

3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: KPT-3216SECK

Super Bright Orange

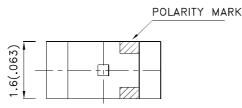
Features

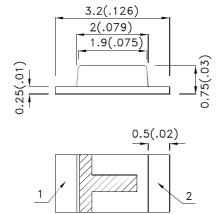
- 3.2mmx1.6mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

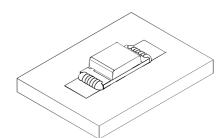
The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions









- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.2(0.008") 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.	Dice	Iv (mcd) [2] Dice			Viewing Angle [1]
			Min.	Тур.	201/2
KDT 20400FOK	Super Bright Orange (AlGaInP)	Water Clear	120	250	120°
KPT-3216SECK		Water Clear	*80	*180	

Notes:

- 1. θ1/2 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	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	IF=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 _R =5V	

Notes:

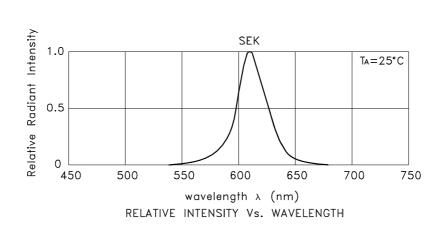
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

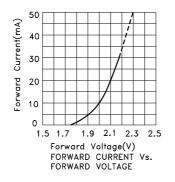
Parameter Super Bright Orange Units					
Parameter	Super Bright Orange				
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	195	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

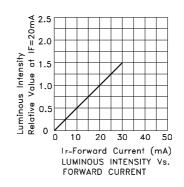
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

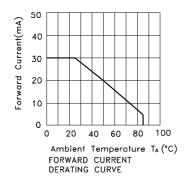
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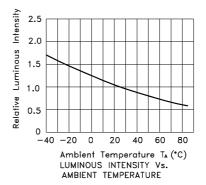


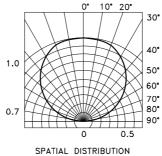
Super Bright Orange KPT-3216SECK











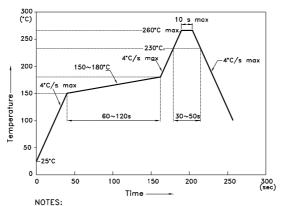
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

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.

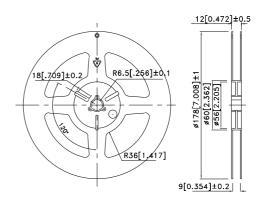
 3.Number of reflow process shall be 2 times or less.

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

1.75 2.0 1.75

 1.75 ± 0.1

Reel Dimension



Tape Dimensions (Units: mm)

> ø1.5^{+0.1} 0.22±0.05 4.0±0.1 1.04±0.1

05 8.0±0.2 5±0.0

4.0±0.1

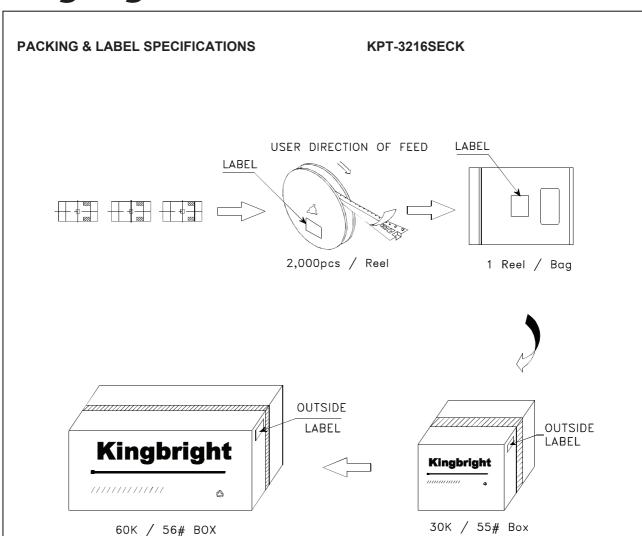
 2.0 ± 0.05

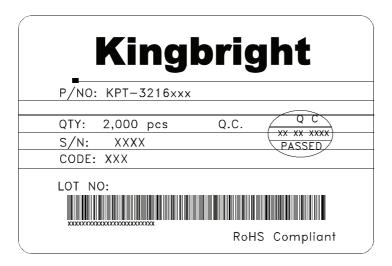
TAPE

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