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

Part Number: APT2012SECK/J4-PRV

Super Bright Orange

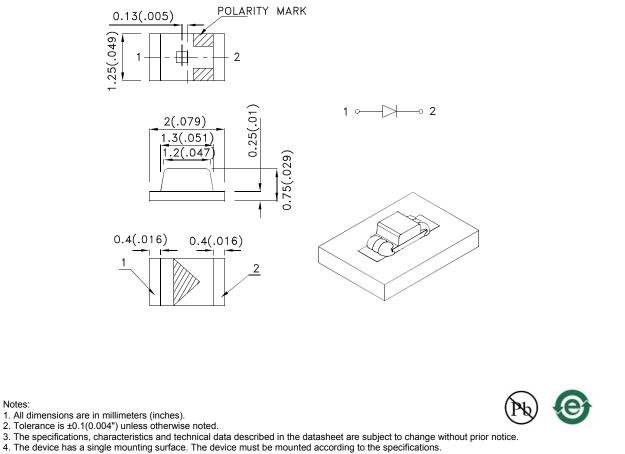
#### **Features**

- 2.0mm x1.25mm SMT LED,0.75mm 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 Orange source color devices are made with AlGaInP Light Emitting Diode.

#### **Package Dimensions**



Notes:

DATE: JUN/17/2013 DRAWN: Q.M.Chen

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### Selection Guide

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APT2012SECK/J4-PRV	Super Bright Orange (AlColnD)	Water Clear	1300	2000	- 120°
	Super Bright Orange (AlGaInP)		*300	*550	

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	611		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	605		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange	17		nm	I⊧=20mA
С	Capacitance	Super Bright Orange	27		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Orange	2.2	2.8	V	l⊧=20mA
IR	Reverse Current	Super Bright Orange		10	uA	VR=5V

Notes:

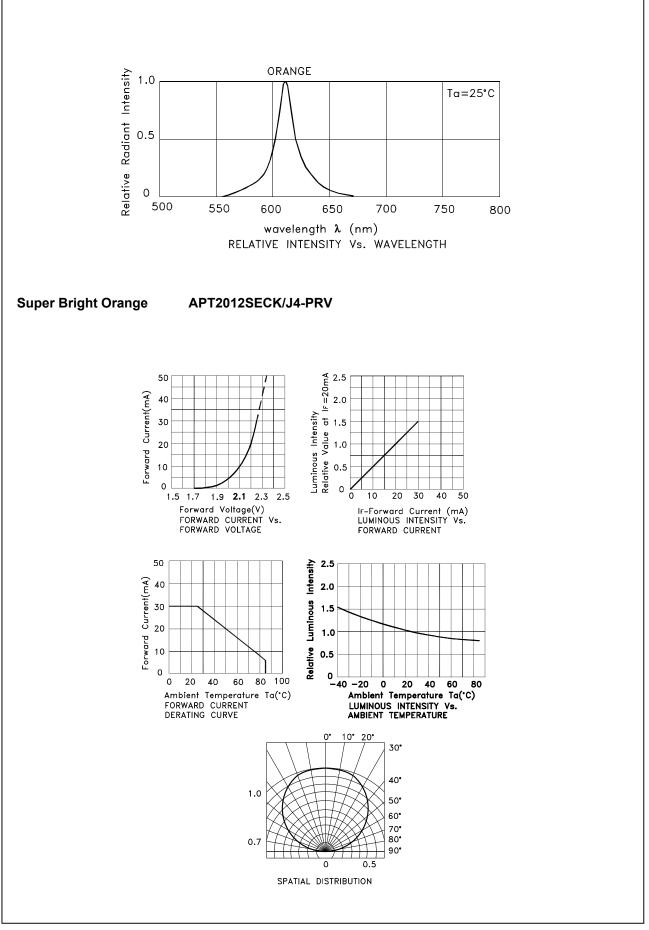
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

