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Kingbright APDA3020LSECK/J4-PF

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



3.0x2.0mm RIGHT ANGLE SMD LED

Part Number: APDA3020LSECK/J4-PF

Super Bright Orange

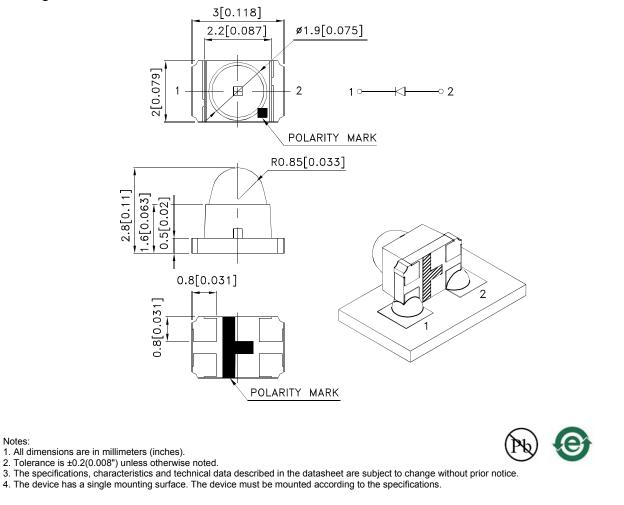
Features

- 3.0mmx2.0mm SMT LED,2.8mm thickness.
- Low power consumption.
- Ideal for back light 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



SPEC NO: DSAN8382



Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 2mA		Viewing Angle [1]
			Min. Typ.		201/2
APDA3020LSECK/J4-PF	Super Bright Orange (AlGaInP)	Water Clear	1000	1800	10°
			*550	*1000	

Notes:

1. 01/2 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 the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Orange		611		nm	l⊧=2mA
λD [1]	Dominant Wavelength	Super Bright Orange		605		nm	I⊧=2mA
Δλ1/2	Spectral Line Half-width	Super Bright Orange		17		nm	I⊧=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	I⊧=2mA
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.

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

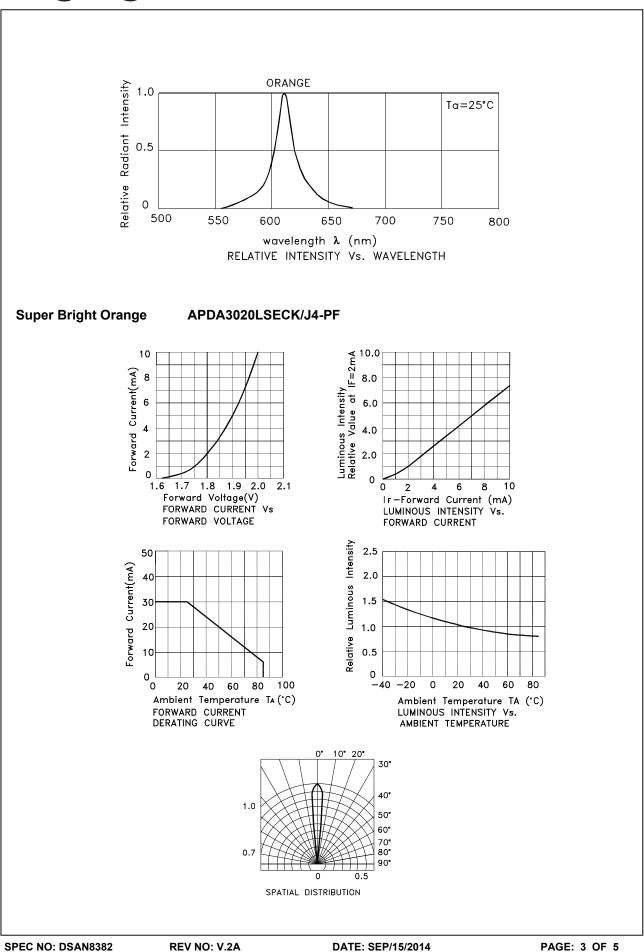
Absolute Maximum Ratings at TA=25°C

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.

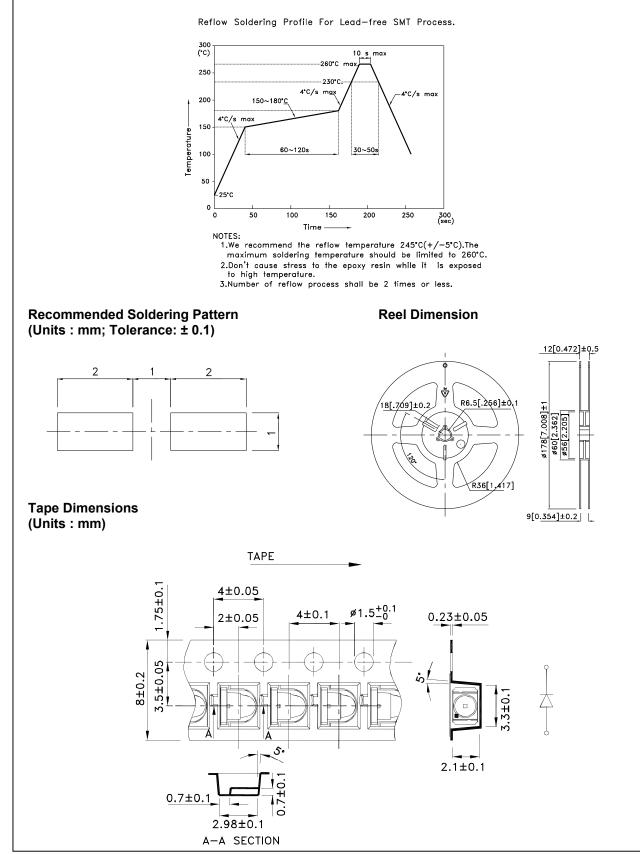




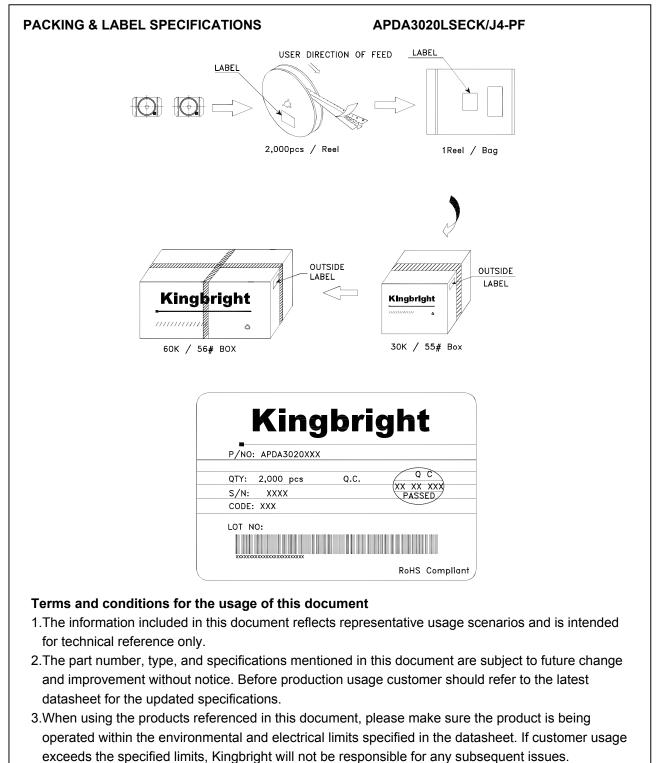


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.







4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.

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