

3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTL-3216SECK

Super Bright Orange

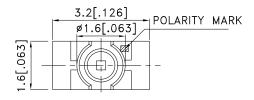
Features

- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

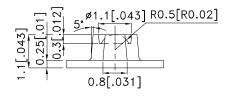
Description

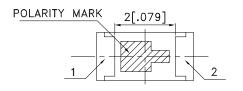
The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

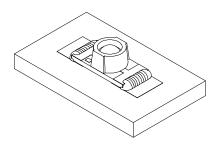
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ 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. | Dice Lens Type | | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|---------------|-------------------------------|-------------|------------------------|------|----------------------|
| | | 7 | | Тур. | 201/2 |
| KPTL-3216SECK | Super Bright Orange (AlGaInP) | Water Clear | 380 | 600 | 70° |

- 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%.

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 |
| IR | Reverse Current | Super Bright Orange | | 10 | uA | V _R =5V |

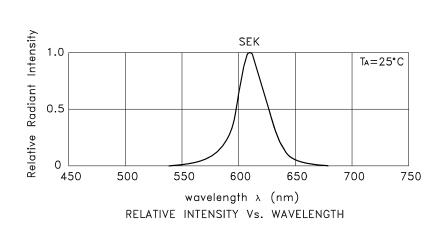
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

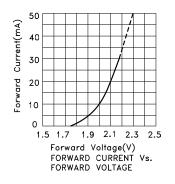
| Parameter | Super Bright Orange | Units | |
|--------------------------|---------------------|-------|--|
| Power dissipation | 75 | mW | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 195 | mA | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +85°C | | |
| Storage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

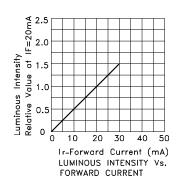
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

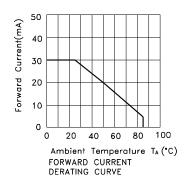
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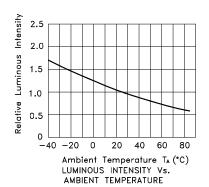


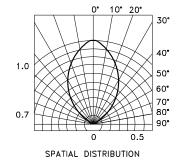
Super Bright Orange KPTL-3216SECK











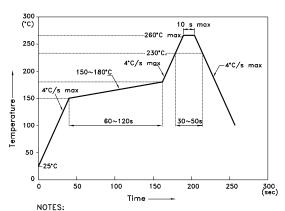
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



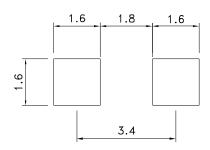
- NOTES:

 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.

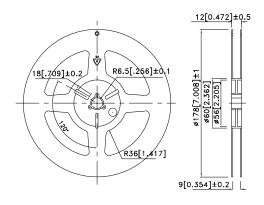
 3.Number of reflow process shall be 2 times or less.

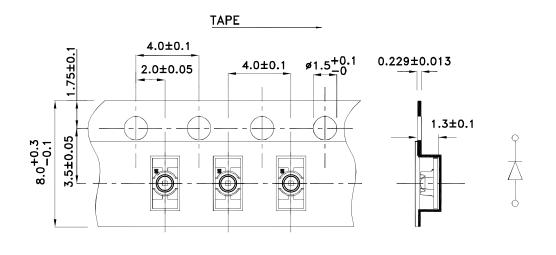
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)

Reel Dimension

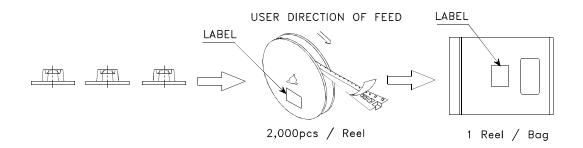


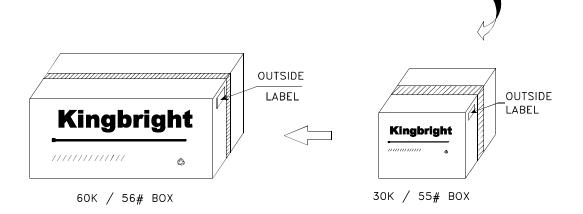


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PACKING & LABEL SPECIFICATIONS

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