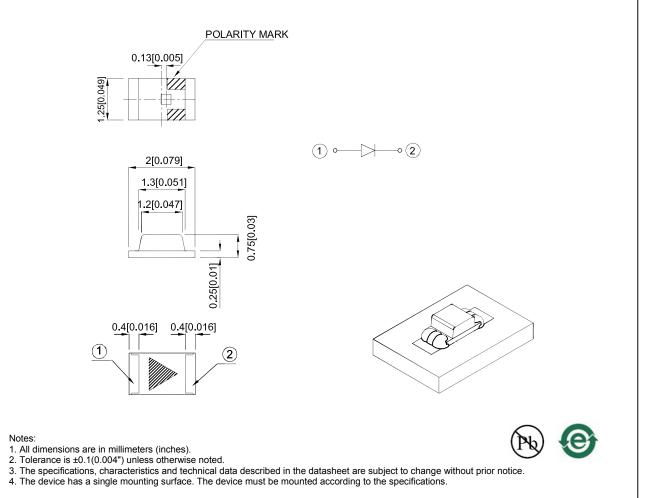
Features

- 2.0mmx1.25mm SMD LED,0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- 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



SPEC NO: DSAO6855 APPROVED: Wynec REV NO: V.2B CHECKED: Allen Liu DATE: JUN/01/2016 DRAWN: L.T.Zhang PAGE: 1 OF 5 ERP: 1203014465

Selection Guide

			by (me	Viewing	
Part No.	Emitting Color (Material)	Lens Type			Viewing Angle [1]
			Min.	Тур.	201/2
KPT-2012LVZGCK	Green (InGaN)	Water Clear	20	50	140°

Notes:

01/2 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	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	IF=2mA
С	Capacitance	Green	45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Green	2.65	3	V	I⊧=2mA
lr	Reverse Current	Green		50	uA	VR=5V

Notes: 1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to CIE127-2007 standards.

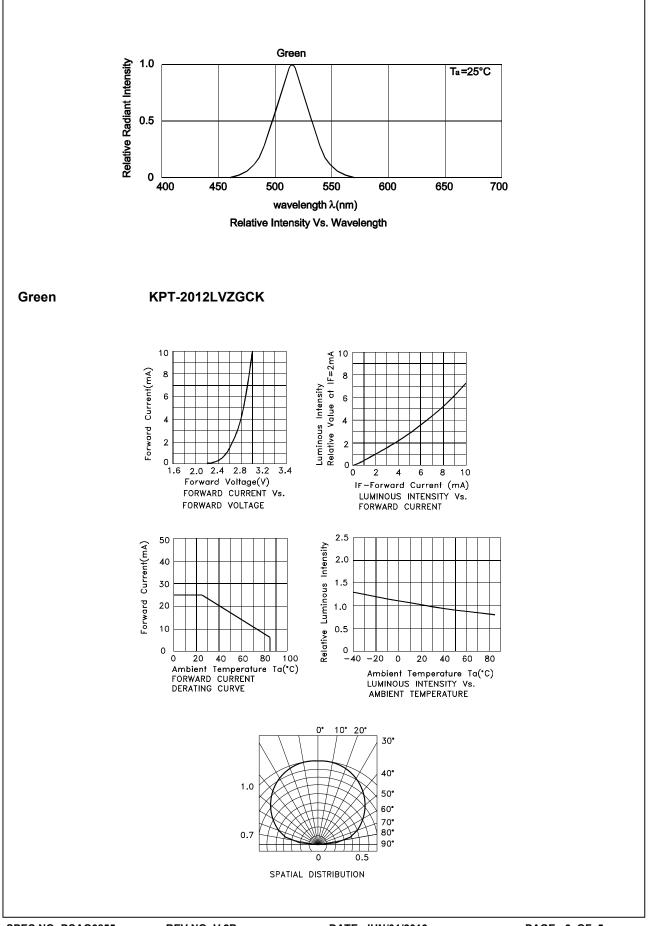
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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		
Electrostatic Discharge Threshold (HBM)	450	V		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

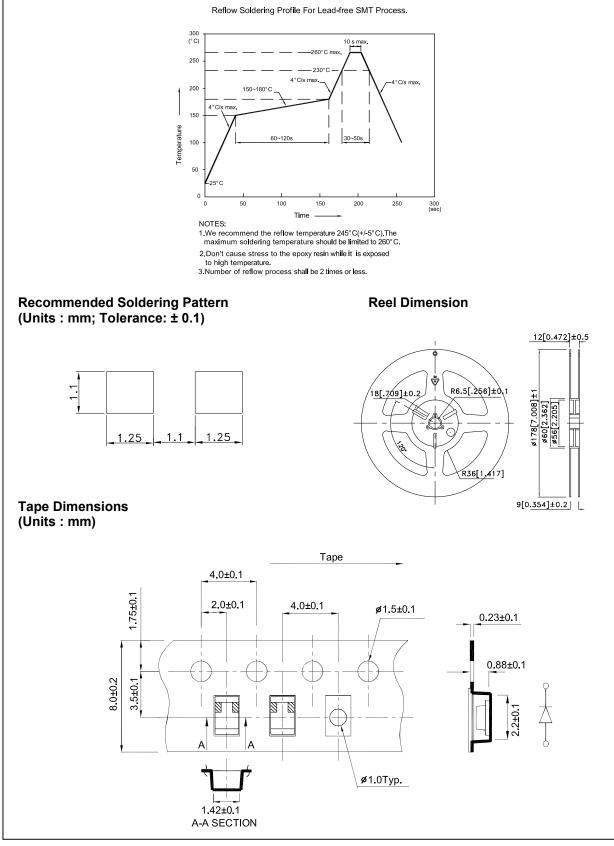
Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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.

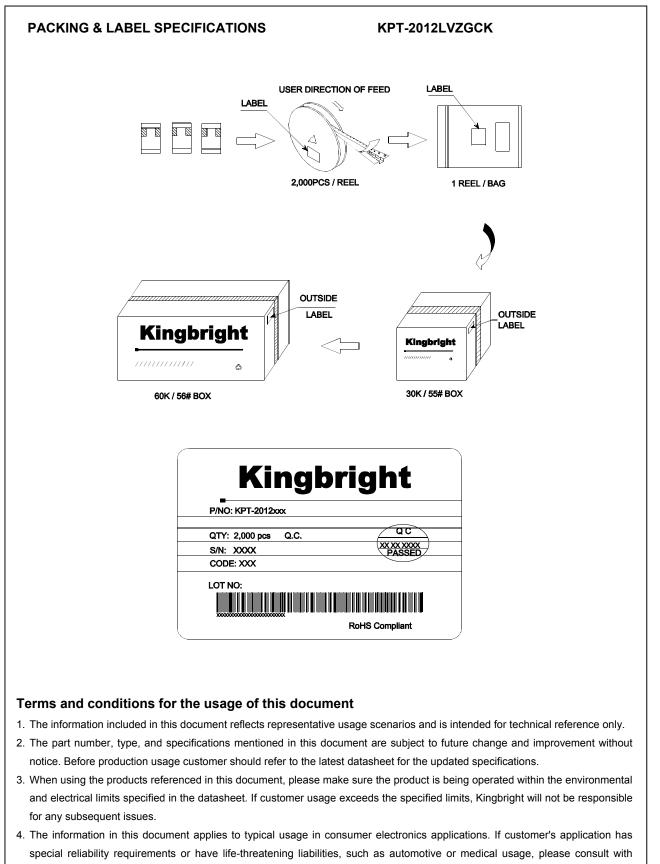


KPT-2012LVZGCK

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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Kingbright representative for further assistance.

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