

3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTD3216SECK

Super Bright Orange

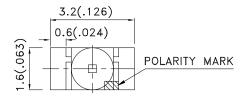
Features

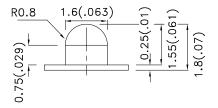
- 3.2mmX1.6mm SMT LED, 1.8mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- RoHS compliant.

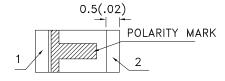
Description

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

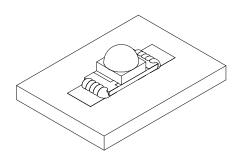
Package Dimensions











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2(0.008")$ 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: DSAC4693 **REV NO: V.9** DATE: APR/19/2011 PAGE: 1 OF 5 CHECKED: Allen Liu APPROVED: WYNEC ERP: 1203002276 DRAWN: J.Yu

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		,	Min.	Тур.	201/2
APTD3216SECK	Super Bright Orange (AlGaInP)	Water Clear	700	1600	50°

- 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	IF=20mA
lR	Reverse Current	Super Bright Orange		10	uA	V _R =5V

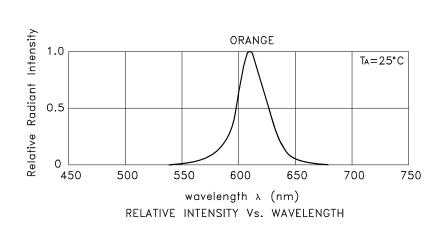
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

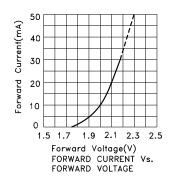
Parameter	Super Bright Orange	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	195	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

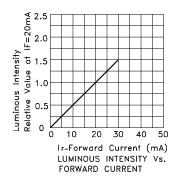
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

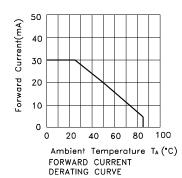
SPEC NO: DSAC4693 **REV NO: V.9** DATE: APR/19/2011 PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: J.Yu ERP: 1203002276

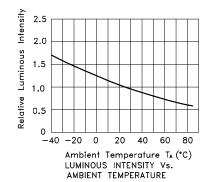


Super Bright Orange APTD3216SECK









0° 10° 20° 30° 40° 40° 50° 50° 60° 70° 80° 90° SPATIAL DISTRIBUTION

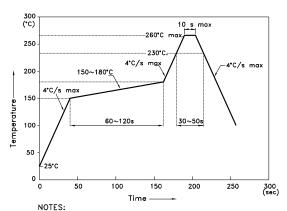
 SPEC NO: DSAC4693
 REV NO: V.9
 DATE: APR/19/2011
 PAGE: 3 OF 5

 APPROVED: WYNEC
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APTD3216SECK

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.



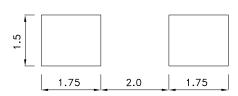
- NOTES:

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

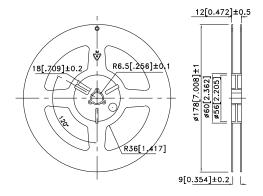
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 - to high temperature.

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

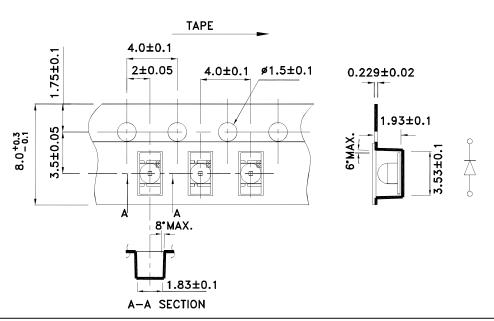
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Reel Dimension



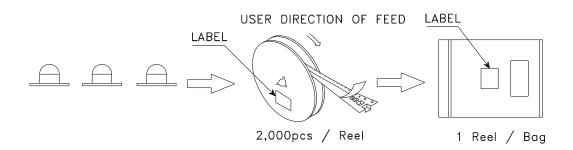
Tape Dimensions (Units: mm)

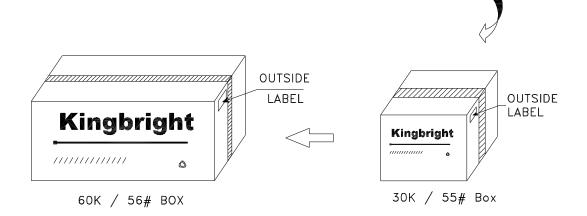


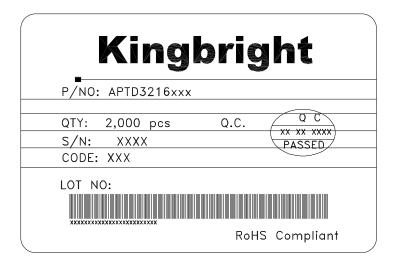
SPEC NO: DSAC4693 APPROVED: WYNEC REV NO: V.9 CHECKED: Allen Liu DATE: APR/19/2011 DRAWN: J.Yu PAGE: 4 OF 5 ERP: 1203002276

PACKING & LABEL SPECIFICATIONS

APTD3216SECK







SPEC NO: DSAC4693 APPROVED: WYNEC REV NO: V.9 CHECKED: Allen Liu DATE: APR/19/2011 DRAWN: J.Yu PAGE: 5 OF 5 ERP: 1203002276