3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTR3216QWF/G White



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

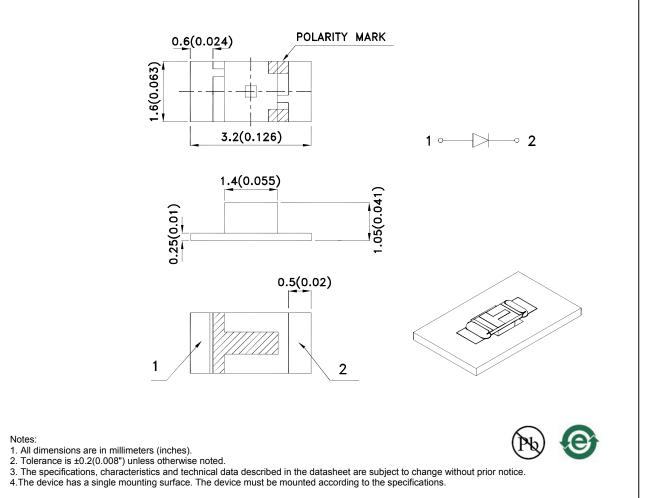
Features

- 3.2mmx1.6mm SMT LED,1.05mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- 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



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Selection Guide

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		Mi		Тур.	201/2
APTR3216QWF/G	White (InGaN)	Yellow Fluorescent	400	550	120°

Notes:

1. θ 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%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

Symbol Parameter		Device Typ.		Max.	Units	Test Conditions	
VF [1]	Forward Voltage	White	3.3	4.0	V	IF=20mA	
IR	Reverse Current	White		50	uA	VR = 5V	
x [2]	Chromaticity Coordinates	White	0.31				
y [2]			0.31				
С	Capacitance	White	100		pF	V⊧=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

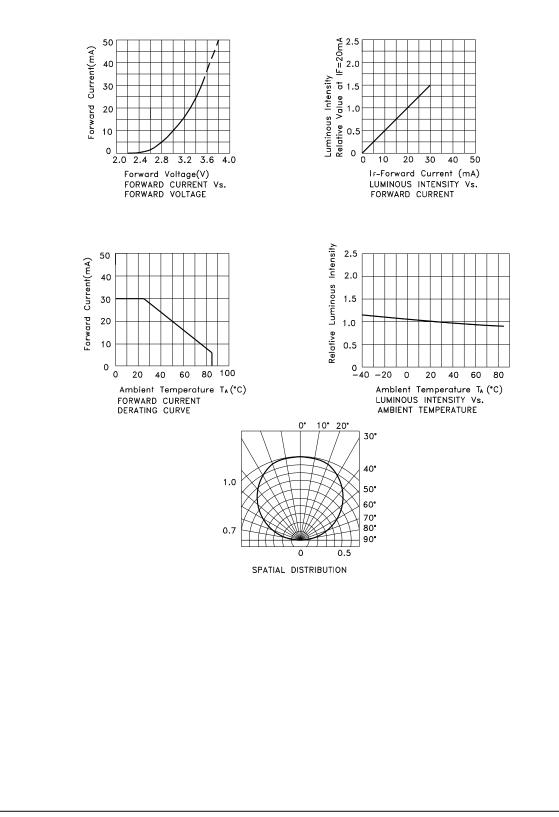
Parameter	White	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	150	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

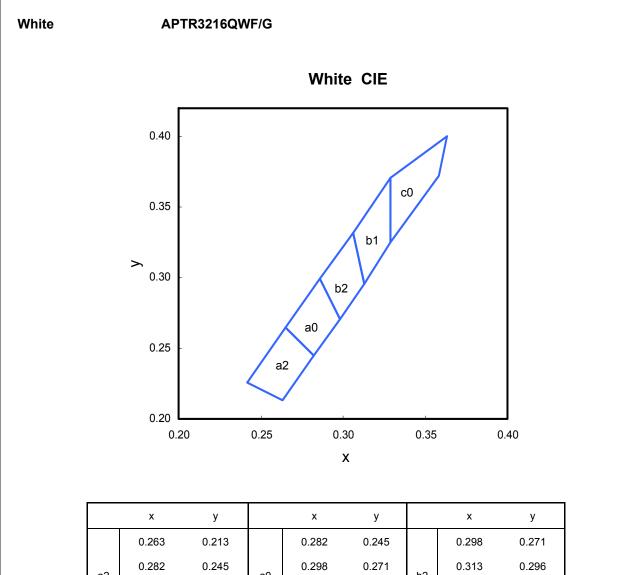
Note:

