

1.6X0.8mm SMD CHIP LED LAMP

Part Number: APTD1608LSECK/J4-PF

Super Bright Orange

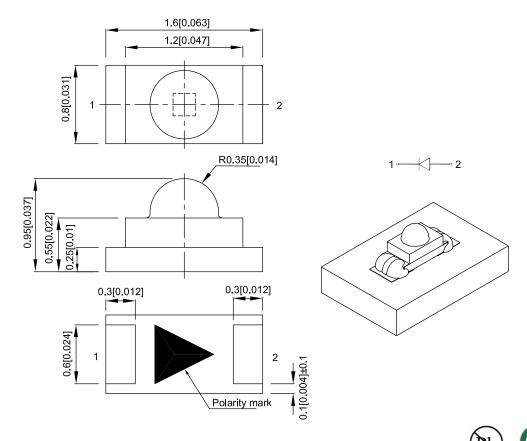
Features

- 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.
- Low current IF=2mA operating.
- RoHS compliant.

Description

The Orange source color devices are made with AlGaInP Light Emitting Diode.

Package Dimensions



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.15(0.006") unless otherwise noted.
- The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
 The device has a single mounting surface. The device must be mounted according to the specifications.

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Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Тур.	201/2
APTD1608LSECK/J4-PF	Super Bright Orange (AlGaInP)	Water Clear	250	450	- 60°
			*80	*150	

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 CIE127-2007 standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	Min.	Тур.	Max.	Units	Test Conditions		
λpeak	Peak Wavelength	Super Bright Orange		611		nm	IF=2mA		
λD [1]	Dominant Wavelength	Super Bright Orange		605		nm	IF=2mA		
Δλ1/2	Spectral Line Half-width	Super Bright Orange		17		nm	IF=2mA		
С	Capacitance	Super Bright Orange		27		pF	VF=0V;f=1MHz		
VF [2]	Forward Voltage	Super Bright Orange	1.5	1.8	2.1	V	IF=2mA		
lr	Reverse Current	Super Bright Orange			10	uA	V _R =5V		

Notes:

- 1. Wavelength: +/-1nm.

- 2. Forward Voltage: +/-0.1V.

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

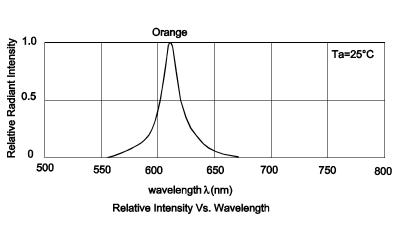
 4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

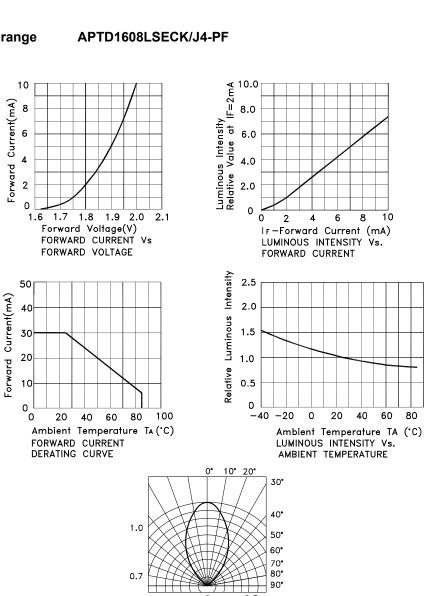
Parameter	Values	Units		
Power dissipation	63	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

- 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.

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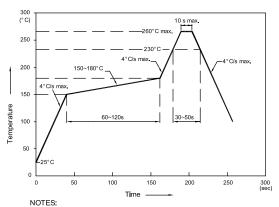
SPATIAL DISTRIBUTION

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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.

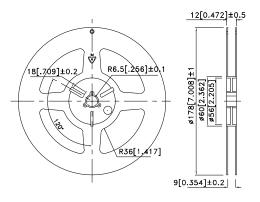


- 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C.
- 2.Don't cause stress to the epoxy resin while it is exposed
- to high temperature.
 3.Number of reflow process shall be 2 times or less.

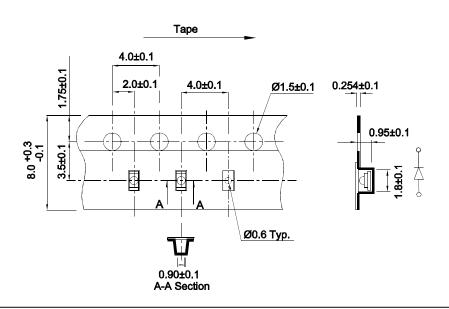
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

0.8 0.85 0.8

Reel Dimension



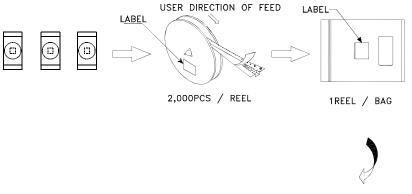
Tape Dimensions (Units: mm)

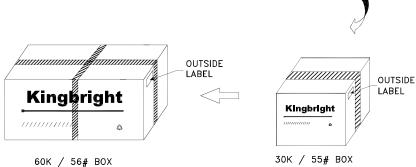


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PACKING & LABEL SPECIFICATIONS

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