3.5x2.8mm SURFACE MOUNT LED LAMP

Green

Part Number: KA-3528LVZGCKT

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

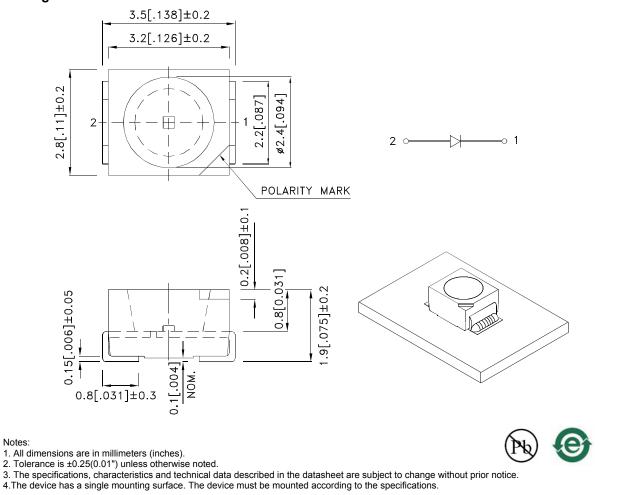
Features

- Single color.
- Suitable for all SMD assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- 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: DSAO8319 APPROVED: Wynec REV NO: V.1B CHECKED: Allen Liu DATE: JUN/02/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1201009154

Selection Guide Viewing lv (mcd) [2] @ 2mA Angle [1] Part No. **Emitting Color (Material)** Lens Type Min. 201/2 Тур. KA-3528LVZGCKT Green (InGaN) Water Clear 50 90 120°

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 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	IF=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	V⊧=0V;f=1MHz
Vf [2]	Forward Voltage	Green	2.65	3	V	IF=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. 4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

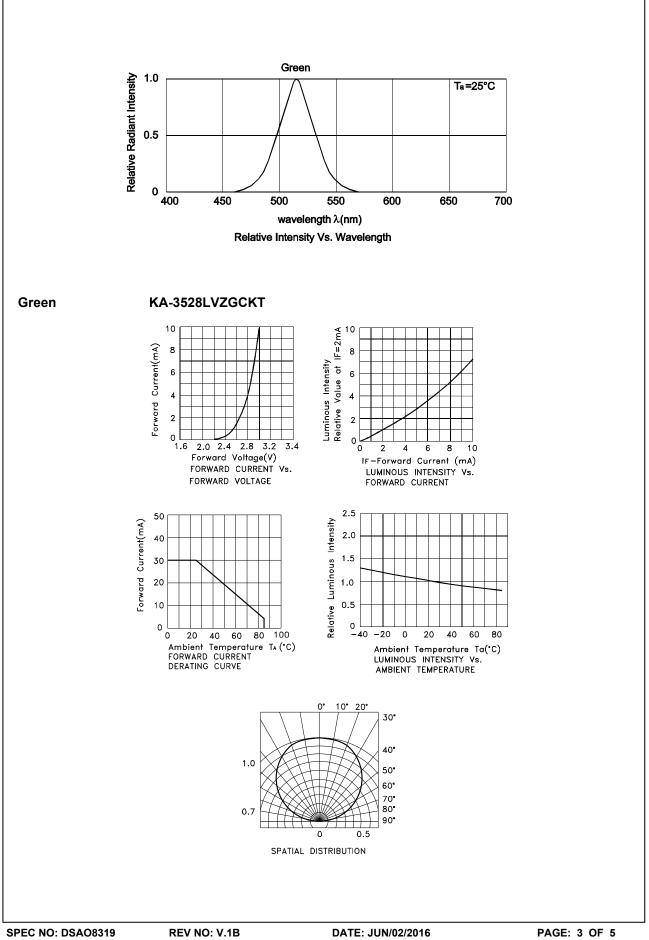
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units		
Power dissipation	90	mW		
DC Forward Current	30	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:

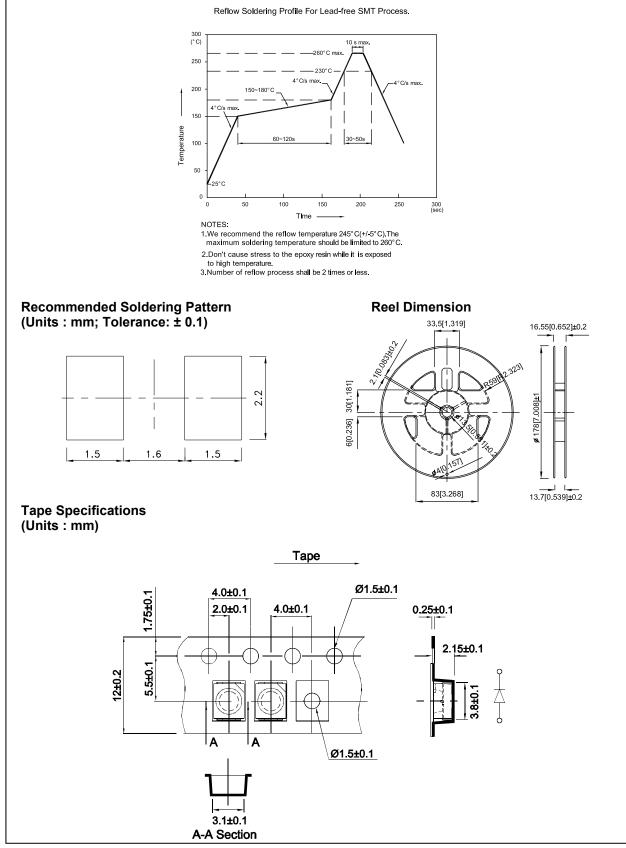
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

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.

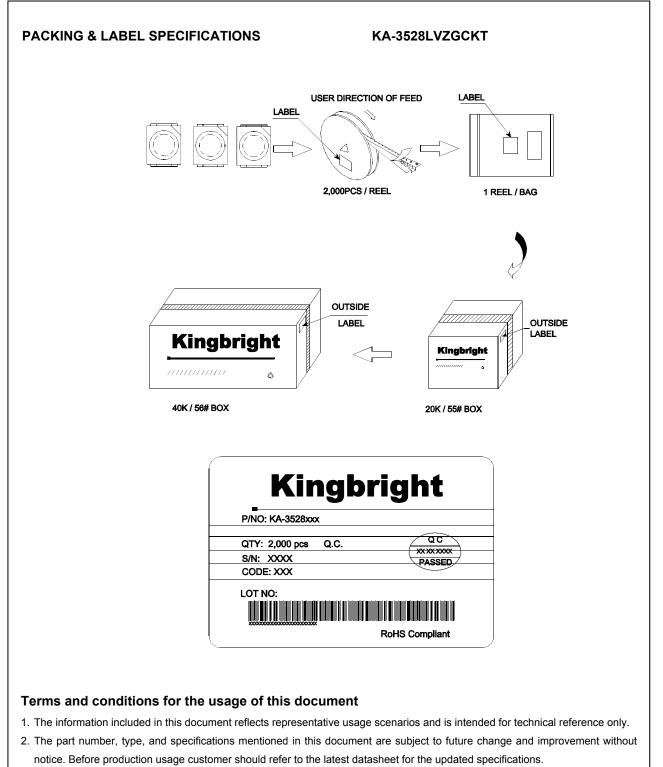


KA-3528LVZGCKT

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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