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

White

APTR3216QWF/G





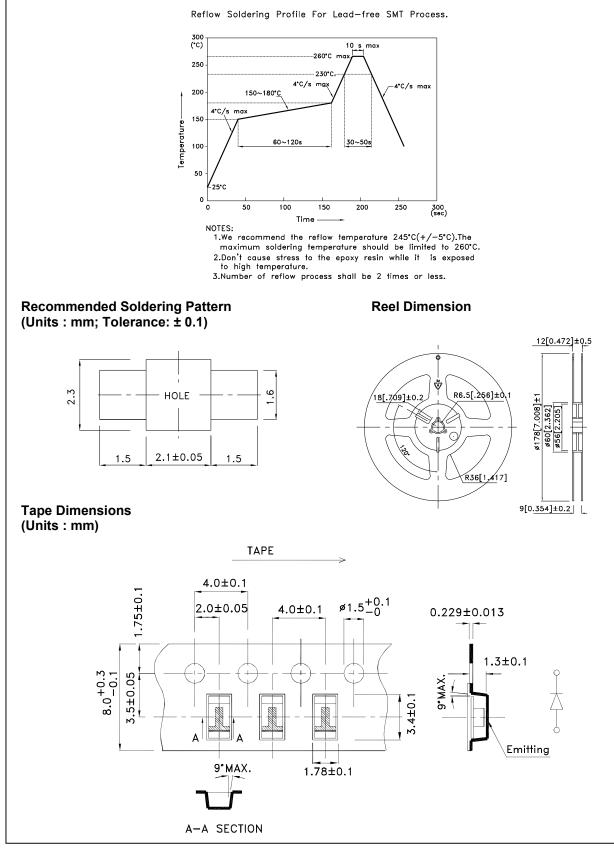
		0.200	0.210		0.202	0.210		0.200	0.271
	a2	0.282	0.245	a0	0.298	0.271	b2	0.313	0.296
42	42	0.265	0.265		0.286	0.299		0.306	0.332
		0.242	0.226		0.265	0.265		0.286	0.299
		0.313	0.296	c0	0.329	0.325			
	b1	0.329	0.325		0.358	0.372			
51	51	0.329	0.371		0.363	0.400			
		0.306	0.332		0.329	0.371			

Notes:

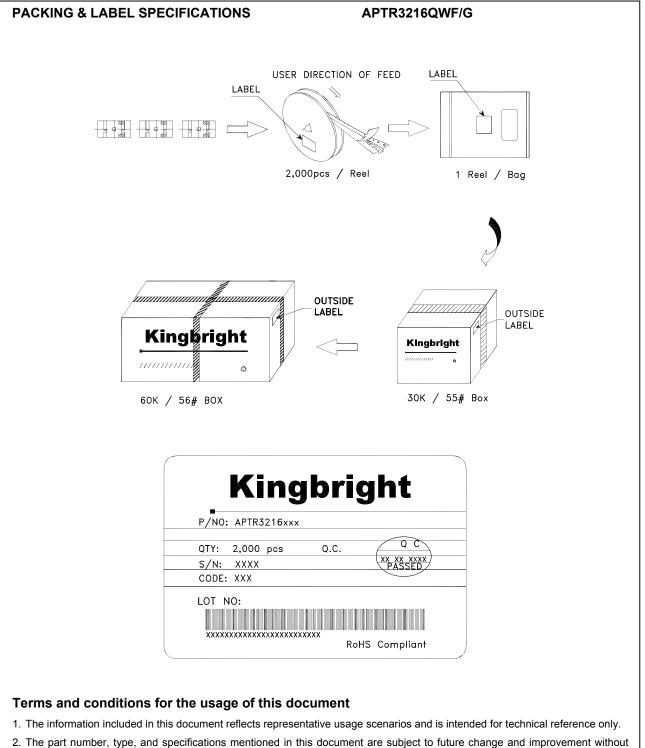
Shipment may contain more than one chromaticity regions. Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.01 .

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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.



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- 2. The part number, type, and specifications mentioned in this document are subject to future change and improvement with notice. Before production usage customer should refer to the latest datasheet for the updated specifications.
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