ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

1.6x0.2mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: APGA1602QWF/KA-5MAV

White

Features

- 1.6mmx0.9mm right angle SMT LED,0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Moisture sensitivity level : level 3.
- Package :2000pcs / reel.
- Tinned pads for improved solderability.
- Low current IF=5mA operating.
- RoHS compliant.

Description

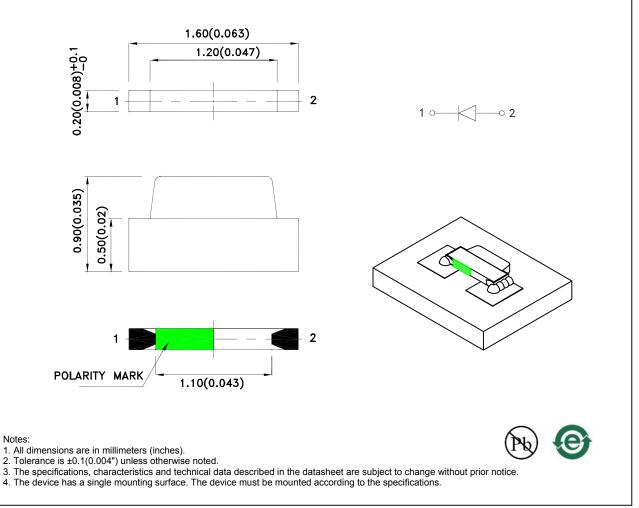
The source color devices are made with InGaN on Sapphire-substrate Light Emitting Diode.

Static electricity and surge damage the LEDS.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



SPEC NO: DSAN2012 APPROVED: WYNEC REV NO: V.1B CHECKED: Allen Liu DATE: SEP/04/2013 DRAWN: Y.Liu PAGE: 1 OF 6 ERP: 1203013701

Part No.	Dice	Lens Type	lv (mcd) [2] @ 5mA		Viewing Angle [1]
i art No.	Dice	Lens Type	Min.	Тур.	201/2
APGA1602QWF/KA-5MAV	White (InGaN)	Yellow Fluorescent	20	60	135 [°] (H) 180 [°] (V)

Notes: 1. θ1/2 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	Тур.	Max.	Units	Test Conditions
VF [1]	Forward Voltage	White	2.8	3.2	V	IF=5mA
IR	Reverse Current	White		50	uA	VR = 5V
x [2]	Charamaticity Coordinator	\\/h:+=	0.31			
y [2]	Chromaticity Coordinates	White	0.31			

Notes:

1. Forward Voltage: +/-0.1V.

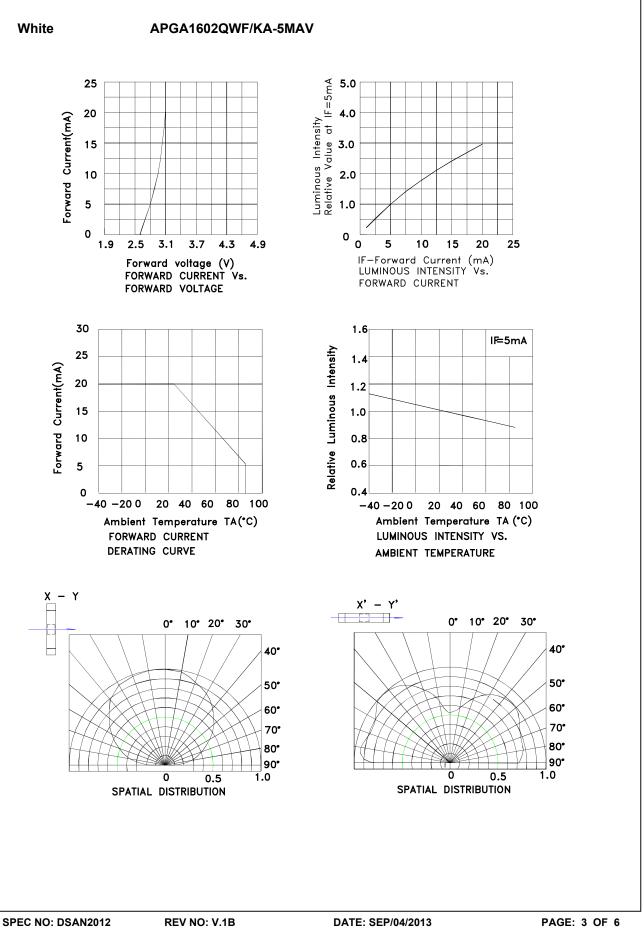
2: Measurement Tolerance Of The Chromaticity Coordinates Is ±0.01.

