

3.0mmx1.5mm SMD CHIP LED LAMP

Part Number: KPL-3015SECK

Super Bright Orange

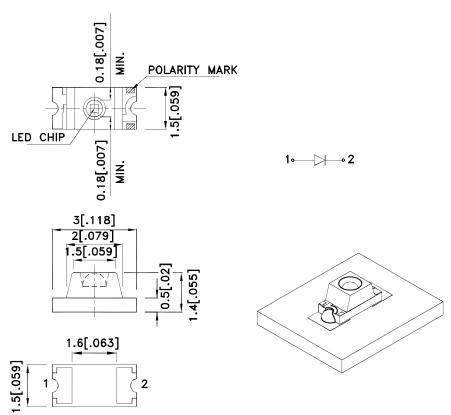
Features

- 3.0mmx1.5mm SMT LED, 1.4mm 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 ±0.2(0.008") unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAA4091 **REV NO: V.12A** DATE: OCT/28/2011 PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1203001611 DRAWN: D.M.Su

Selection Guide

Part No.	Dice Lens Type		lv (mcd) [2] Lens Type @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KDI 2045CECK	Super Bright Orange (AlGalnP)	Matan Class	350	600	70°
KPL-3015SECK		Water Clear	*120	*350	

- Notes:
 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	V _R =5V

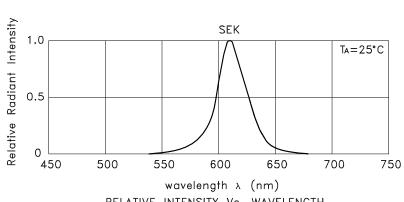
- Notes: 1.Wavelength: +/-1nm.
- 2.Forward Voltage: +/-0.1V.
- 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Orange	Units	
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		

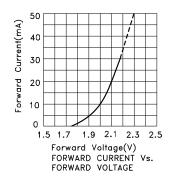
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

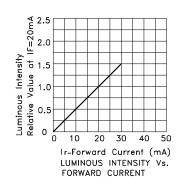
SPEC NO: DSAA4091 **REV NO: V.12A** DATE: OCT/28/2011 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: D.M.Su ERP: 1203001611

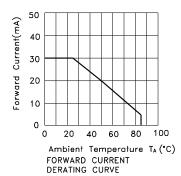


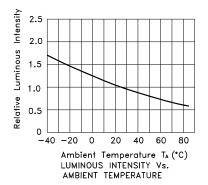
RELATIVE INTENSITY Vs. WAVELENGTH

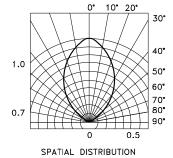
Super Bright Orange KPL-3015SECK









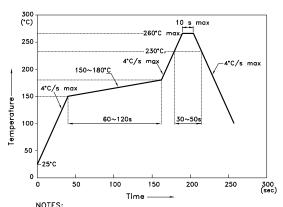


SPEC NO: DSAA4091 REV NO: V.12A **DATE: OCT/28/2011** PAGE: 3 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1203001611 DRAWN: D.M.Su

KPL-3015SECK

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.

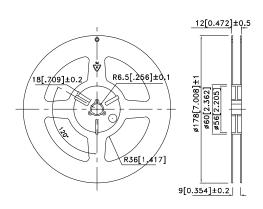
 3.Number of reflow process shall be 2 times or less.

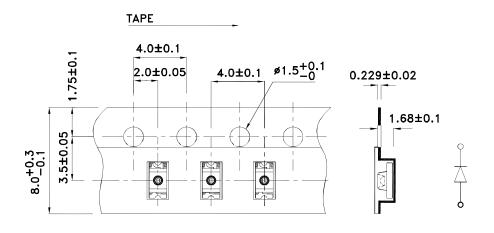
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

4.4

Tape Dimensions (Units : mm)

Reel Dimension



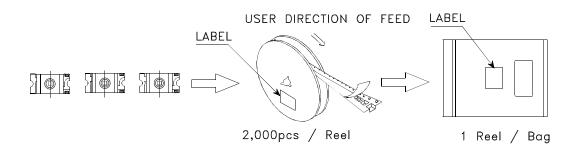


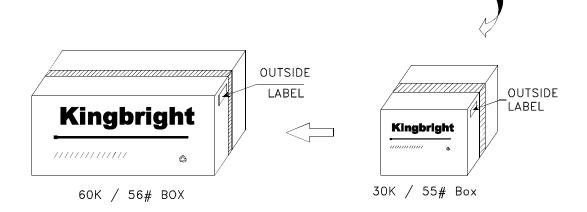
 SPEC NO: DSAA4091
 REV NO: V.12A
 DATE: OCT/28/2011
 PAGE: 4 OF 5

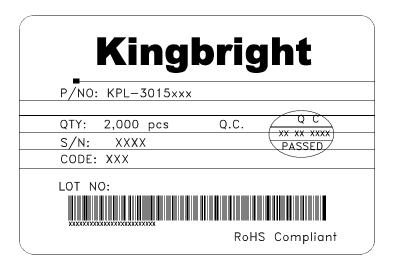
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PACKING & LABEL SPECIFICATIONS

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PAGE: 5 OF 5 ERP: 1203001611