

3.2x1.6mm SMD CHIP LED LAMP

Part Number: KP-3216SECK

Super Bright Orange

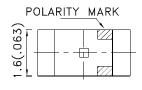
Features

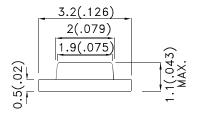
- 3.2mmx1.6mm SMT LED, 1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

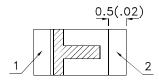
Description

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

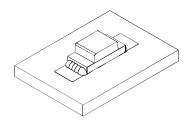
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.2(0.0079") 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.



SPEC NO: DSAB8603 **REV NO: V.10** DATE: MAY/03/2010 PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu DRAWN: SHANW** ERP: 1203000396

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		2.	Min.	Тур.	201/2
KP-3216SECK	Super Bright Orange (AlGaInP)	WATER CLEAR	70	240	120°

- 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	V _F =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		

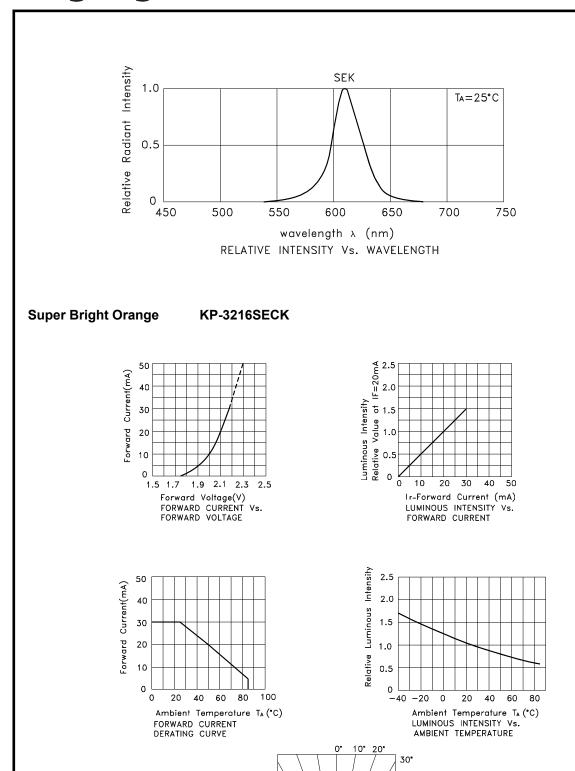
- 1.Wavelength: +/-1nm.
- 2. Forward Voltage: +/-0.1V.

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		

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

SPEC NO: DSAB8603 **REV NO: V.10** DATE: MAY/03/2010 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu DRAWN: SHANW** ERP: 1203000396



 SPEC NO: DSAB8603
 REV NO: V.10
 DATE: MAY/03/2010
 PAGE: 3 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: SHANW
 ERP: 1203000396

SPATIAL DISTRIBUTION

0.7

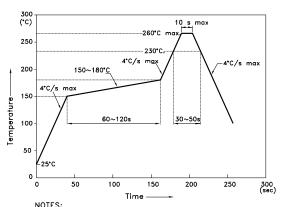
40° 50° 60° 70° 80°

90°

KP-3216SECK

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.

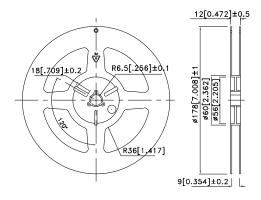
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
- to high temperature.

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

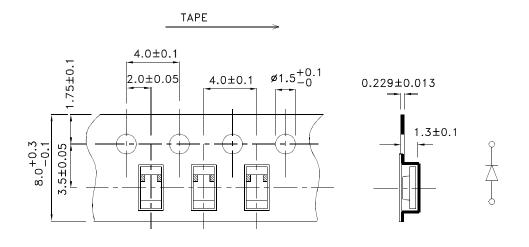
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

1.75 | 2.0 | 1.75

Reel Dimension

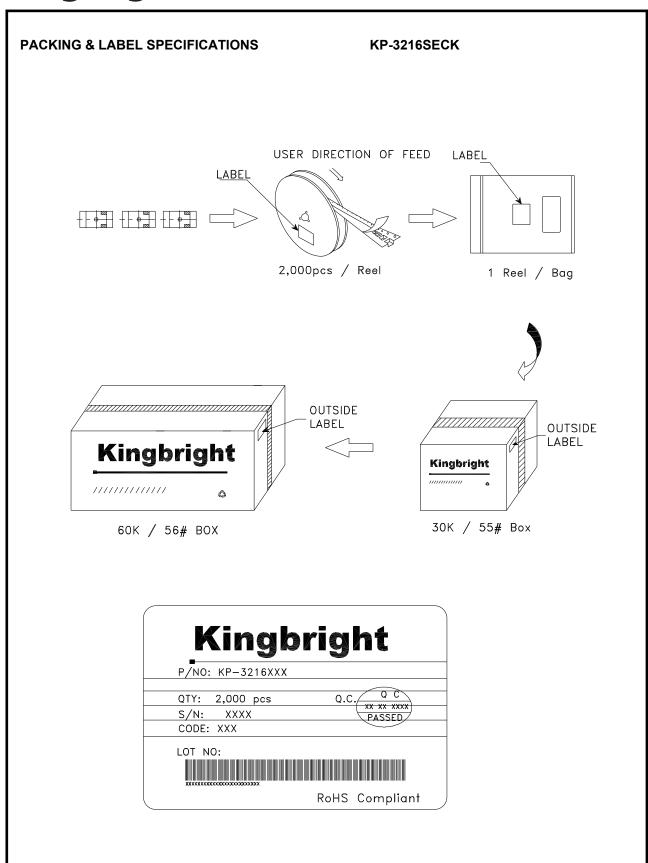


Tape Dimensions (Units : mm)



 SPEC NO: DSAB8603
 REV NO: V.10
 DATE: MAY/03/2010
 PAGE: 4 OF 5

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: SHANW
 ERP: 1203000396



SPEC NO: DSAB8603 APPROVED: WYNEC REV NO: V.10 CHECKED: Allen Liu DATE: MAY/03/2010 DRAWN: SHANW PAGE: 5 OF 5 ERP: 1203000396