

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

Part Number: KPA-2107LVSYCK-J3-PRV

Super Bright Yellow

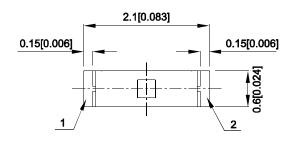
## **Features**

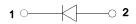
- 2.1mmX1.0mmx0.6mm right angle SMD LED, 0.6mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- Low current IF=2mA operating.
- RoHS compliant.

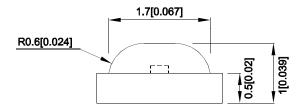
## Description

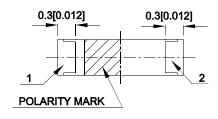
The Super Bright Yellow device is based on light emitting diode chip made from AlGaInP.

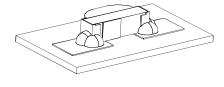
## **Package Dimensions**











- 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: DSAO8144 **REV NO: V.2B DATE: MAY/12/2016** PAGE: 1 OF 5 **APPROVED: Wynec CHECKED: Allen Liu** DRAWN: W.Q.Zhong ERP: 1203014435



## **Selection Guide**

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
	- ' '		Min.	Тур.	201/2
KPA-2107LVSYCK-J3-PRV	Super Bright Yellow (AlGaInP)	Water Clear	15	30	140°

- 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	Super Bright Yellow	590		nm	IF=2mA
λD [1]	Dominant Wavelength	Super Bright Yellow	590		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Yellow	20		nm	IF=2mA
С	Capacitance	Super Bright Yellow	45		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Yellow	1.85	2.1	V	IF=2mA
lr	Reverse Current	Super Bright Yellow		10	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.

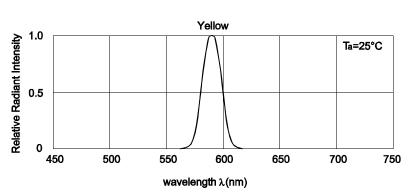
## Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	63		
DC Forward Current	30	mA	
Peak Forward Current [1]	140	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

- 1.110 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.

SPEC NO: DSAO8144 **REV NO: V.2B DATE: MAY/12/2016** PAGE: 2 OF 5 APPROVED: Wynec **CHECKED: Allen Liu** DRAWN: W.Q.Zhong ERP: 1203014435

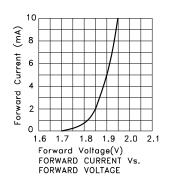
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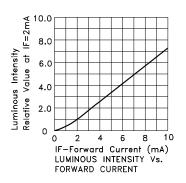


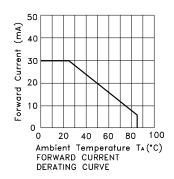
Relative Intensity Vs. Wavelength

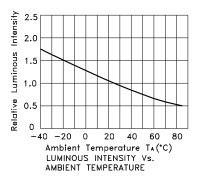
**Super Bright Yellow** 

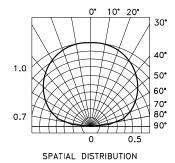
**KPA-2107LVSYCK-J3-PRV** 











 SPEC NO: DSAO8144
 REV NO: V.2B
 DATE: MAY/12/2016
 PAGE: 3 OF 5

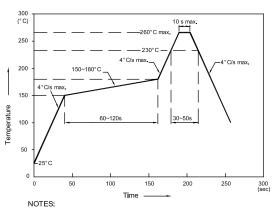
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## **KPA-2107LVSYCK-J3-PRV**

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.



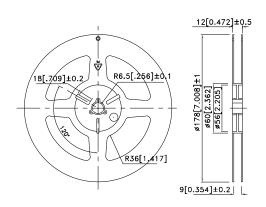
- 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
- 2 Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
  3.Number of reflow process shall be 2 times or less.

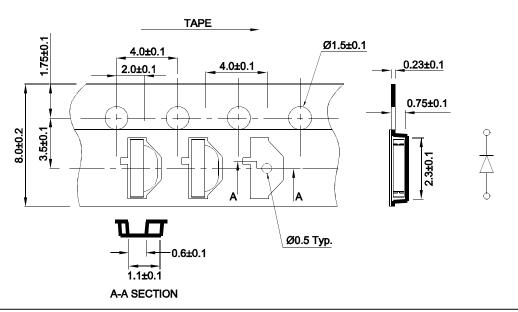
## Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

# 2.4

## Tape Dimensions (Units : mm)

## **Reel Dimension**



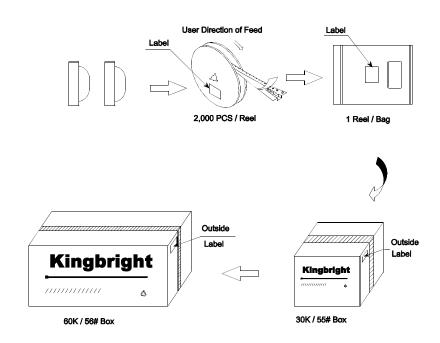


SPEC NO: DSAO8144 REV NO: V.2B DATE: MAY/12/2016 PAGE: 4 OF 5
APPROVED: Wynec CHECKED: Allen Liu DRAWN: W.Q.Zhong ERP: 1203014435

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## **PACKING & LABEL SPECIFICATIONS**

## **KPA-2107LVSYCK-J3-PRV**





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 SPEC NO: DSAO8144
 REV NO: V.2B
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 PAGE: 5 OF 5

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