

3.5x2.8mm SURFACE MOUNT LED LAMP

Part Number: AA3528SECK Super Bright Orange

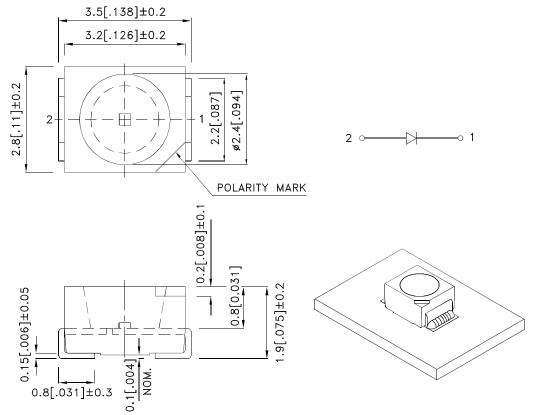
Features

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

Package Dimensions



SPEC NO: DSAD1230

APPROVED: WYNEC

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ 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.

REV NO: V.6A

CHECKED: Allen Liu

DATE: MAR/12/2013 PAGE: 1 OF 5 DRAWN: F.Cui ERP: 1201004775

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
AA3528SECK	Super Bright Orange (AlGaInP)	Water Clear	200	350	120°
AASSZOSECK		Water Clear	*120	*230	

- 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	I=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

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

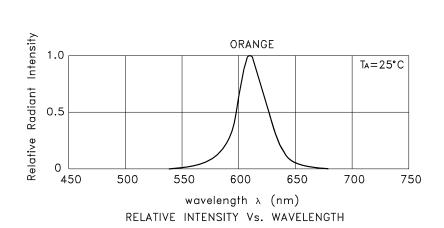
Absolute Maximum Ratings at TA=25°C

Absolute maximum ratings at 1A-20 0					
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				

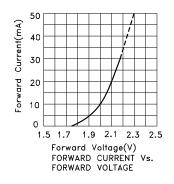
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

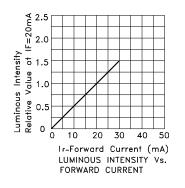
SPEC NO: DSAD1230 **REV NO: V.6A** DATE: MAR/12/2013 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: F.Cui ERP: 1201004775

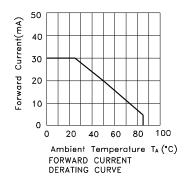
Luminous intensity/ luminous Flux: +/-15%.
 *Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

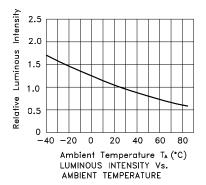


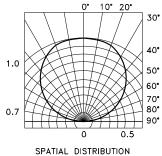
Super Bright Orange AA3528SECK











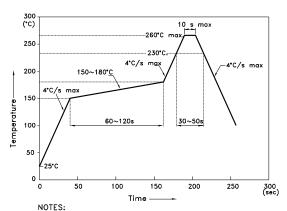
 SPEC NO: DSAD1230
 REV NO: V.6A
 DATE: MAR/12/2013
 PAGE: 3 OF 5

 APPROVED: WYNEC
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AA3528SECK

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.



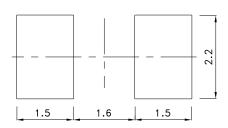
- NOTES:

 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.

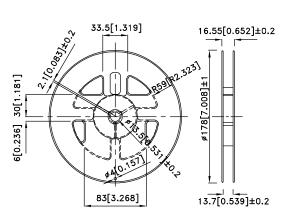
 3.Number of reflow process shall be 2 times or less.

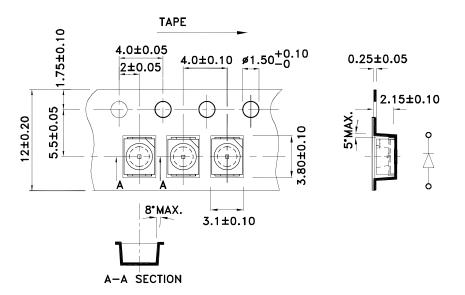
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units: mm)

Reel Dimension



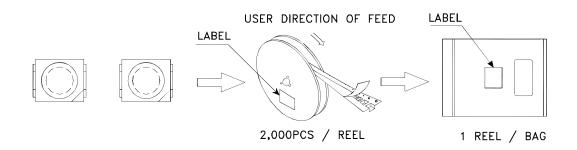


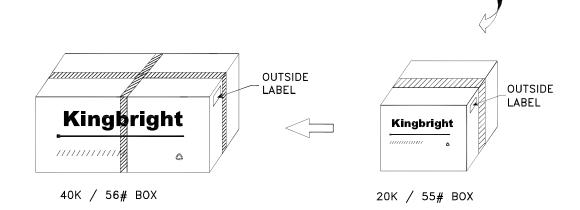
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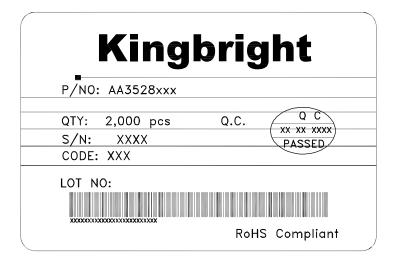
DATE: MAR/12/2013 PAGE: 4 OF 5 ERP: 1201004775

PACKING & LABEL SPECIFICATIONS

AA3528SECK







All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

SPEC NO: DSAD1230 APPROVED: WYNEC REV NO: V.6A CHECKED: Allen Liu DATE: MAR/12/2013 DRAWN: F.Cui PAGE: 5 OF 5 ERP: 1201004775