

Part Number: APT1608LSECK/J4-PRV

Super Bright Orange

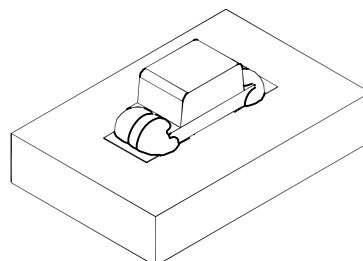
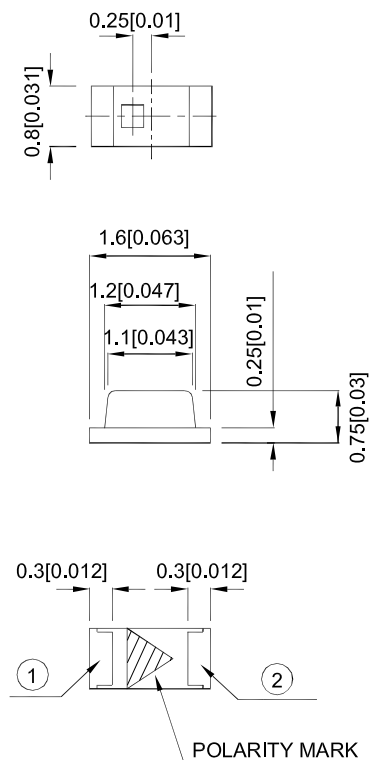
Features

- 1.6mmX0.8mm SMT LED, 0.75mm 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



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1 (0.004") unless otherwise noted.
3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
4. The device has a single mounting surface. The device must be mounted according to the specifications.



Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min.	Typ.	2θ1/2
APT1608LSECK/J4-PRV	Super Bright Orange (AlGaInP)	Water Clear	80	150	120°
			*30	*50	

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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	Super Bright Orange		611		nm	I _F =2mA
λ_D [1]	Dominant Wavelength	Super Bright Orange		605		nm	I _F =2mA
$\Delta\lambda_{1/2}$	Spectral Line Half-width	Super Bright Orange		17		nm	I _F =2mA
C	Capacitance	Super Bright Orange		27		pF	V _F =0V;f=1MHz
V _F [2]	Forward Voltage	Super Bright Orange	1.5	1.8	2.1	V	I _F =2mA
I _R	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 the CIE127-2007 compliant national standards.

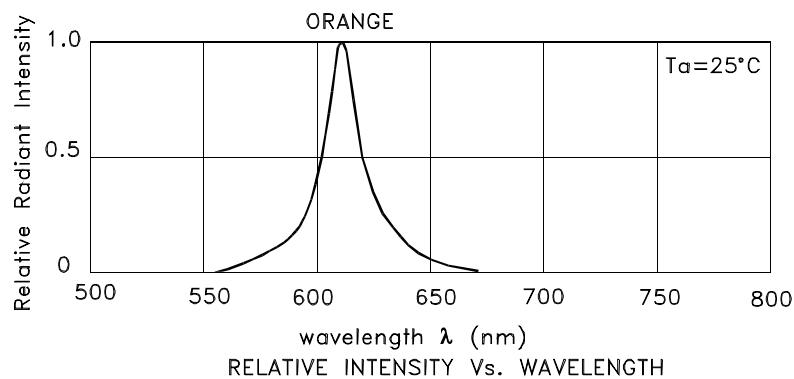
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Orange	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	

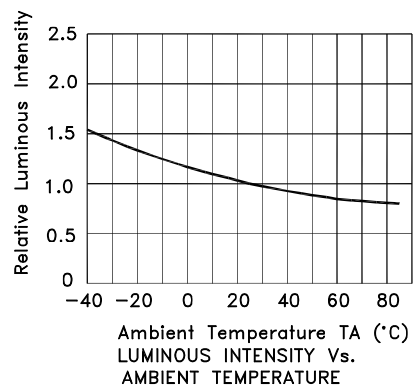
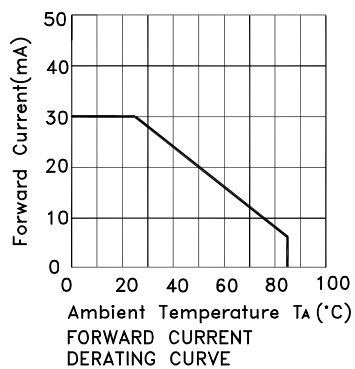
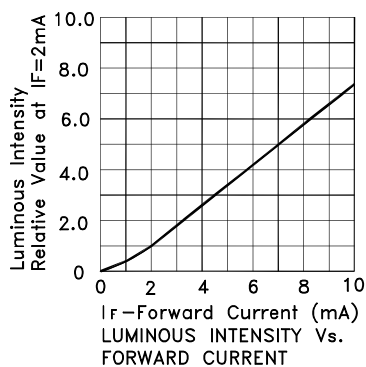
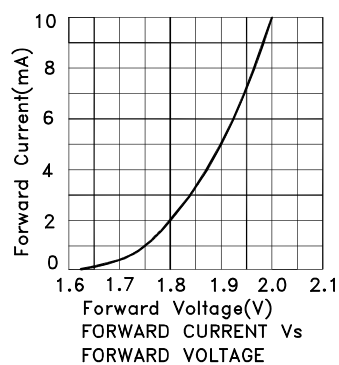
Note:

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



Super Bright Orange

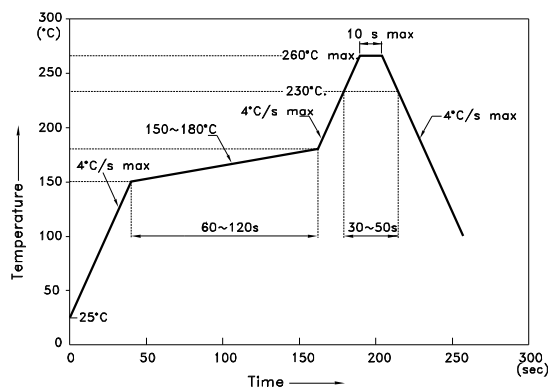
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Reflow soldering is recommended and the soldering profile is shown below.
Other soldering methods are not recommended as they might cause damage to the product.

