

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPH-1608SECK

Super Bright Orange

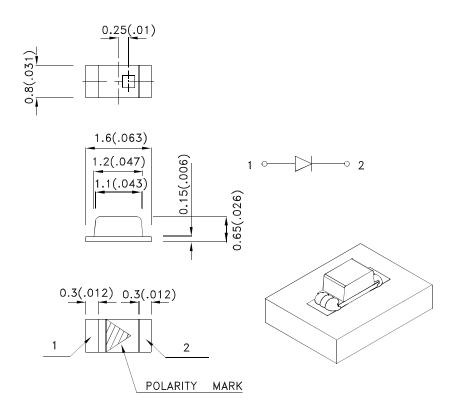
Features

- 1.6mmX0.8mm SMT LED, 0.65mm 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



SPEC NO: DSAB8205

APPROVED: WYNEC

- 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.

REV NO: V.12A

CHECKED: Allen Liu

DATE: JAN/19/2012 PAGE: 1 OF 5 DRAWN: F.ZHANG ERP: 1203001347

Selection Guide

| Part No. | Dice | Lens Type | lv (mcd) [2] @ 20mA | | Viewing Angle [1] |
|--------------|-------------------------------|-------------|------------------------|------|----------------------|
| | | | Min. | Тур. | 201/2 |
| KDI 16006ECK | Super Bright Orange (AlGaInP) | Water Clear | 120 | 250 | 120° |
| KPH-1608SECK | | | *80 | *180 | |

- 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 | 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 | VR=5V |

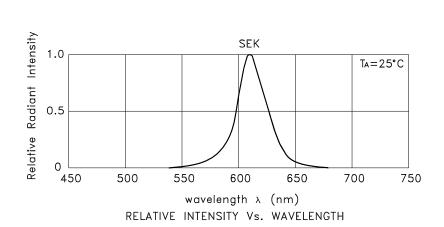
- 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- * Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

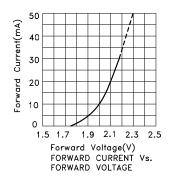
| Parameter | Super Bright Orange | Units | |
|--------------------------|---------------------|-------|--|
| Power dissipation | 75 | | |
| DC Forward Current | 30 | mA | |
| Peak Forward Current [1] | 195 | mA | |
| Reverse Voltage | 5 | V | |
| Operating Temperature | -40°C To +85°C | | |
| Storage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

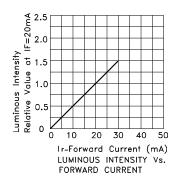
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

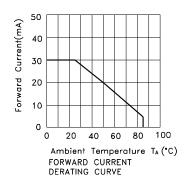
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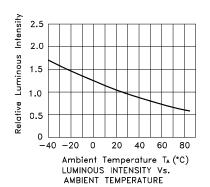


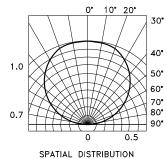
Super Bright Orange KPH-1608SECK











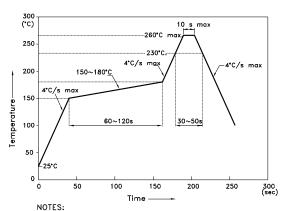
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KPH-1608SECK

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.

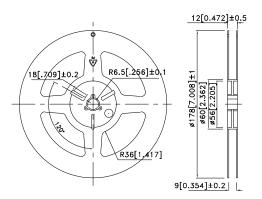
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

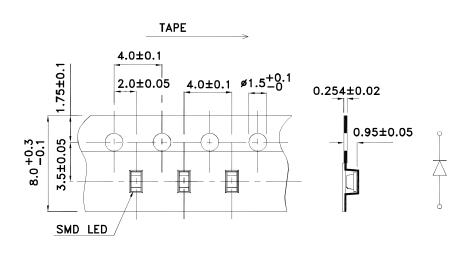
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.8 8.0 0.85 8.0

Reel Dimension

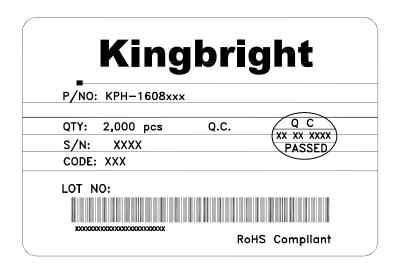


Tape Dimensions (Units: mm)



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PACKING & LABEL SPECIFICATIONS KPH-1608SECK USER DIRECTION OF FEED LABEL-**LABEL** 2,000pcs / Reel 1Reel / Bag OUTSIDE LABEL OUTSIDE LABEL **Kingbright Kingbright**



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60K / 56# BOX

DATE: JAN/19/2012 DRAWN: F.ZHANG

30K / 55# BOX

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