

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.
- Low current IF=2mA operating.
- RoHS compliant.

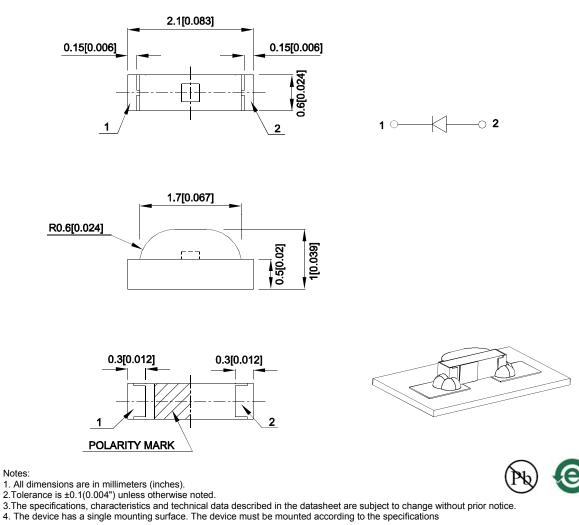
#### Package Dimensions

### 2.1x0.6mm RIGHT ANGLE SURFACE LED LAMP

Part Number: KPA-2107LVVBC-D Blue

#### Descriptions

- The Blue source color devices are made with InGaN 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, equipment and machinery must be electri cally grounded.



SPEC NO: DSAO8145 APPROVED: Wynec REV NO: V.2B CHECKED: Allen Liu DATE: MAY/31/2016 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1203014436

#### **Selection Guide**

Part No.	Emitting Color (Material)	Lens Type	lv (mo @ 2		Viewing Angle [1]
			Min.	Тур.	201/2
KPA-2107LVVBC-D	Blue (InGaN)	Water Clear	10	20	170°

Notes:

1.  $\theta$ 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	Blue	465		nm	IF=2mA
λD [1]	Dominant Wavelength	Blue	470		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Blue	22		nm	I⊧=2mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	2.65	3	V	I⊧=2mA
IR	Reverse Current	Blue		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.

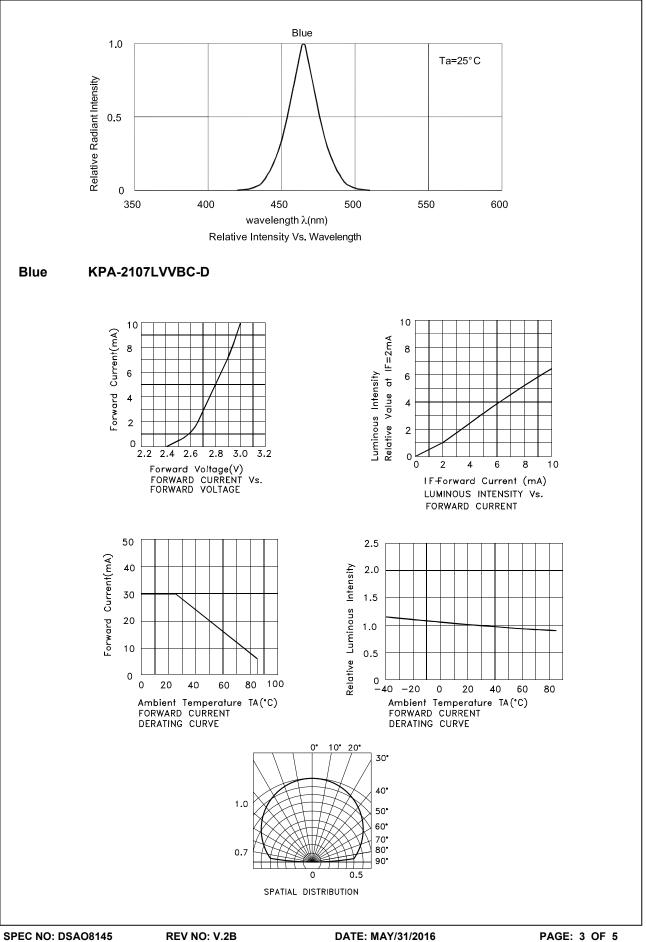
#### Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units		
Power dissipation	90	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Electrostatic Discharge Threshold (HBM)	250	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.

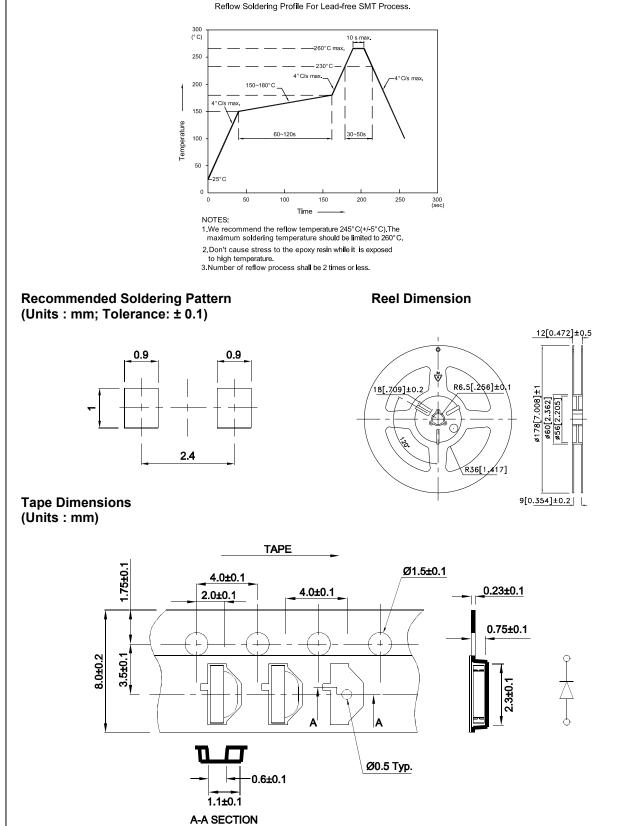
 Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



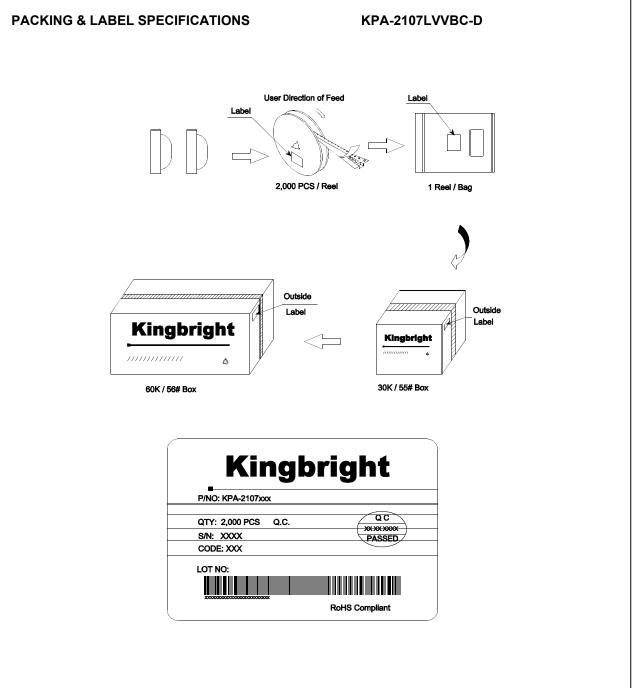
#### KPA-2107LVVBC-D

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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