2.1x0.6mm RIGHT ANGLE SURFACE LED LAMP

Part Number: APA2107QWF/D White



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

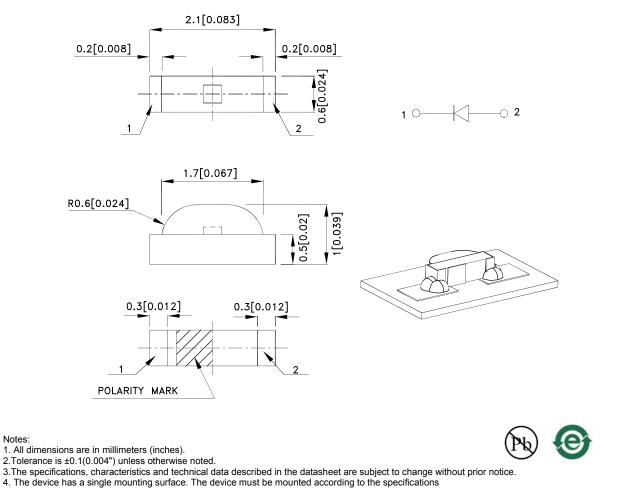
Features

- 2.1x1.0x0.6mm right angle SMD LED, 0.6mm 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.
- RoHS compliant.

Descriptions

- The source color devices are made with InGaN Light Emitting Diode.
- 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: DSAO3972 APPROVED: Wynec REV NO: V.1B CHECKED: Allen Liu DATE: JUL/02/2015 DRAWN: L.Q.Xie PAGE: 1 OF 6 ERP: 1203015093

Selection Guide

Part No.	Emitting Color (Material)	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
APA2107QWF/D	White (InGaN)	Yellow Fluorescent	120	180	120°				

Notes:

θ1/2 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	Symbol Parameter		Тур.	Max.	Units	Test Conditions
VF [1]	Forward Voltage	White	3.3	4.0	V	l⊧=20mA
IR	Reverse Current	White		50	uA	Vr = 5V
X [2]	Chromaticity Coordinates White		0.31			
Y [2]	Childmaticity Coordinates	Winte	0.31			
С	Capacitance	White	100		pF	VF=0V;f=1MHz

Notes:

1. Forward Voltage: +/-0.1V.

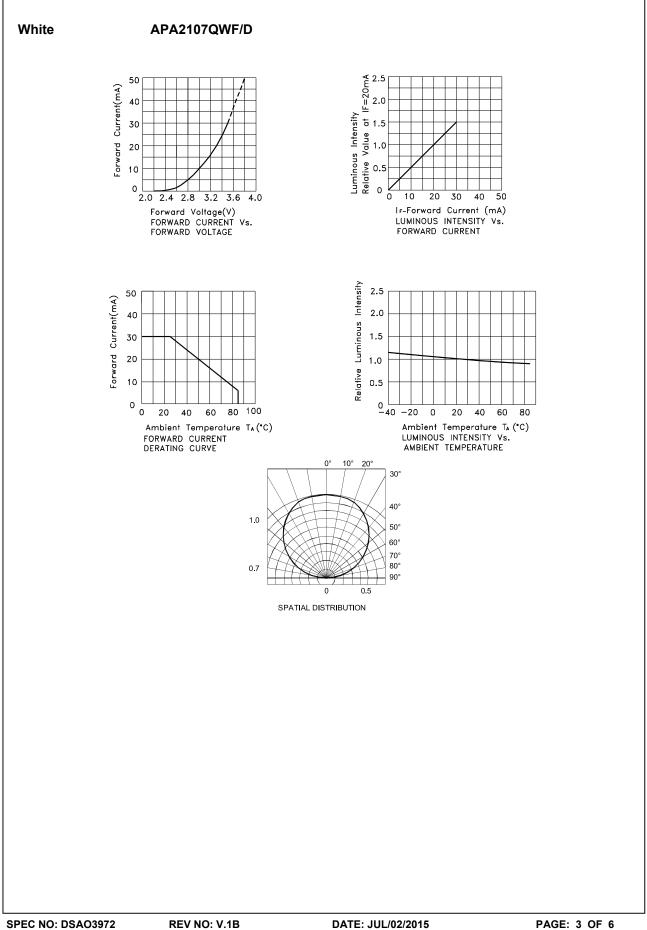
2. Measurement tolerance of the chromaticity coordinates is ±0.01.

