

PRELIMINARY SPEC

Part Number: APA2107LSECK/J4-PRV

Super Bright Orange

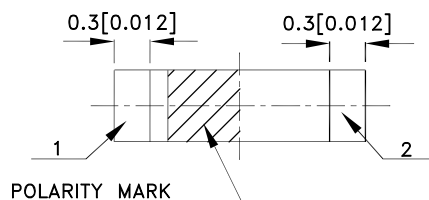
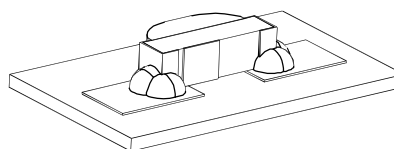
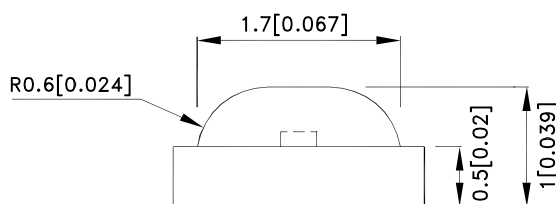
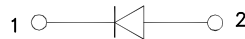
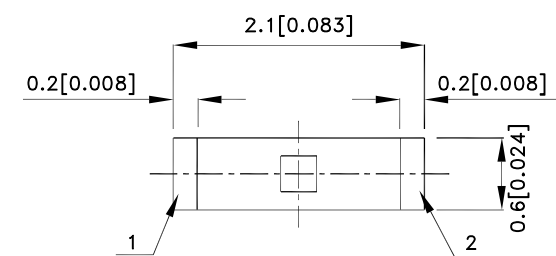
Features

- 2.1mmX0.6mm right angle SMT LED, 1.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- 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
APA2107LSECK/J4-PRV	Super Bright Orange (AlGaInP)	Water Clear	80	150	120°
			*20	*40	

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.

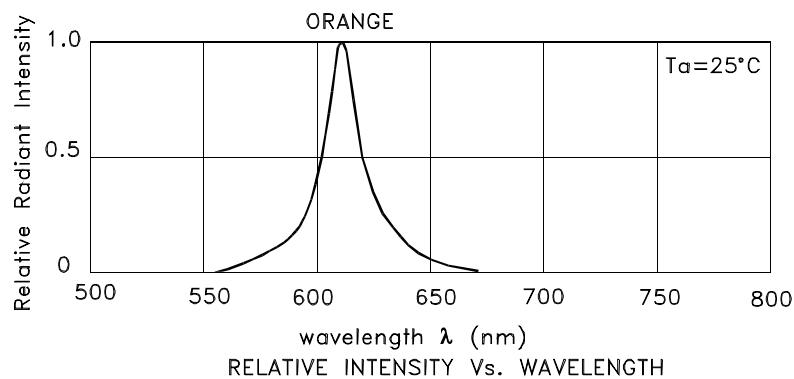
4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

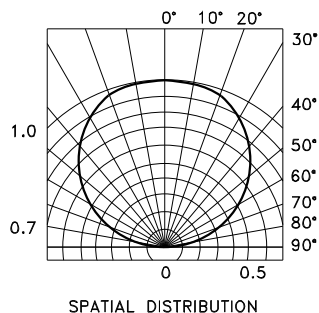
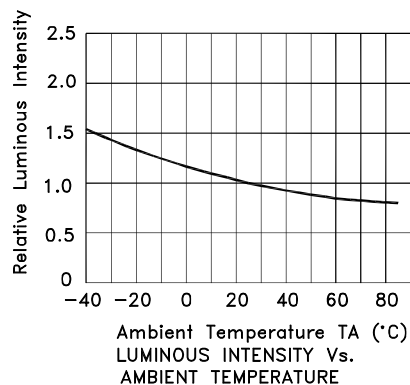
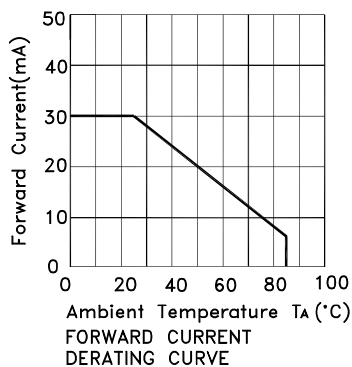
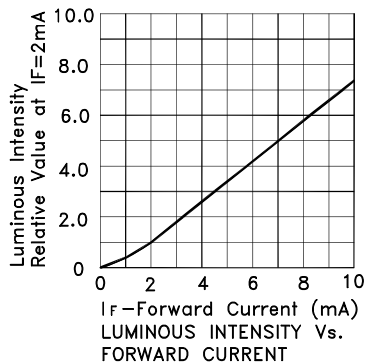
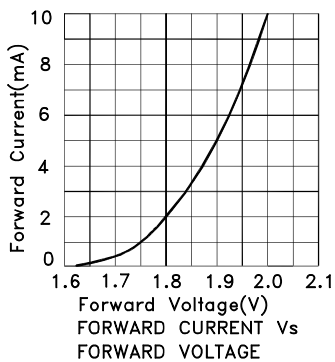
Parameter	Super Bright Orange	Units
Power dissipation	63	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating Temperature	-40°C To +85°C	
Storage Temperature	-40°C To +85°C	

Note:

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

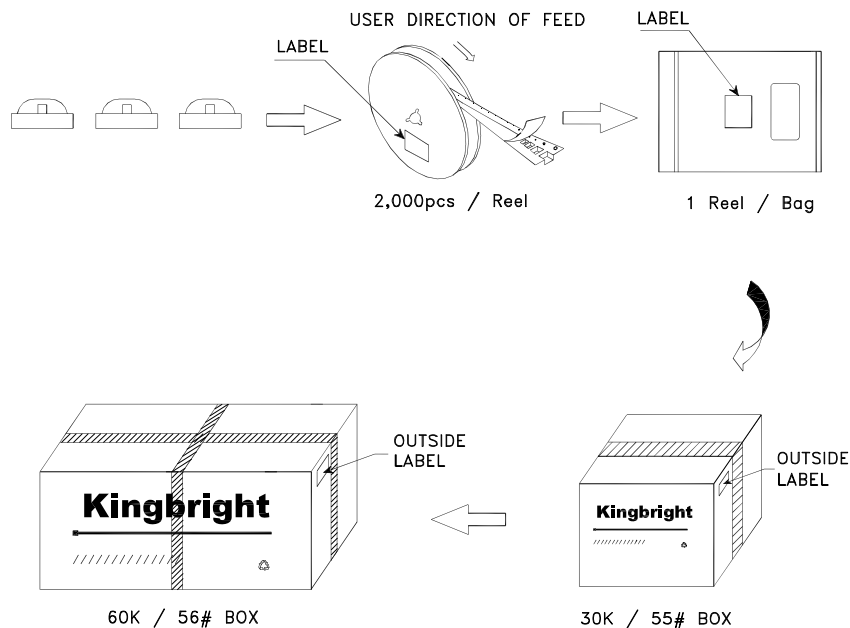


Super Bright Orange APA2107LSECK/J4-PRV



PACKING & LABEL SPECIFICATIONS

APA2107LSECK/J4-PRV



Kingbright	
P/N0: APA2107xxx	
QTY: 2,000 pcs	Q.C.
S/N: XXXX	Q C XX XX XXXX PASSED
CODE: XXX	
LOT NO:	
RoHS Compliant	

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