3.0mmx1.0mm RIGHT ANGLE SMD CHIP LED LAMP

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 3.0mmx2.5mmx1.0mm right angle SMD LED, 1.0mm thickness.
- Low power consumption.
- Ideal for back light and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

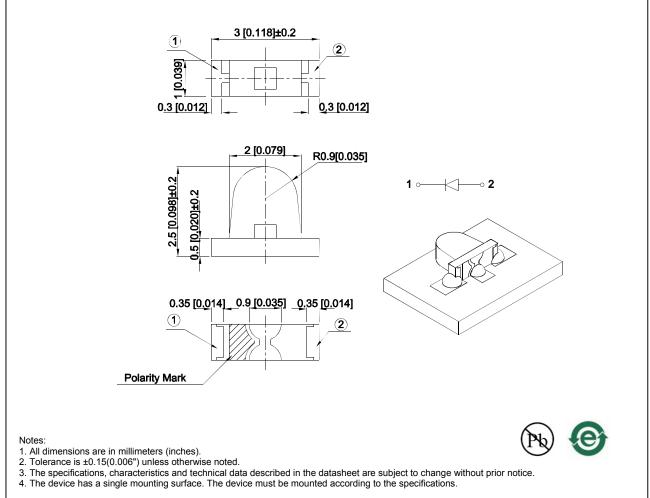
Descriptions

Part Number: APPA3010SECK

Super Bright Orange

- The Super Bright Orange device is made with AlGaInP (on GaAs substrate) light emitting diode chip.
- Electrostatic discharge and power surge could damage the LEDs.
- It is recommended to use a wrist band or antielectrostatic glove when handling the LEDs.
- All devices, equipments and machineries must be electrically grounded.

Package Dimensions



SPEC NO: DSAP0955 APPROVED: Wynec REV NO: V.1A CHECKED: Allen Liu DATE: MAR/02/2017 DRAWN: W.Q.Zhong PAGE: 1 OF 5 ERP: 1203007004

Selection Guide Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. **Emitting Color (Material)** Lens Type Min. 201/2 Тур. 400 650 APPA3010SECK Super Bright Orange (AlGaInP) Water Clear 30° *200 *380

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 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	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Orange	601		nm	I⊧=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	I⊧=20mA
IR	Reverse Current	Super Bright Orange		10	uA	VR=5V

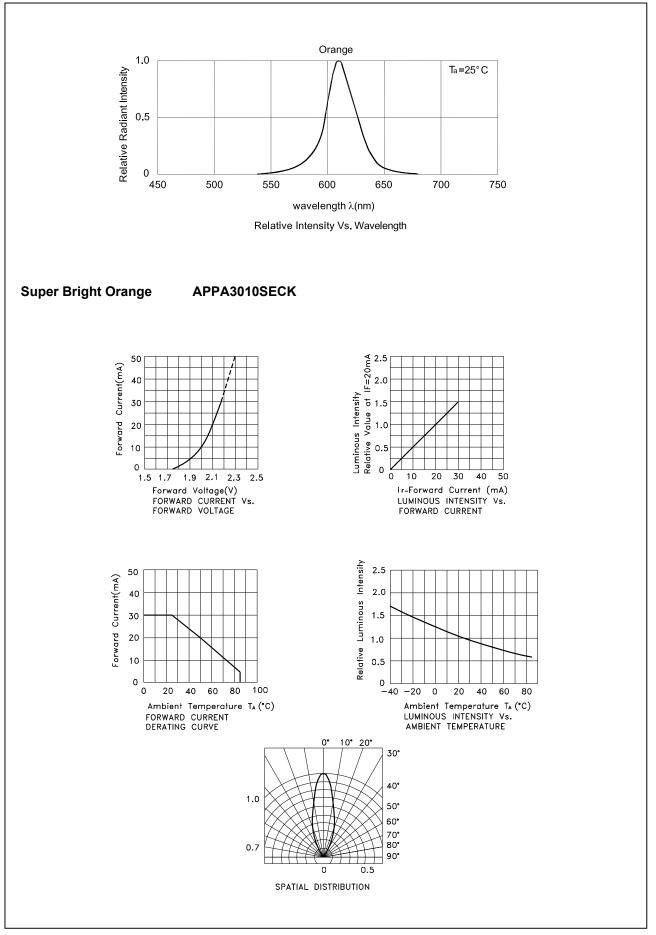
Notes: 1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to CIE127-2007 standards.

