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

Part Number: KPHCM-2012SECK

Super Bright Orange

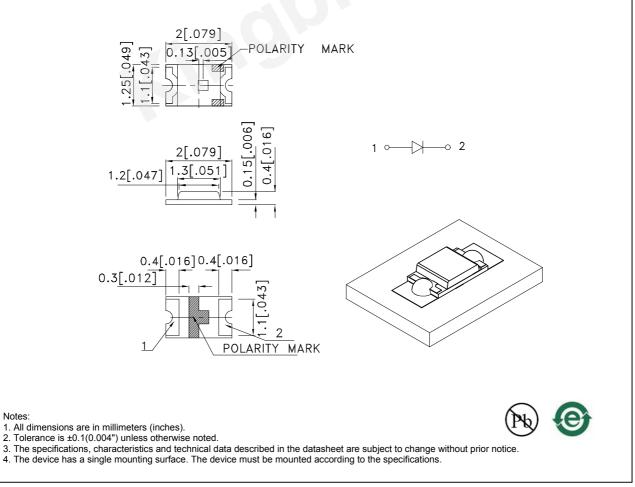
#### Features

- 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



REV NO: V.8A CHECKED: Allen Liu DATE: DEC/22/2011 DRAWN: H.L.Ding PAGE: 1 OF 5 ERP: 1203003842

#### Salastian Cuida

Part No.	Dice	Lens Type		Dice Lens Type @ 20mA			Viewing Angle [1]
			Min. Typ.		201/2		
KPHCM-2012SECK	Super Dright Orange (AlColpD)	Water Clear	120	250	- 110°		
	Super Bright Orange (AlGaInP)		*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.

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.

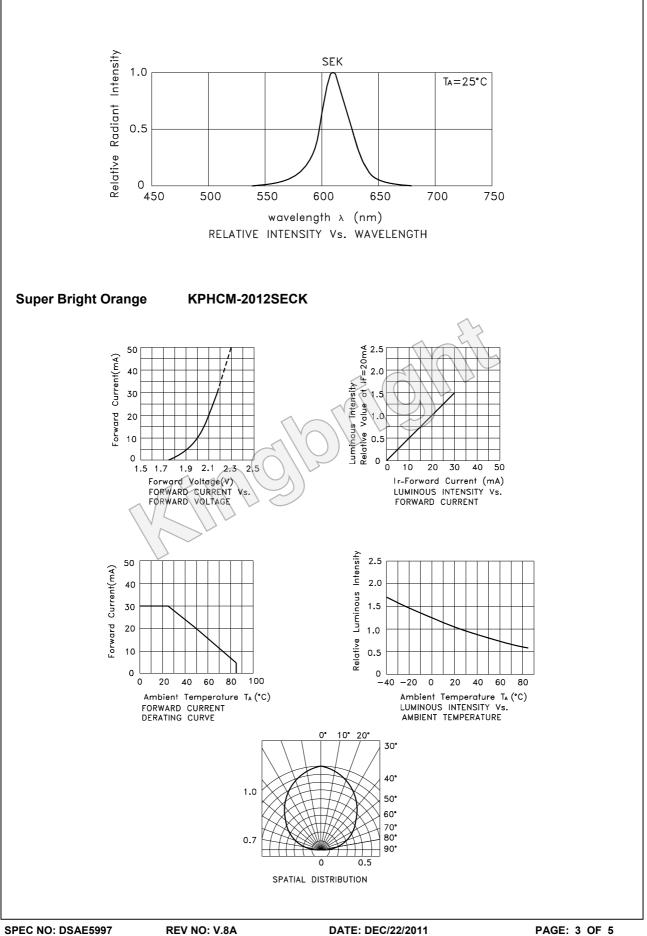
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

#### 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			

Note:

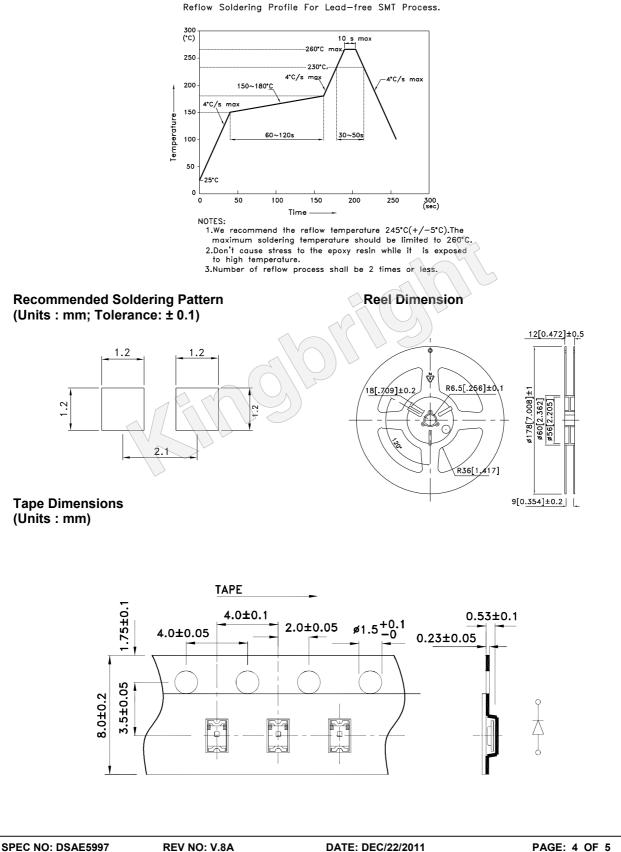
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



### **KPHCM-2012SECK**

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.





**APPROVED: WYNEC** 

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