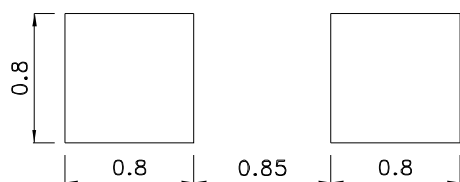
Reflow Soldering Profile For Lead-free SMT Process.



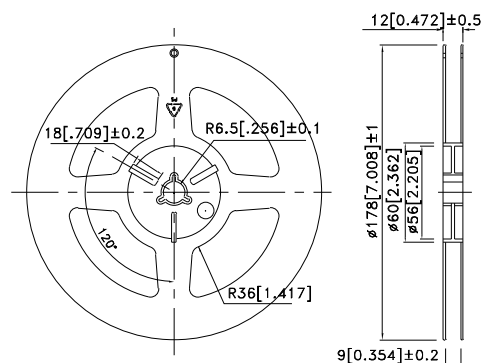
NOTES:

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.

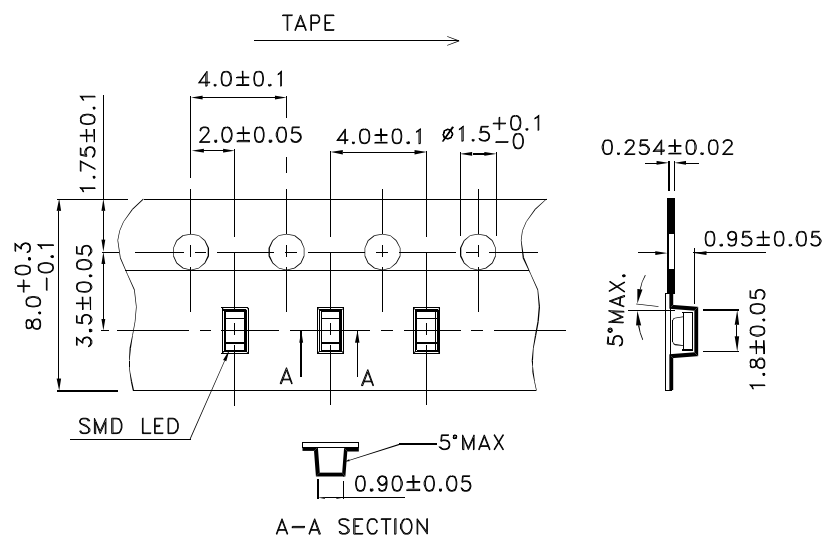
Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)



Reel Dimension

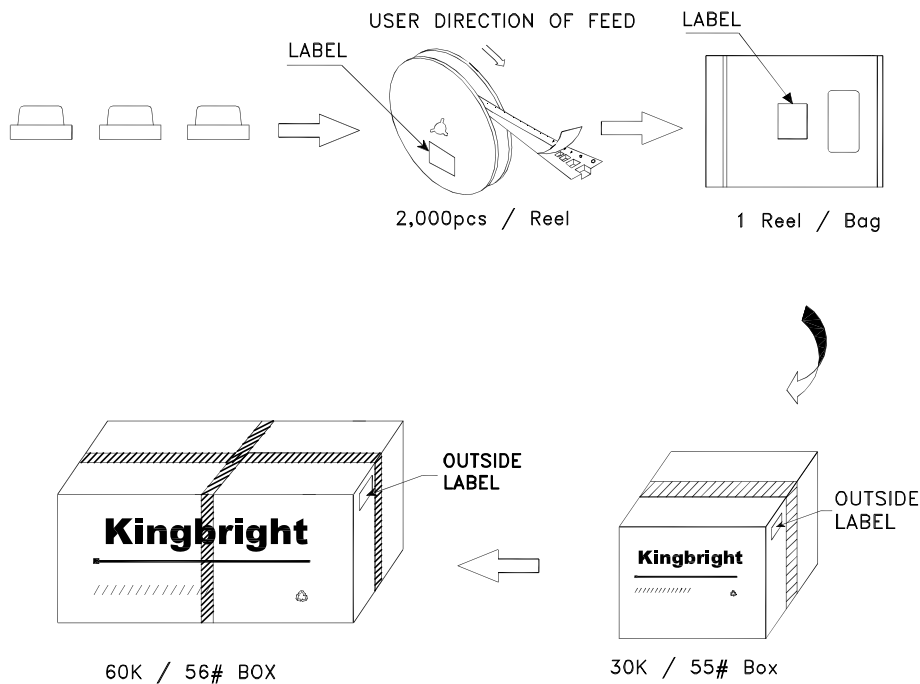


Tape Dimensions (Units : mm)



PACKING & LABEL SPECIFICATIONS

APT1608LSECK/J4-PRV



Kingbright	
P/NO: APT1608xxx	
QTY: 2,000 pcs	Q.C. Q C XX-XX-XXXX PASSED
S/N: XXXX	
CODE: XXX	
LOT NO:	
	
RoHS Compliant	

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