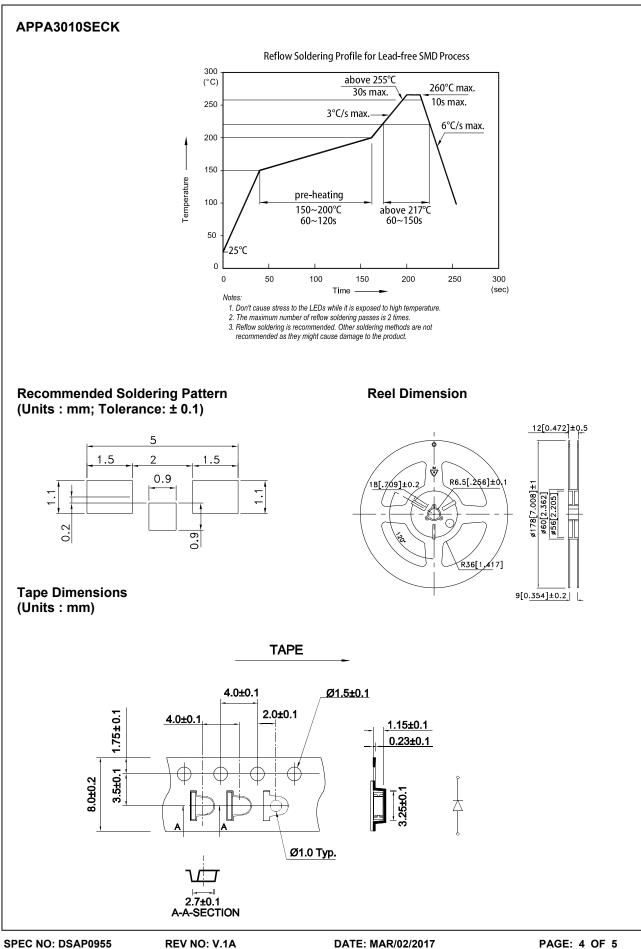
4. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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			
Storage Temperature	-40°C To +85°C			

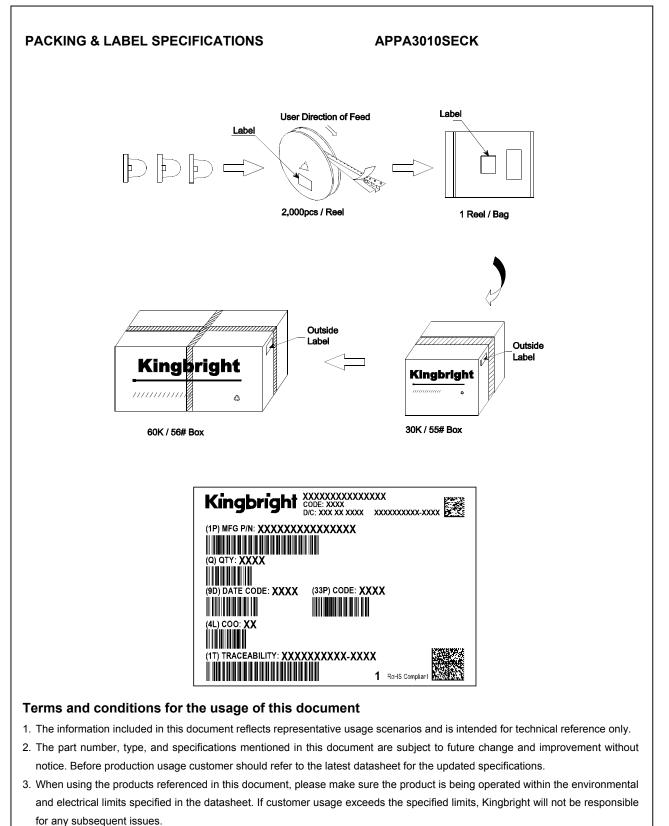
Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. Relative humidity levels maintained between 40% and 60% in production area are recommended to avoid the build-up of static electricity – Ref JEDEC/JESD625-A and JEDEC/J-STD-033.





CHECKED: Allen Liu

DRAWN: W.Q.Zhong



- 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.
- 5. The contents and information of this document may not be reproduced or re-transmitted without permission by Kingbright.
- 6. All design applications should refer to Kingbright application notes available at http://www.KingbrightUSA.com/ApplicationNotes

DATE: MAR/02/2017 DRAWN: W.Q.Zhong