### 2.0x1.25mm SMD CHIP LED LAMP

Part Number: APHCM2012SECK-F01

Super Bright Orange

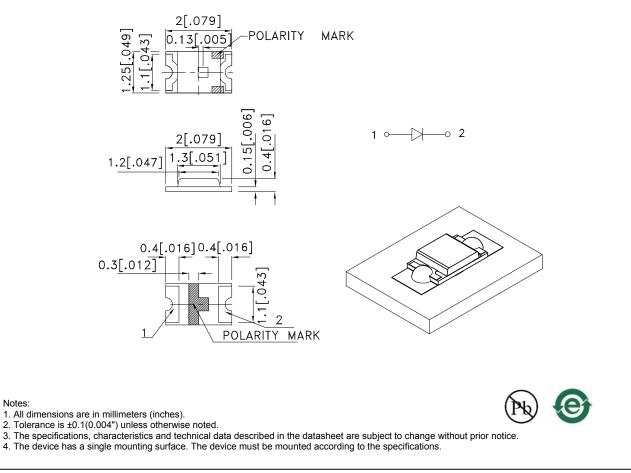
#### Features

- 2.0X1.25mm SMT LED,0.5mm max. thickness.
- Low power consumption.
- Wide viewing angle.
- 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**



SPEC NO: DSAF1342 APPROVED: WYNEC REV NO: V.5A CHECKED: Allen Liu DATE: DEC/22/2011 DRAWN: H.L.Ding PAGE: 1 OF 5 ERP: 1203003842

#### **Selection Guide** lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. Dice Lens Type 201/2 Min. Тур. 120 250 APHCM2012SECK-F01 Super Bright Orange (AlGaInP) Water Clear 110° \*80 \*180

Notes:

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

2. Luminous intensity/ luminous Flux: +/-15%.

\*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	610		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	I⊧=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	Vr=5V

Notes:

1.Wavelength: +/-1nm.

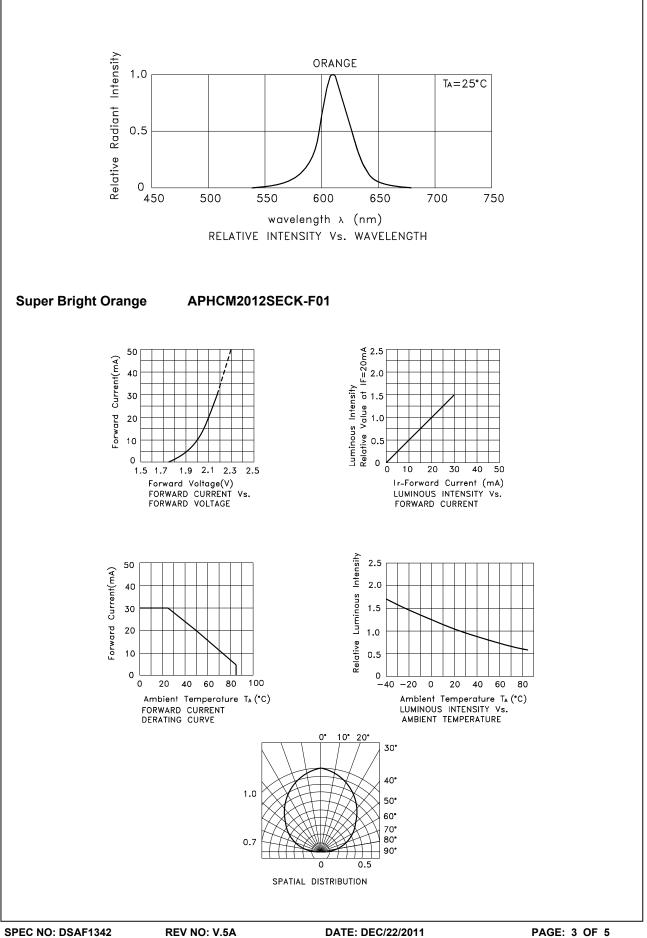
2. Forward Voltage: +/-0.1V.
3.Wavelength value is traceable to the CIE127-2007 compliant national standards.

#### Absolute Maximum Ratings at TA=25°C

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

Note:

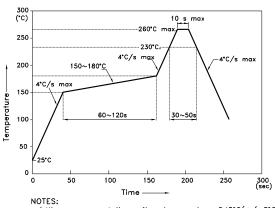
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



### APHCM2012SECK-F01

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.

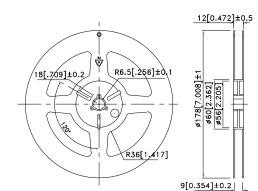
Reflow Soldering Profile For Lead-free SMT Process.



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.



### 1.2 1.2 2 2.1 2.1



**Reel Dimension** 

