

3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: APT3216SECK/J4-PRV

Super Bright Orange

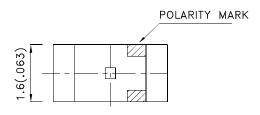
Features

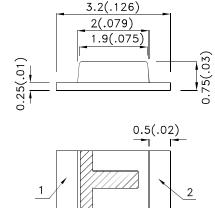
- 3.2mmx1.6mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

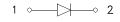
Description

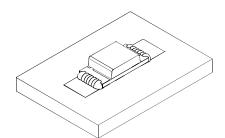
The Orange source color devices are made with AlGaInP Light Emitting Diode.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
APT3216SECK/J4-PRV	Super Bright Orange (AlGaInP)	Water Clear	1300	2000	- 120°
			*300	*550	

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%.

 * 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	611		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	IF=20mA
С	Capacitance	Super Bright Orange	27		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Orange	2.2	2.8	V	IF=20mA
lr	Reverse Current	Super Bright Orange		10	uA	V _R =5V

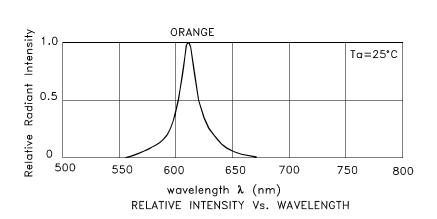
- Notes: 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

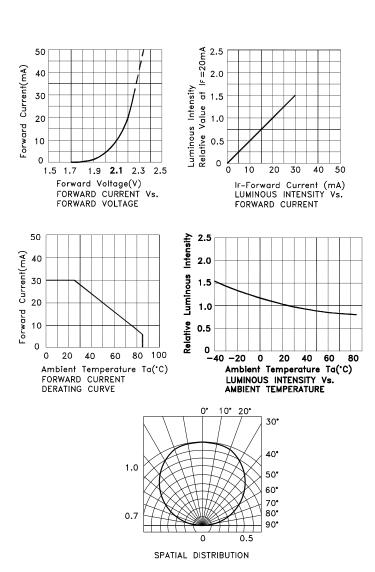
Parameter	Super Bright Orange	Units		
Power dissipation	84	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C	-40°C To +85°C		

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

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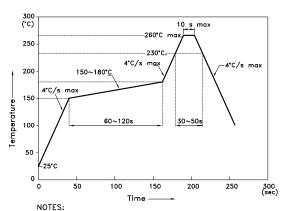
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

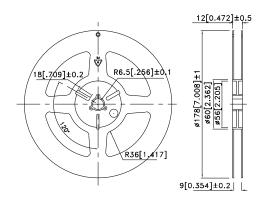
 3.Number of reflow process shall be 2 times or less.

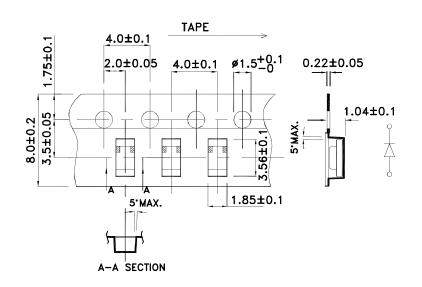
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.75 2.0 1.75

Tape Dimensions (Units: mm)

Reel Dimension

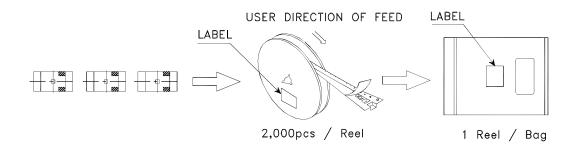


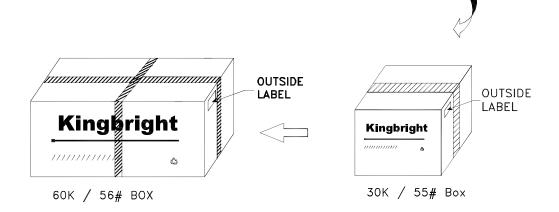


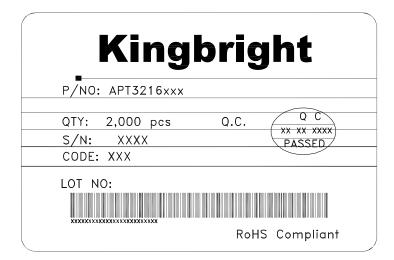
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PACKING & LABEL SPECIFICATIONS

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All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

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