

1.6X0.8mm SMD CHIP LED LAMP

Part Number: KPT-1608SECK

Super Bright Orange

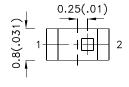
Features

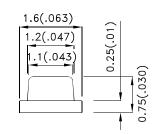
- 1.6mmX0.8mm SMT LED, 0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

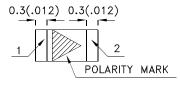
Description

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

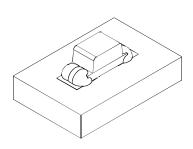
Package Dimensions











Notes:

- 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.

SPEC NO: DSAB1874 APPROVED: WYNEC REV NO: V.19A CHECKED: Allen Liu DATE: DEC/23/2011 DRAWN: D.M.Su PAGE: 1 OF 5 ERP: 1203001727



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPT-1608SECK	Super Bright Orange (AlGaInP)	Water Clear	120	250	- 120°
RP1-1000SECK		Water Clear	*80	*180	

- 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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	I==20mA
lr	Reverse Current	Super Bright Orange		10	uA	V _R =5V

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.

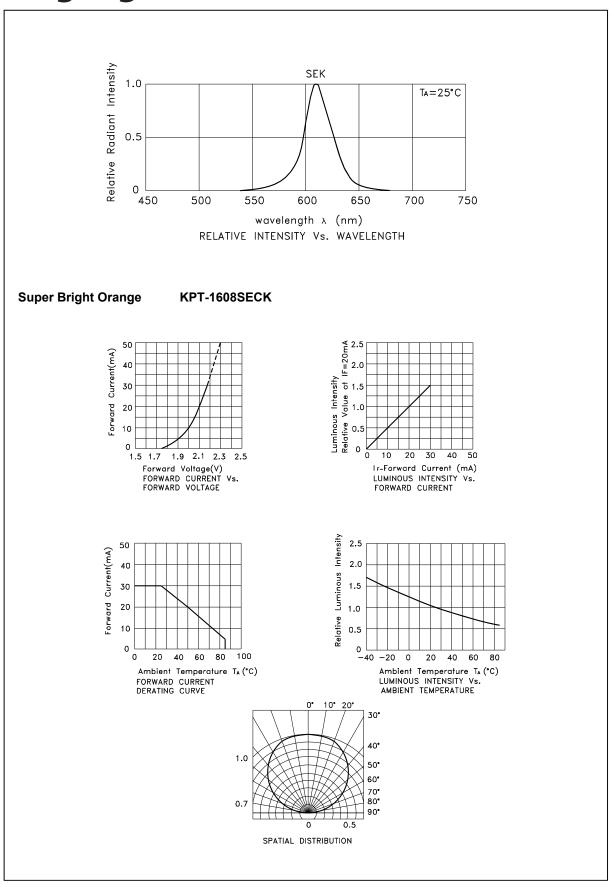
SPEC NO: DSAB1874 **REV NO: V.19A** DATE: DEC/23/2011 PAGE: 2 OF 5 ERP: 1203001727 **APPROVED: WYNEC** CHECKED: Allen Liu DRAWN: D.M.Su

^{2.} Luminous intensity/ luminous Flux: +/-15%.

* Luminous intensity/ value is traceable to the CIE127-2007 compliant national standards.

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

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 SPEC NO: DSAB1874
 REV NO: V.19A
 DATE: DEC/23/2011
 PAGE: 3 OF 5

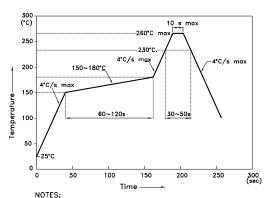
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KPT-1608SECK

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)

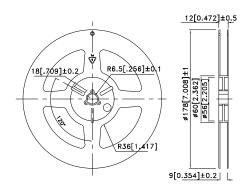
0.8

8.0

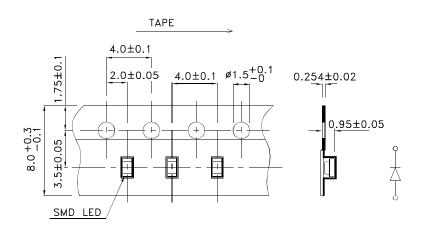
0.85

0.8

Reel Dimension

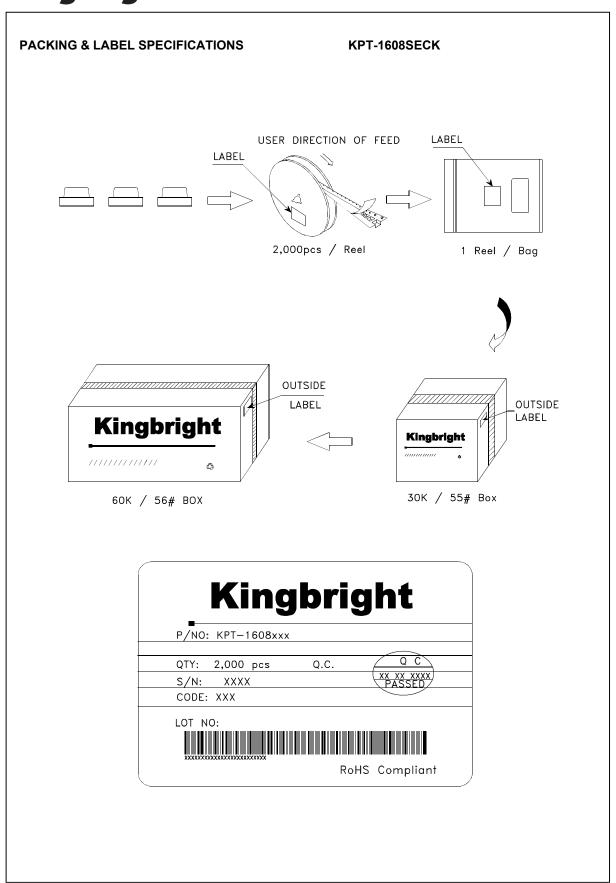


Tape Dimensions (Units: mm)



SPEC NO: DSAB1874 APPROVED: WYNEC REV NO: V.19A CHECKED: Allen Liu DATE: DEC/23/2011 DRAWN: D.M.Su PAGE: 4 OF 5 ERP: 1203001727

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SPEC NO: DSAB1874 APPROVED: WYNEC REV NO: V.19A CHECKED: Allen Liu DATE: DEC/23/2011 DRAWN: D.M.Su PAGE: 5 OF 5 ERP: 1203001727