

2.1x0.6mm RIGHT ANGLE SURFACE LED LAMP

Part Number: KPA-2107LVSECK-J4-PRV

Super Bright Orange

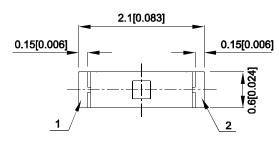
Features

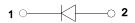
- 2.1mmX1.0mmx0.6mm right angle SMD LED, 0.6mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- Low current IF=2mA operating.
- RoHS compliant.

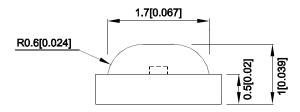
Description

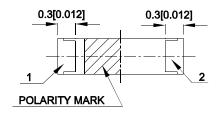
The Orange source color devices are made with AlGaInP Light Emitting Diode.

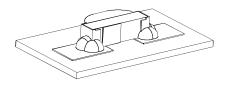
Package Dimensions













- 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

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Selection Guide

Part No.	t No. Emitting Color (Material) Lens Type	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
		-	Min.	Тур.	201/2
KPA-2107LVSECK-J4-PRV	Curay Bright Overes (AlCalaD)	Water Class	80	150	- 140°
	Super Bright Orange (AlGaInP)	Water Clear	*20	*40	

- 1. θ 1/2 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	Super Bright Orange	611		nm	IF=2mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	IF=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	IF=2mA
С	Capacitance	Super Bright Orange	27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Orange	1.8	2.1	V	IF=2mA
lr	Reverse Current	Super Bright Orange		10	uA	VR=5V

Notes:

- Wavelength: +/-1nm.
 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.

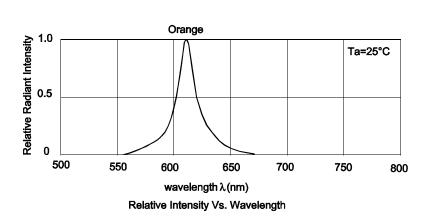
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units	
Power dissipation	63	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

- 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.

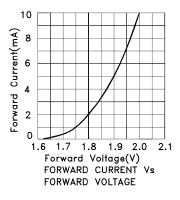
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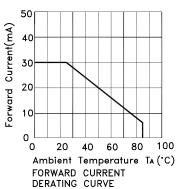
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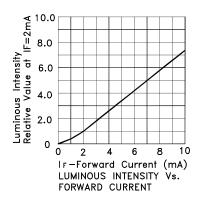


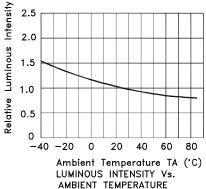
Super Bright Orange

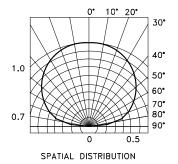
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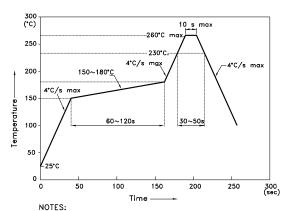
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

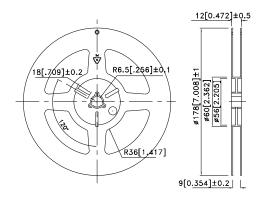
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

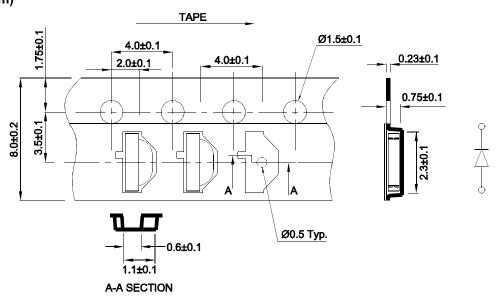
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

2.4

Reel Dimension



Tape Dimensions (Units: mm)



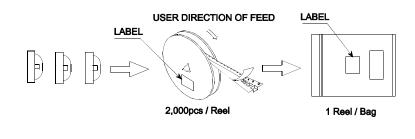
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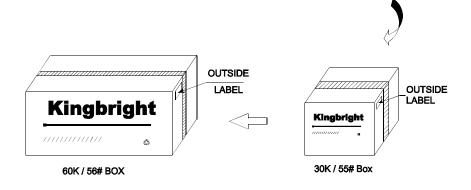
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PACKING & LABEL SPECIFICATIONS

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