## 3.2x2.8mm SURFACE MOUNT LED LAMP

Part Number: KA-3528SECKT-J4-09

Super Bright Orange

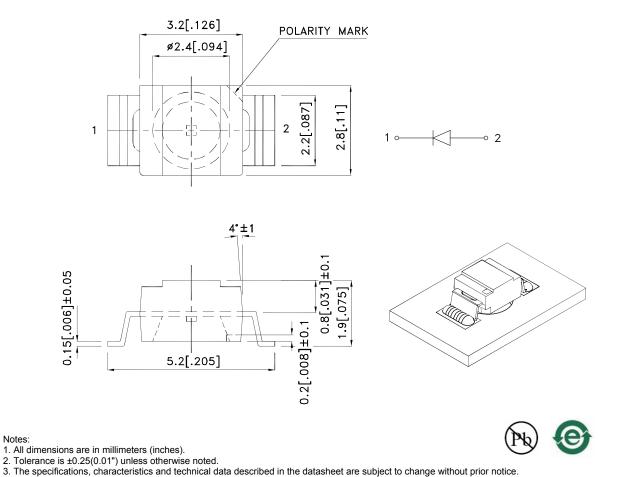
#### Features

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

#### Description

The Orange source color devices are made with AlGaInP Light Emitting Diode.

### Package Dimensions



The specifications, characteristics and technical data described in the datasheet are subject to change without p
The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAM4101

APPROVED: WYNEC

REV NO: V.1A CHECKED: Allen Liu DATE: MAR/12/2014 DRAWN: Y.Liu

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### Selection Guide

Selection Guide					
Part No.	Dice Lens Type	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KA-3528SECKT-J4-09	Super Bright Orange (AlGaInP)	Water Clear	1900	2700	120°
			*500	*800	

Notes:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

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	611		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	I⊧=20mA
С	Capacitance	Super Bright Orange	27		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Orange	2.2	2.8	V	l⊧=20mA
IR	Reverse Current	Super Bright Orange		10	uA	VR=5V

Notes:

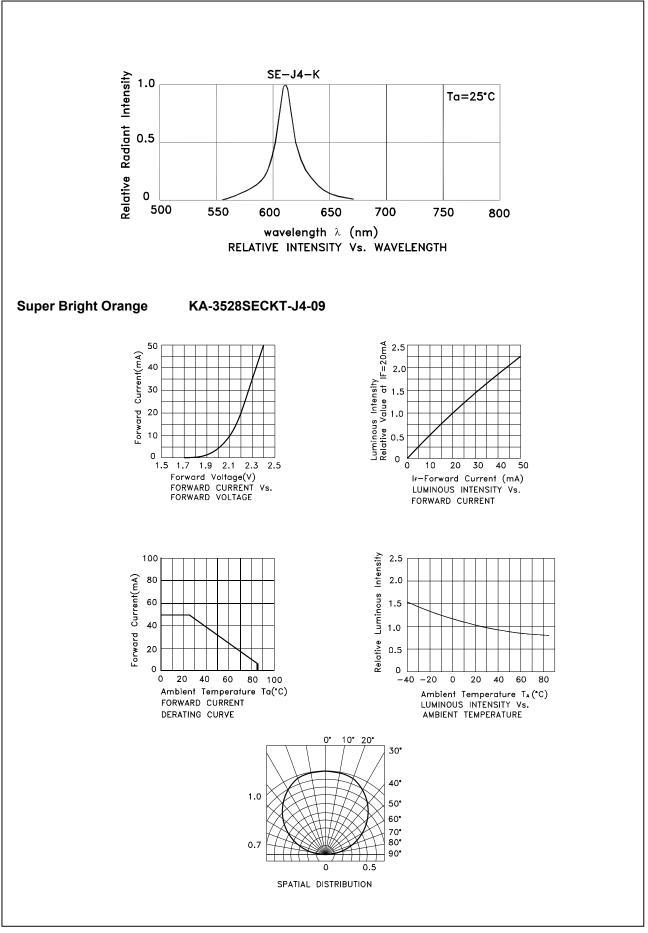
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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	140	mW		
DC Forward Current	50	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

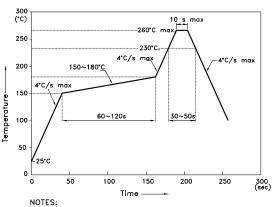
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.



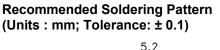
## KA-3528SECKT-J4-09

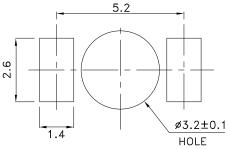
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

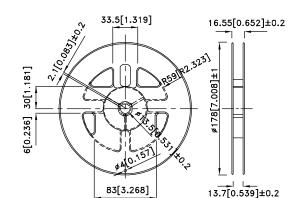
Reflow Soldering Profile For Lead-free SMT Process.



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.

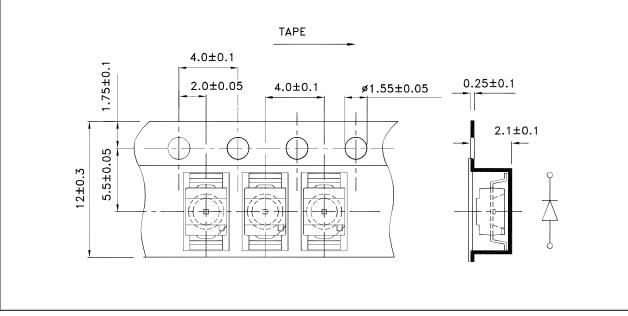






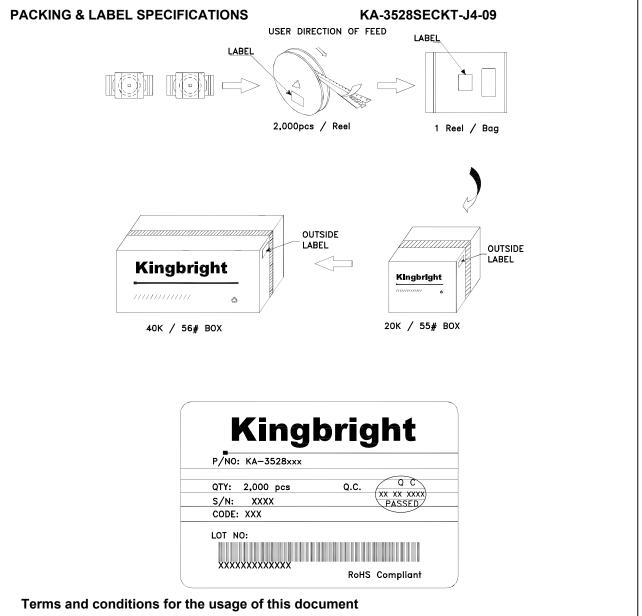
**Reel Dimension** 

**Tape Dimensions** (Units : mm)



DATE: MAR/12/2014 DRAWN: Y.Liu

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- 1. The information included in this document reflects representative usage scenarios and is intended for technical reference only.
- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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