2.0x1.25mm SMD CHIP LED LAMP

Part Number: APT2012SECK/J4-PRV

Super Bright Orange



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

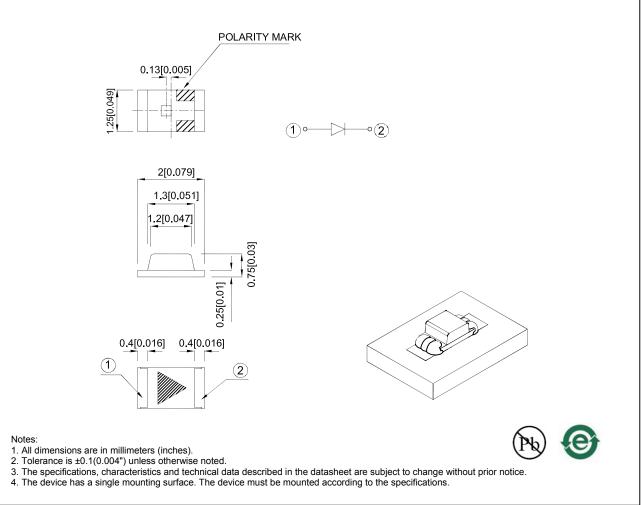
Features

- 2.0mmx1.25mm SMD LED,0.75mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Descriptions

- The Orange source color devices are made with AlGaInP Light Emitting Diode.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAN0529 APPROVED: Wynec REV NO: V.3A CHECKED: Allen Liu DATE: JAN/04/2017 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1203013852

Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APT2012SECK/J4-PRV	Super Bright Orange (AlGaInP)	Water Clear	1300	2000	140°
			*300	*550	

Notes:

1. θ 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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	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	I⊧=20mA
lr	Reverse Current	Super Bright Orange		10	uA	VR=5V

Notes:

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

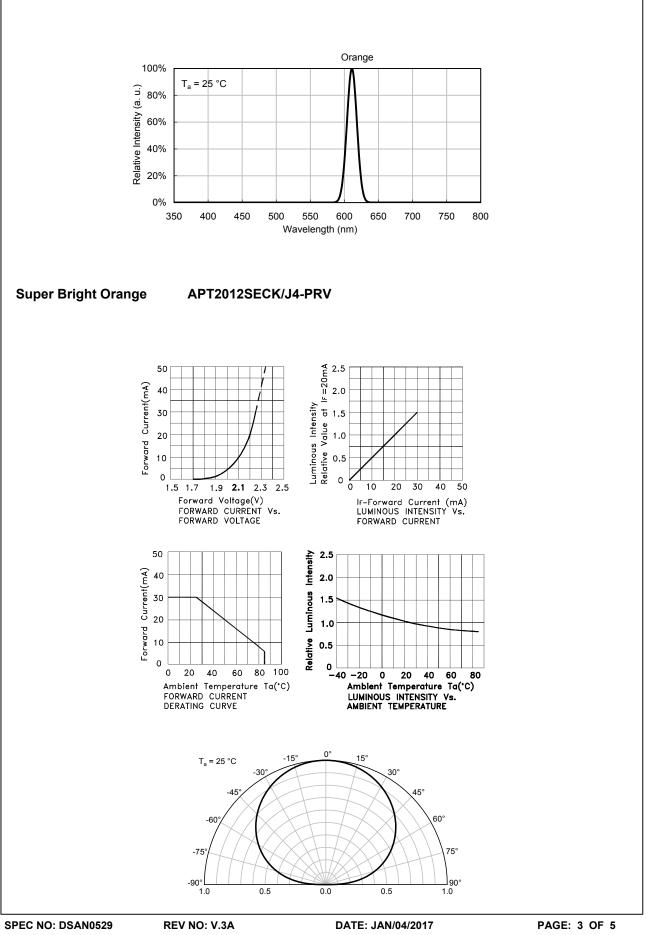
3. Wavelength value is traceable to CIE127-2007 standards.

4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Values	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			

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.



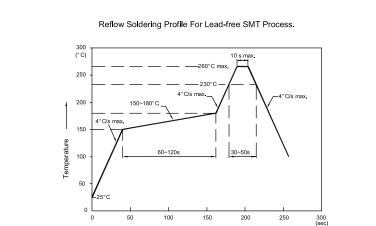
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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



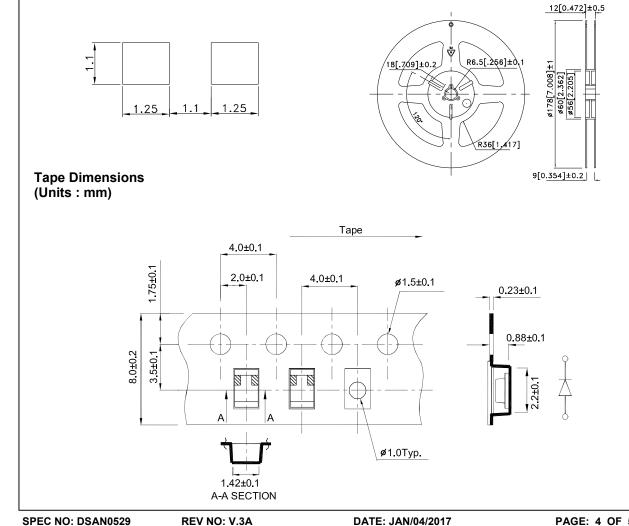


 We recommend the reflow temperature 245° C(+/-5° C). The maximum soldering temperature should be limited to 260° C.
 Don't cause stress to the epoxy resin while it is exposed

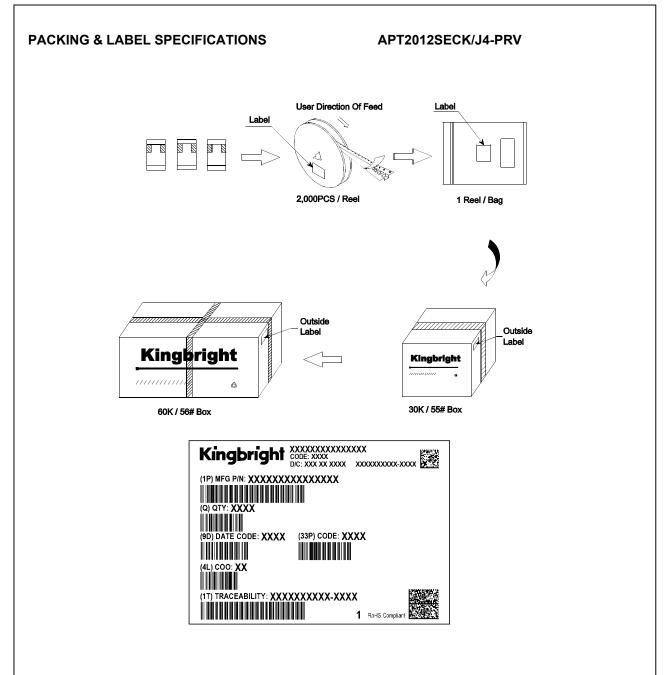
to high temperature. 3.Number of reflow process shall be 2 times or less.



Reel Dimension



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