

2.1x0.6mm RIGHT ANGLE SURFACE LED LAMP

Part Number: KPA-2107ZGCK Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING **ELECTROSTATIC** DISCHARGE SENSITIVE **DEVICES**

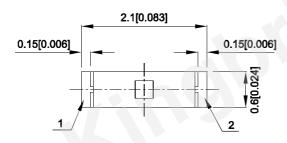
Features

- 2.1mmX1.0mmx0.6mm right angle SMD LED, 0.6mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level: level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

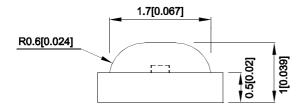
Descriptions

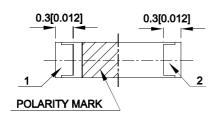
- The Green source color devices are made with InGaN on Sapphire Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

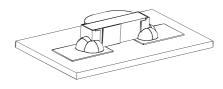
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2.Tolerance is ±0.1(0.004") unless otherwise noted.
- 3.The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice
 4. The device has a single mounting surface. The device must be mounted according to the specifications





SPEC NO: DSAO6758 **REV NO: V.2B DATE: JUN/06/2016** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1203014737



Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPA-2107ZGCK	Green (InGaN)	Water Clear	200	300	170°

Notes:

- 1. 01/2 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=20mA
λD [1]	Dominant Wavelength	Green	525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Green	35		nm	IF=20mA
С	Capacitance	Green	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Green	3.3	4.1	V	IF=20mA
lr	Reverse Current	Green		50	uA	VR=5V

- 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.

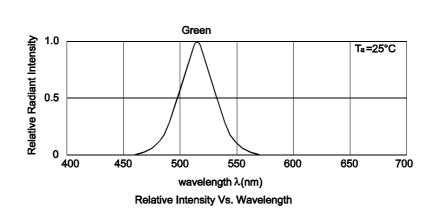
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units		
Power dissipation	102.5	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	erature -40°C To +85°C			

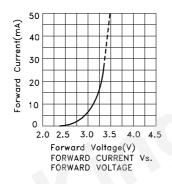
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity Ref JEDEC/JESD625-A and JEDEC/J-STD-033.

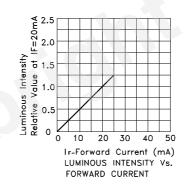
SPEC NO: DSAO6758 **REV NO: V.2B** DATE: JUN/06/2016 PAGE: 2 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1203014737

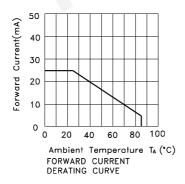
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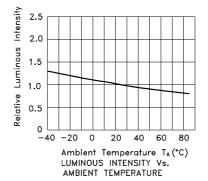


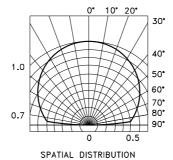
Green KPA-2107ZGCK











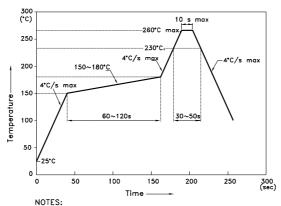
SPEC NO: DSAO6758 REV NO: V.2B DATE: JUN/06/2016 PAGE: 3 OF 5
APPROVED: Wynec CHECKED: Allen Liu DRAWN: L.T.Zhang ERP: 1203014737

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KPA-2107ZGCK

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.



- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

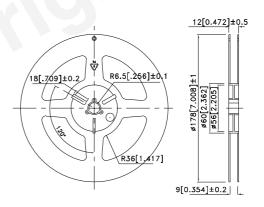
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

 3.Number of reflow process shall be 2 times or less.

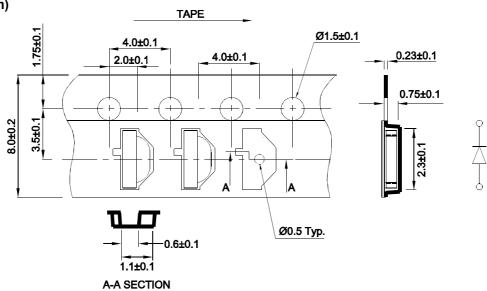
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

2.4

Reel Dimension



Tape Dimensions (Units: mm)

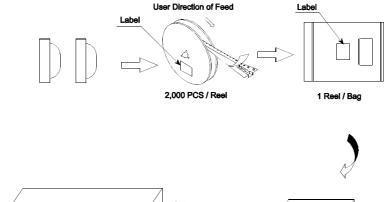


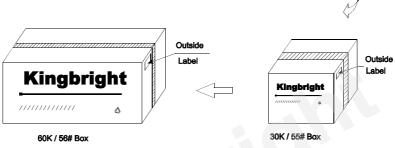
SPEC NO: DSAO6758 **REV NO: V.2B** DATE: JUN/06/2016 PAGE: 4 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: L.T.Zhang ERP: 1203014737

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PACKING & LABEL SPECIFICATIONS

KPA-2107ZGCK







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 SPEC NO: DSAO6758
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 PAGE: 5 OF 5

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