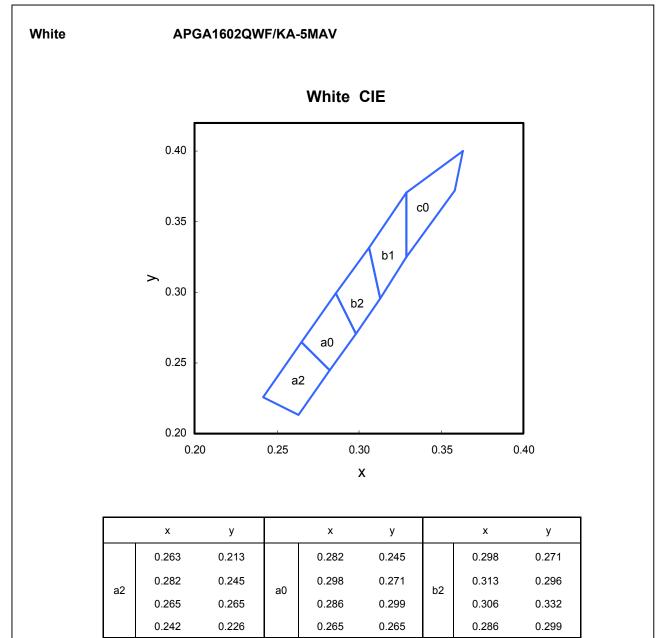
Absolute Maximum Ratings at TA=25°C

Parameter	White	Units		
Power dissipation	70	mW		
DC Forward Current	20	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +100°C			

Note:

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





0.329

0.358

0.363

0.329

c0

0.325

0.372

0.400

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 .

0.313

0.329

0.329

0.306

b1

0.296

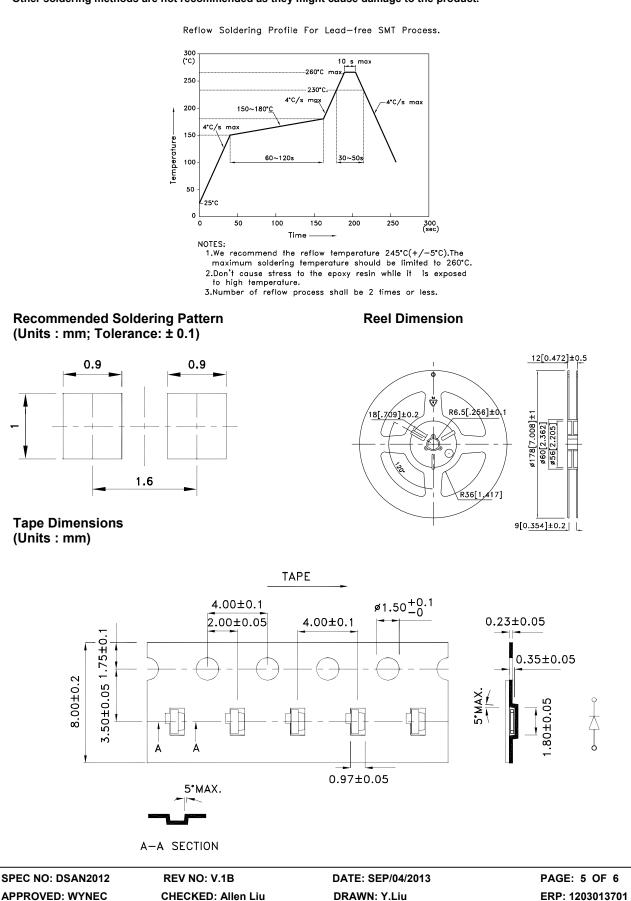
0.325

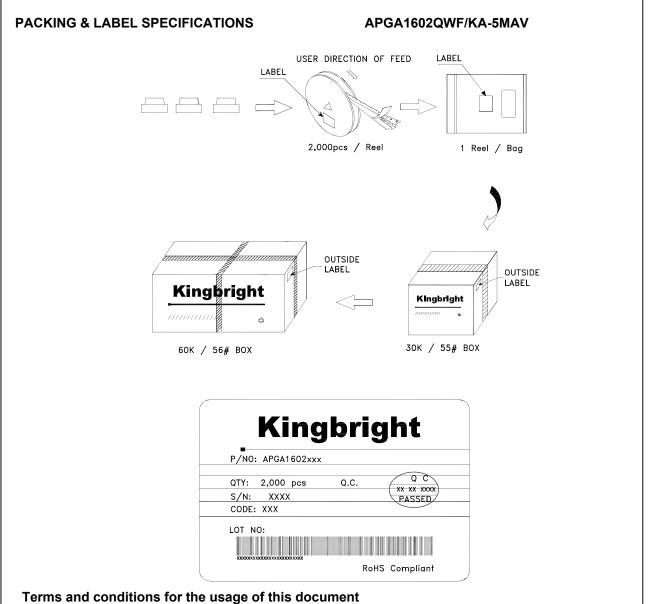
0.371

0.332

APGA1602QWF/KA-5MAV

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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