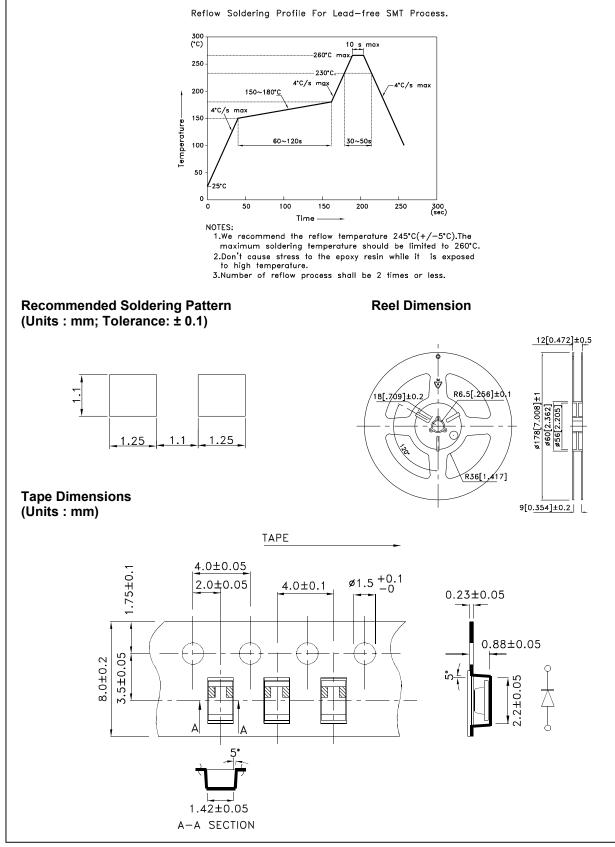
Parameter	Super Bright Orange	Units	
Power dissipation	84	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	150	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

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

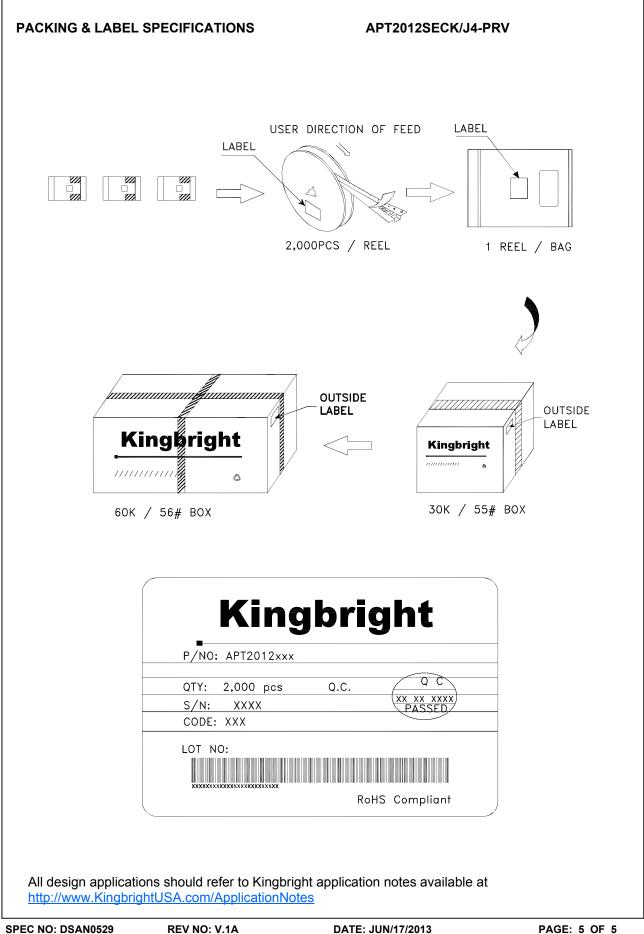


### APT2012SECK/J4-PRV

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.



SPEC NO: DSAN0529 APPROVED: WYNEC REV NO: V.1A CHECKED: Allen Liu DATE: JUN/17/2013 DRAWN: Q.M.Chen PAGE: 4 OF 5 ERP: 1203013852



REV NO: V.1A CHECKED: Allen Liu DATE: JUN/17/2013 DRAWN: Q.M.Chen