

2.8X0.8mm RIGHT ANGLE SMD CHIP LED **LAMP**

Part Number: KA-2810ASESK

Super Bright Orange

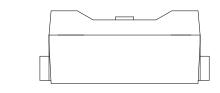
Features

- 2.8mmX0.8mm right angle SMT LED, 1.2mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Moisture sensitivity level : level 3.
- RoHS compliant.

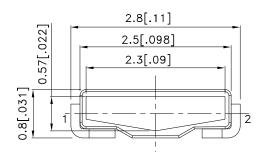
Description

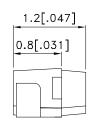
The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions

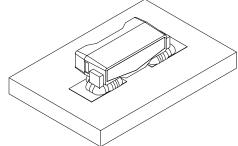
















- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.1(0.0039") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.

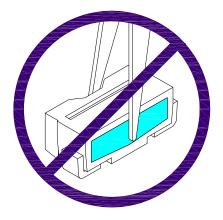
 4. The device has a single mounting surface. The device must be mounted according to the specifications.

DATE: DEC/18/2009 SPEC NO: DSAK2454 **REV NO: V.1** PAGE: 1 OF 6 APPROVED: WYNEC **CHECKED: Allen Liu** ERP: 1201005913 DRAWN: J.Yu

Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might leads to damage and premature failure of the LED.

Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



 SPEC NO: DSAK2454
 REV NO: V.1
 DATE: DEC/18/2009
 PAGE: 2 OF 6

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: J.Yu
 ERP: 1201005913

Selection Guide

Part No.	Dice	Lens Type	Lens Type Iv (mcd) [2] Viewing @ 20mA Angle [1]	Viewing Angle [1]	
		2.	Min.	Тур.	201/2
KA-2810ASESK	Super Bright Orange (AlGaInP)	WATER CLEAR	110	270	110°

- 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%.

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

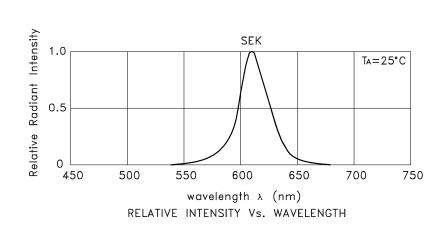
- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

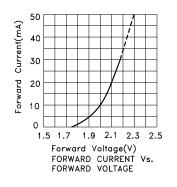
Parameter	Super Bright Orange	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	195	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

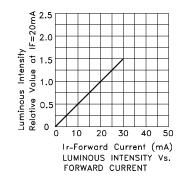
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

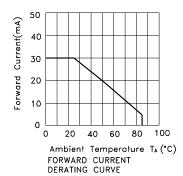
SPEC NO: DSAK2454 **REV NO: V.1** DATE: DEC/18/2009 PAGE: 3 OF 6 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu ERP: 1201005913

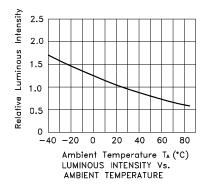


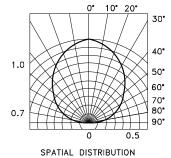
Super Bright Orange KA-2810ASESK











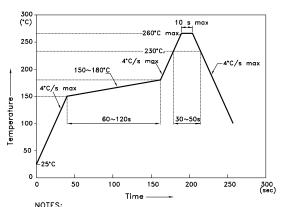
 SPEC NO: DSAK2454
 REV NO: V.1
 DATE: DEC/18/2009
 PAGE: 4 OF 6

 APPROVED: WYNEC
 CHECKED: Allen Liu
 DRAWN: J.Yu
 ERP: 1201005913

KA-2810ASESK

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:

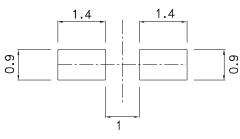
 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

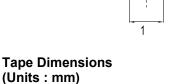
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
- to high temperature.

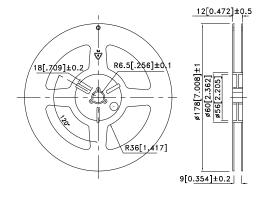
 3.Number of reflow process shall be 2 times or less.

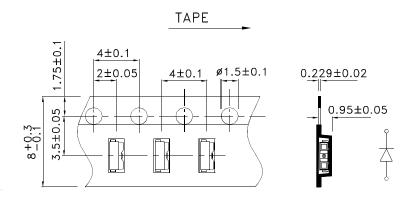
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

Reel Dimension

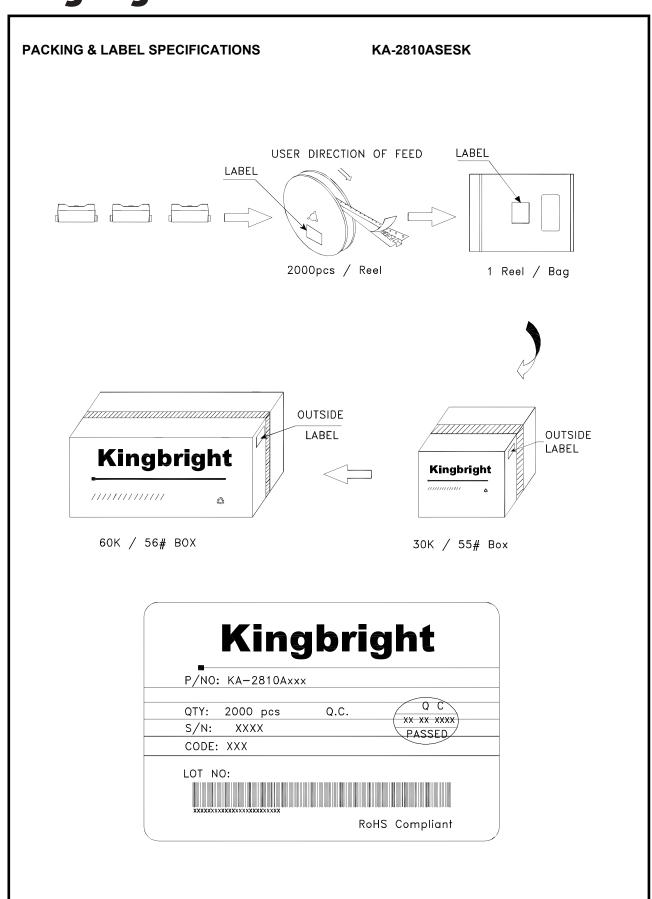








SPEC NO: DSAK2454 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: DEC/18/2009 DRAWN: J.Yu PAGE: 5 OF 6 ERP: 1201005913



SPEC NO: DSAK2454 APPROVED: WYNEC REV NO: V.1 CHECKED: Allen Liu DATE: DEC/18/2009 DRAWN: J.Yu PAGE: 6 OF 6 ERP: 1201005913