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Kingbright APTD1608SECK

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#### 1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608SECK

Super Bright Orange

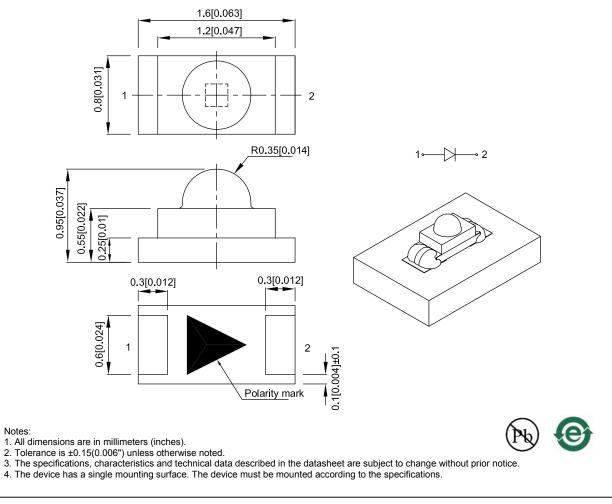
#### Features

- 1.6mmX0.8mm SMD LED, 0.95mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- 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: DSAJ7592

REV NO: V.7A



#### Selection Guide

			lv (mo	Viewing	
Part No.	Emitting Color (Material)	Lens Type	@ 20mA Min. Typ.		Angle [1] 201/2
		Water Clear	400	700	- 60°
APTD1608SECK	Super Bright Orange (AlGaInP)		*200	*500	

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 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	610		nm	l⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	l⊧=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	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 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

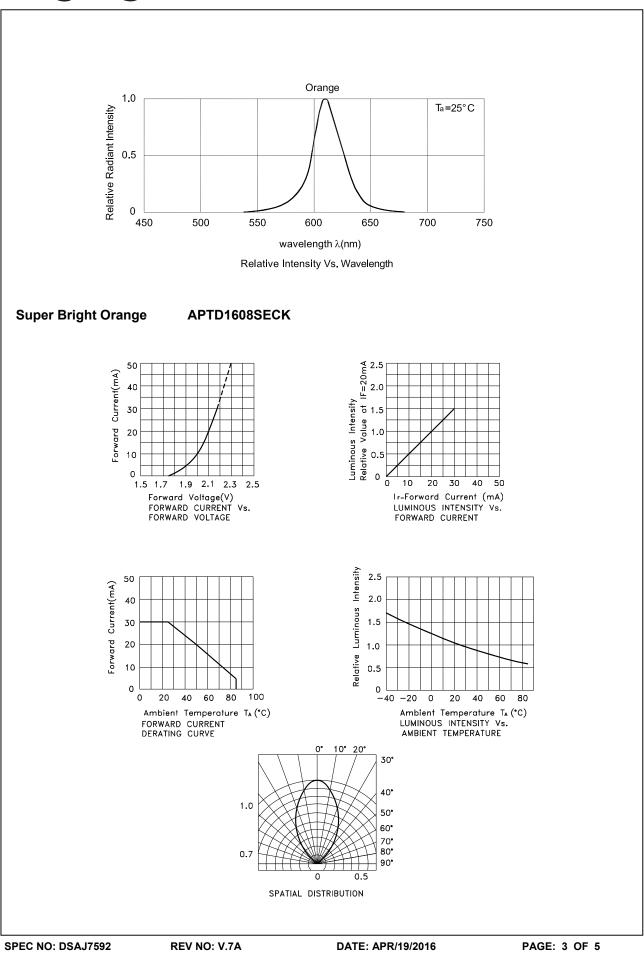
Parameter	Values	Units			
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	195	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C	-40°C To +85°C			
Storage Temperature	-40°C To +85°C				

Notes:

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

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.

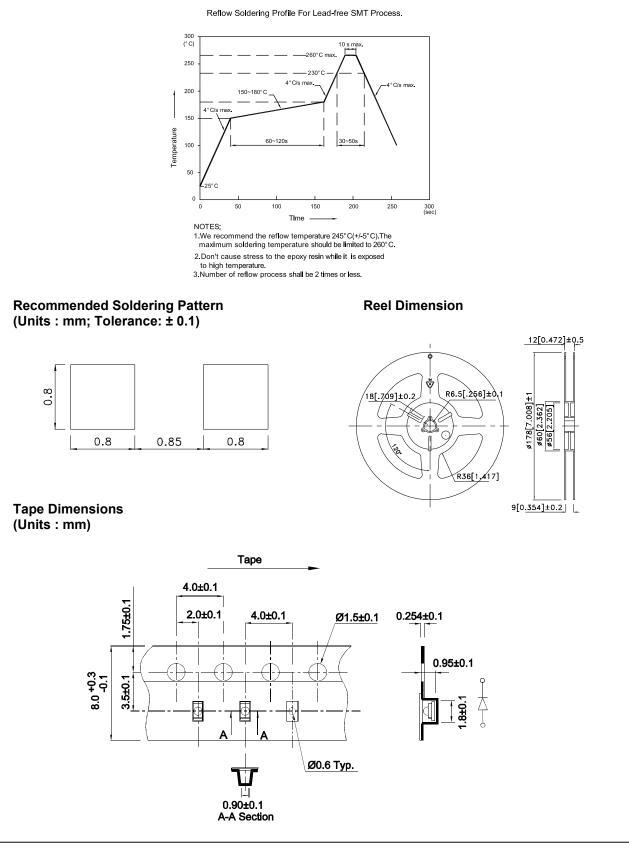






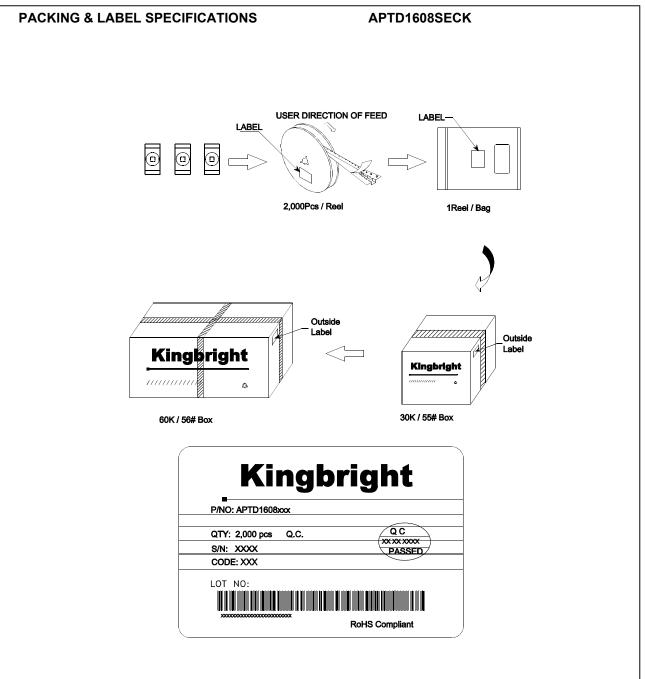
#### APTD1608SECK

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: DSAJ7592





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