### 4.5x2mm SMD CHIP LED LAMP

Part Number: APD2520SECK03

Super Bright Orange

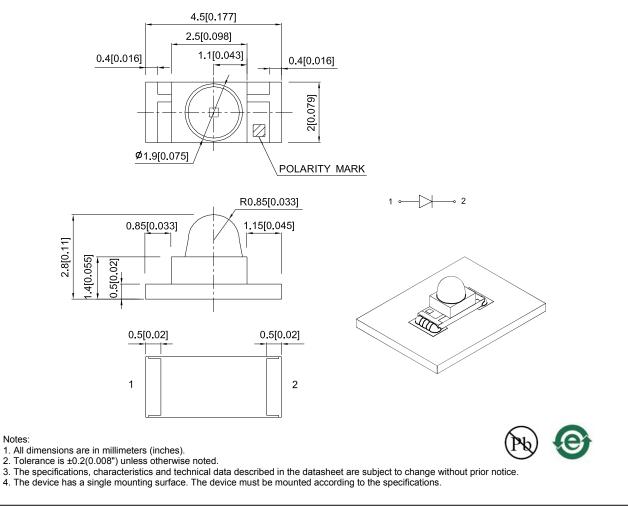
#### Features

- 4.5x2mm SMT LED,2.8mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Package : 1000pcs/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



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#### Salaatian Cuida

Selection Guide					
Part No.	Dice Lens Type		Lens Type Iv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APD2520SECK03	Super Pright Orange (AlColnD)	Water Clear	1600	2300	- 10°
	Super Bright Orange (AlGaInP)		*500	*1000	

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%.

3. 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

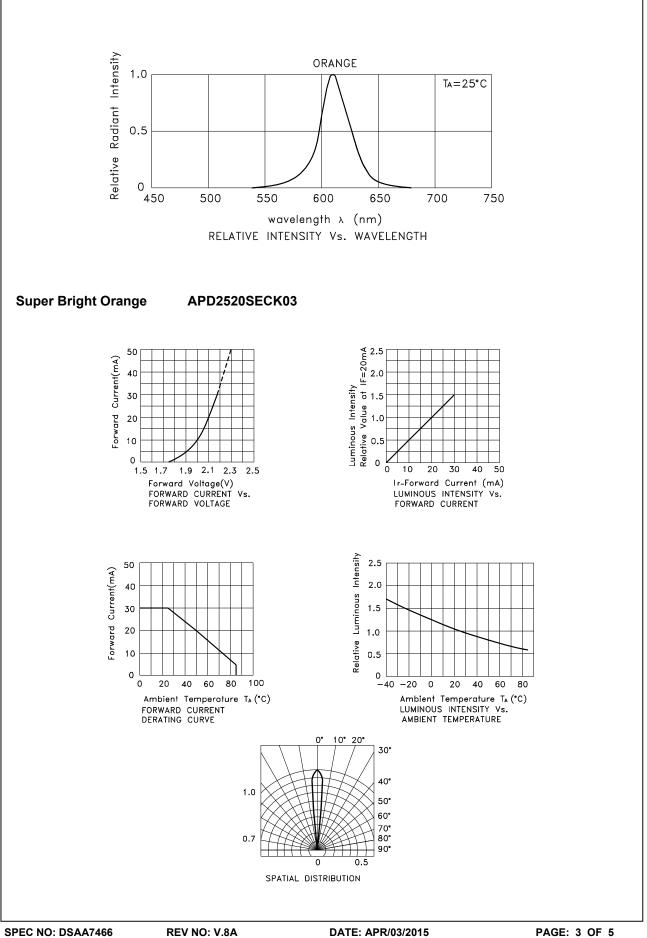
Notes: 1. Wavelength: + / -1nm. 2. Forward Voltage: + / -0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

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	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			

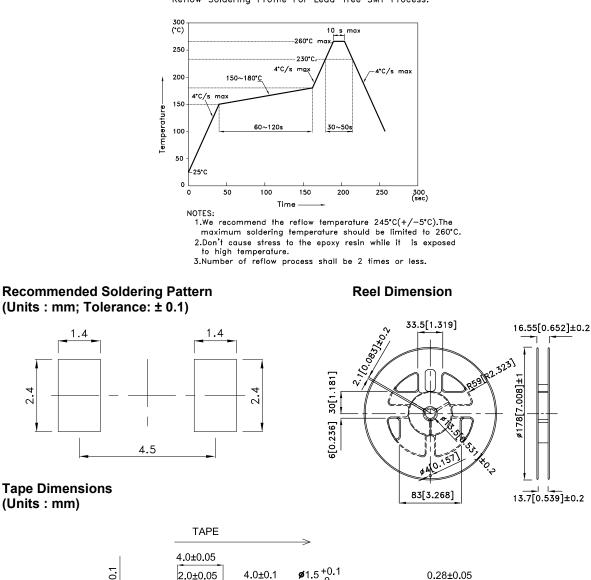
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

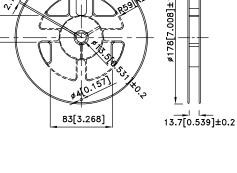


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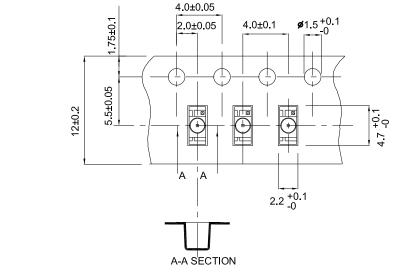
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.





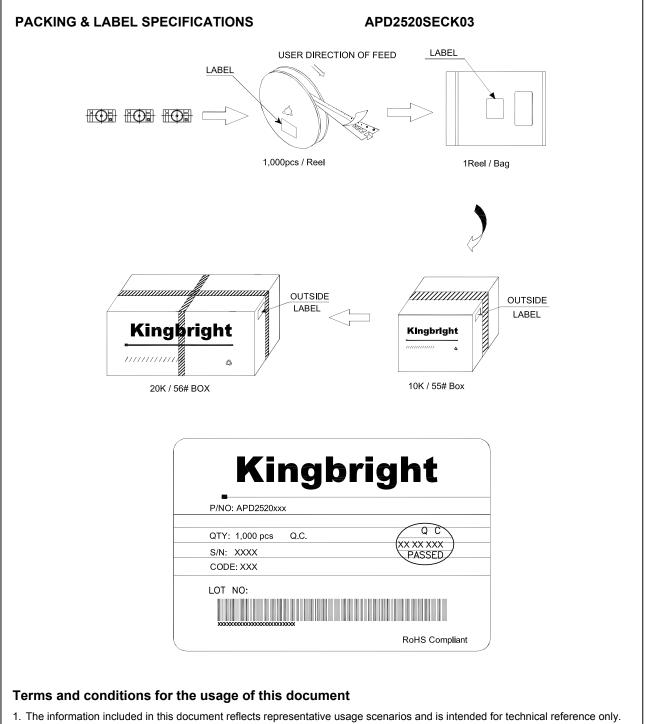
3.0 +0.1



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- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement without notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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