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

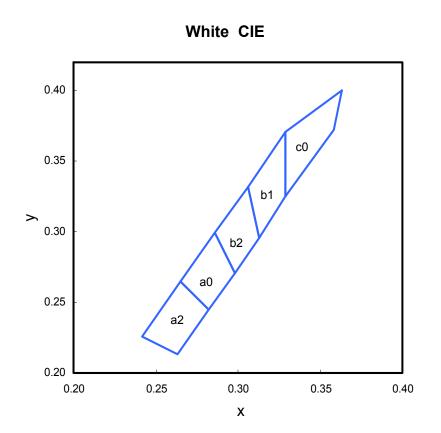
Absolute Maximum Ratings at TA=25°C

Parameter	Values	Units			
Power dissipation	120	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Electrostatic Discharge Threshold (HBM)	250	V			
Operating Temperature	-40°C To +85°C	-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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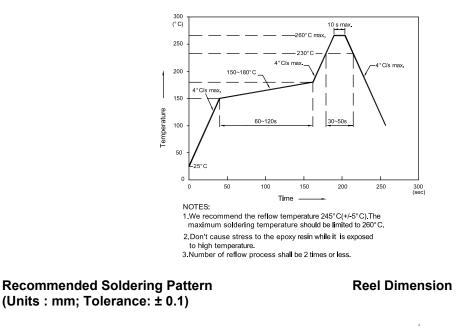
	х	у		х	у		х	У
	0.263	0.213	a0	0.282	0.245	b2	0.298	0.271
a2	0.282	0.245		0.298	0.271		0.313	0.296
az	0.265	0.265		0.286	0.299		0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
b1	0.313	0.296	c0	0.329	0.325			
	0.329	0.325		0.358	0.372			
	0.329	0.371		0.363	0.400			
	0.306	0.332		0.329	0.371			

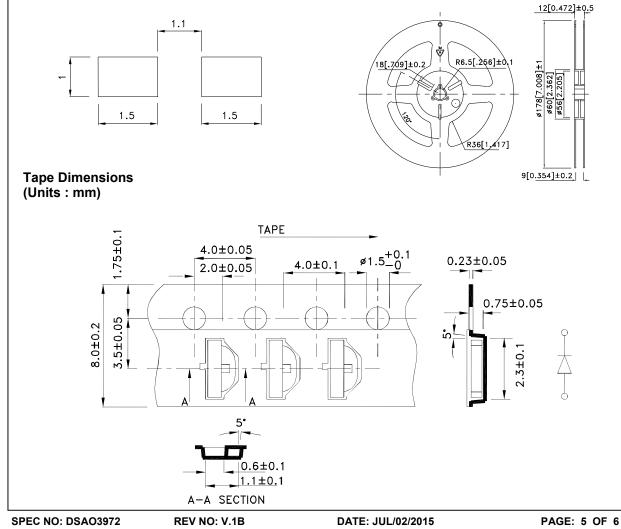
Notes: Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.01 .

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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.

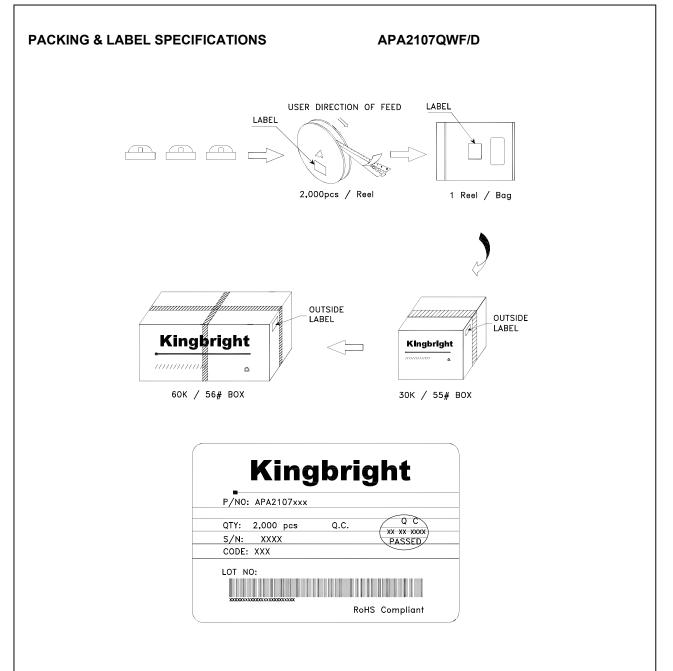






CHECKED: Allen Liu

DATE: JUL/02/2015 DRAWN: L.Q.Xie



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