

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

Part Number: APA2106SECK Super Bright Orange

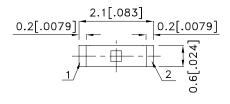
#### **Features**

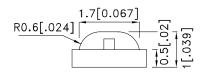
- 2.1mmX0.6mm right angle SMT LED, 1.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

#### Description

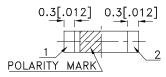
The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

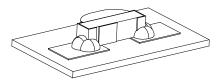
### **Package Dimensions**











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- 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

**REV NO: V.12A** 

**CHECKED: Allen Liu** 

DATE: DEC/04/2011 DRAWN: Y.H.Wu



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#### **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
ADA2406SECV	Curar Pright Orange (AlCalaD)	Mater Clear	110	250	120°
APA2106SECK	Super Bright Orange (AlGaInP)	Water Clear	*80	*180	

- θ1/2 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 the CIE127-2007 compliant national standards

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Orange	610		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	29		nm	I=20mA
С	Capacitance	Super Bright Orange	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Orange	2.1	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Orange		10	uA	V <sub>R</sub> =5V

#### Notes:

- Navelength: +/-1nm.
   Forward Voltage: +/-0.1V.
   Navelength value is traceable to the CIE127-2007 compliant national standards.

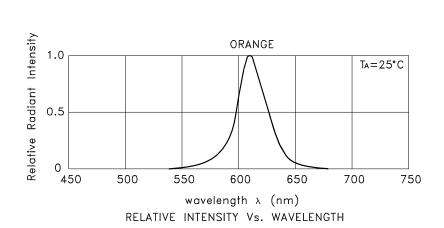
#### Absolute Maximum Ratings at TA=25°C

Absolute maximum Ratings at TA-25 G				
Parameter	Super Bright Orange			
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	195	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

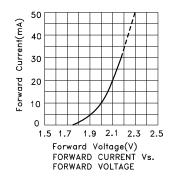
#### Note:

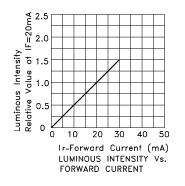
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

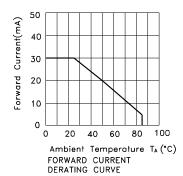
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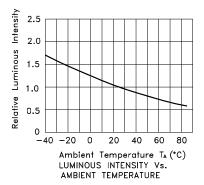


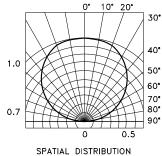
Super Bright Orange APA2106SECK











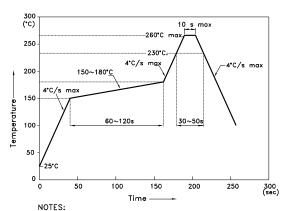
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#### APA2106SECK

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.



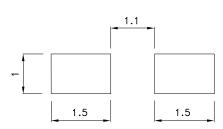
- NOTES:

  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.

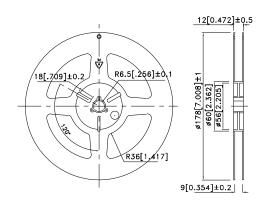
  3.Number of reflow process shall be 2 times or less.

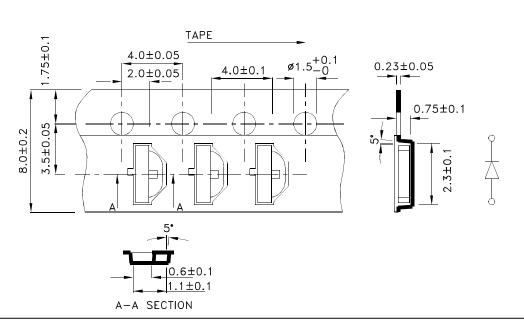
### **Recommended Soldering Pattern** (Units: mm; Tolerance: ± 0.1)



#### **Tape Dimensions** (Units : mm)

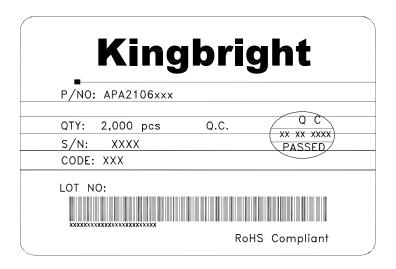
#### **Reel Dimension**





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### **PACKING & LABEL SPECIFICATIONS** APA2106SECK USER DIRECTION OF FEED LABEL LABEL 2,000pcs / Reel 1 Reel / Bag OUTSIDE OUTSIDE LABEL LABEL Kinggright Kingbright 60K / 56# BOX 30K / 55# BOX



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