

SUBMINIATURE SOLID STATE LAMP

Part Number: AM27SECK09 Super Bright Orange

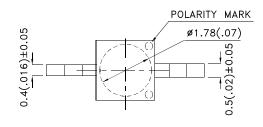
Features

- Subminiature package.
- Z-Bend lead.
- Long life solid state reliability.
- Low package profile.
- Package :1000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

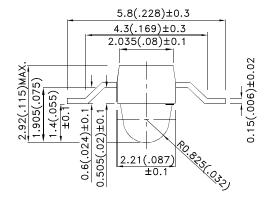
Description

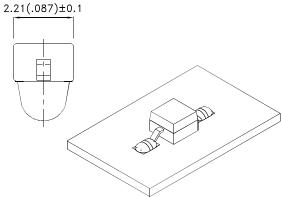
The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.

Package Dimensions









- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
- 5. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAD1331 **REV NO: V.6** DATE: APR/14/2011 PAGE: 1 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu ERP: 1202000336

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
AM27SECK09	Super Bright Orange (AlGaInP)	Water Clear	1800	2700	20°

- 1. θ1/2 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	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	I=20mA
lR	Reverse Current	Super Bright Orange		10	uA	V _R =5V

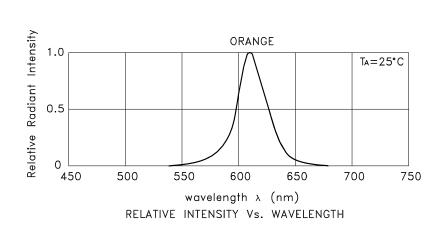
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

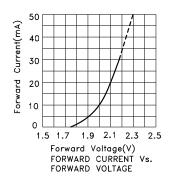
Parameter	Super Bright Orange	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	195	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

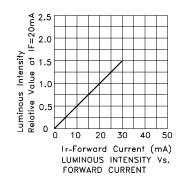
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

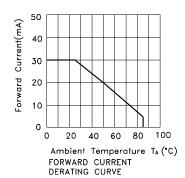
DATE: APR/14/2011 SPEC NO: DSAD1331 **REV NO: V.6** PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu ERP: 1202000336

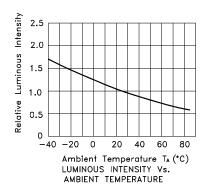


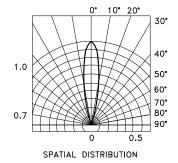
Super Bright Orange AM27SECK09











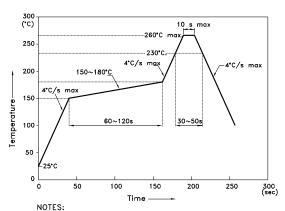
 SPEC NO: DSAD1331
 REV NO: V.6
 DATE: APR/14/2011
 PAGE: 3 OF 5

 APPROVED: WYNEC
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AM27SECK09

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.

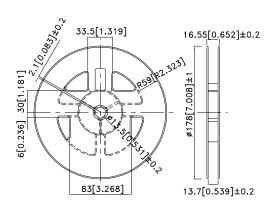
 3.Number of reflow process shall be 2 times or less.

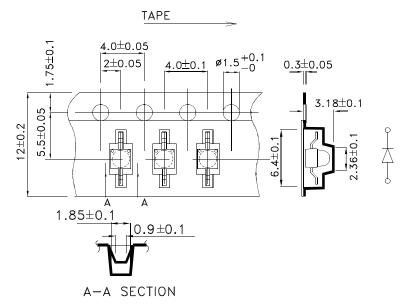
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

3.275 ø2 HOLE <u>1.5</u> 6.55

Tape Dimensions (Units: mm)

Reel Dimension

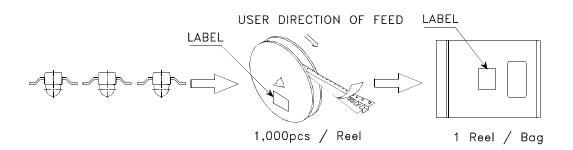


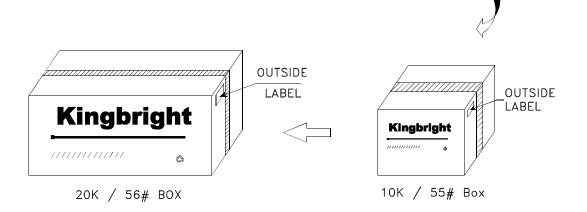


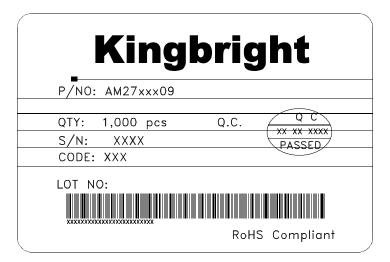
SPEC NO: DSAD1331 **REV NO: V.6** DATE: APR/14/2011 PAGE: 4 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu ERP: 1202000336

PACKING & LABEL SPECIFICATIONS

AM27SECK09







SPEC NO: DSAD1331 APPROVED: WYNEC REV NO: V.6 CHECKED: Allen Liu DATE: APR/14/2011 DRAWN: J.Yu PAGE: 5 OF 5 ERP: 1202000336