

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 1.0mmX0.5mm SMT LED, 0.2mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 4000pcs / reel.
- Moisture sensitivity level : level 3.
- Low current IF=5mA operating.
- RoHS compliant.

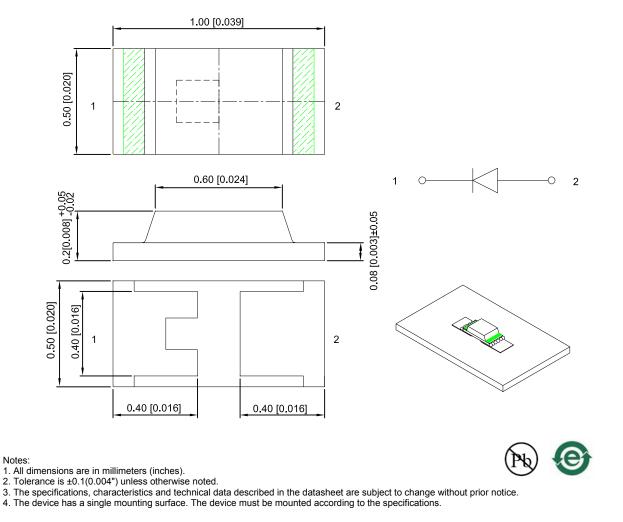
1.0X0.5mm SMD CHIP LED LAMP (0.2mm Height)

Part Number: APG1005RWF-T-5MAV White

Descriptions

- The source color devices are made with InGaN on SiC substrate 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: DSAN2658 APPROVED: WYNEC REV NO: V.5B CHECKED: Allen Liu DATE: MAY/06/2014 DRAWN: L.Q.Xie

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 5mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
APG1005RWF-T-5MAV	White (InGaN)	Yellow Fluorescent	40	85	120°			

Notes:

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	Тур.	Max.	Units	Test Conditions	
VF [1]	Forward Voltage	White	2.9	3.1	V	I⊧=5mA	
lr	Reverse Current	White		50	uA	VR = 5V	
X [2]	Chromoticity Coordinates	White	0.31				
Y [2]	Chromaticity Coordinates	vvnite	0.31				

Notes:

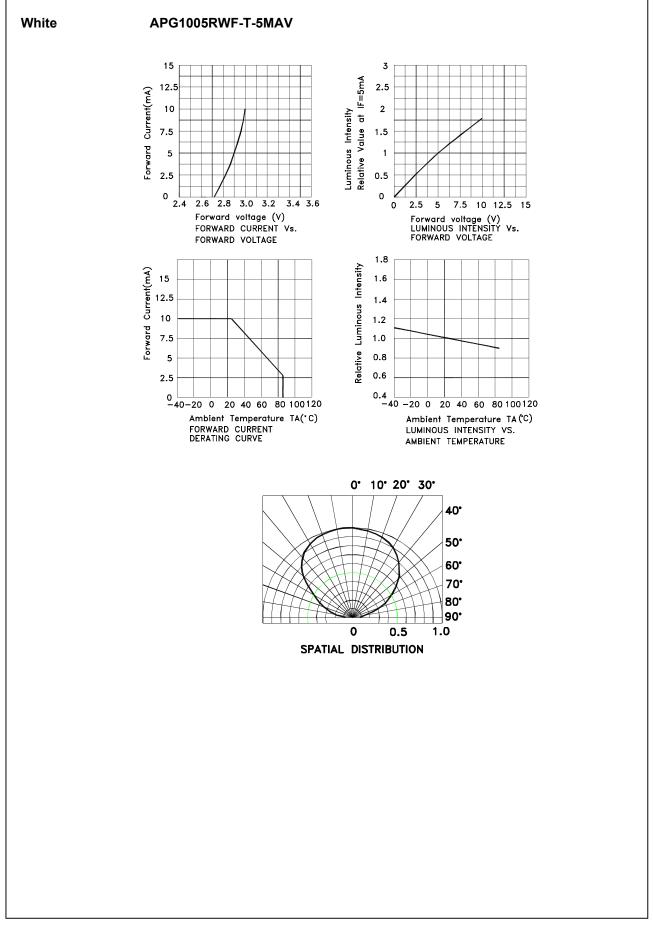
 Forward Voltage: +/-0.1V.
Measurement Tolerance Of The Chromaticity Coordinates Is ±0.01.
Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

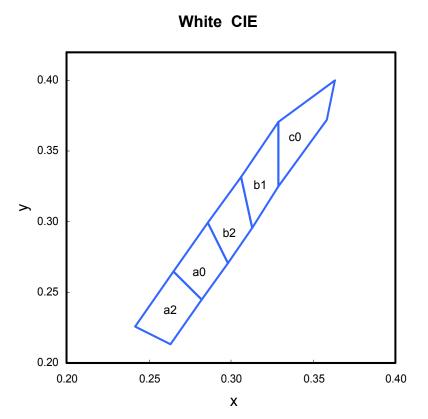
Parameter	White	Units		
Power dissipation	32	mW		
DC Forward Current	10	mA		
Peak Forward Current [1]	100	mA		
Reverse Voltage	5	V		
Electrostatic Discharge Threshold (HBM)	1000	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

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



APG1005RWF-T-5MAV



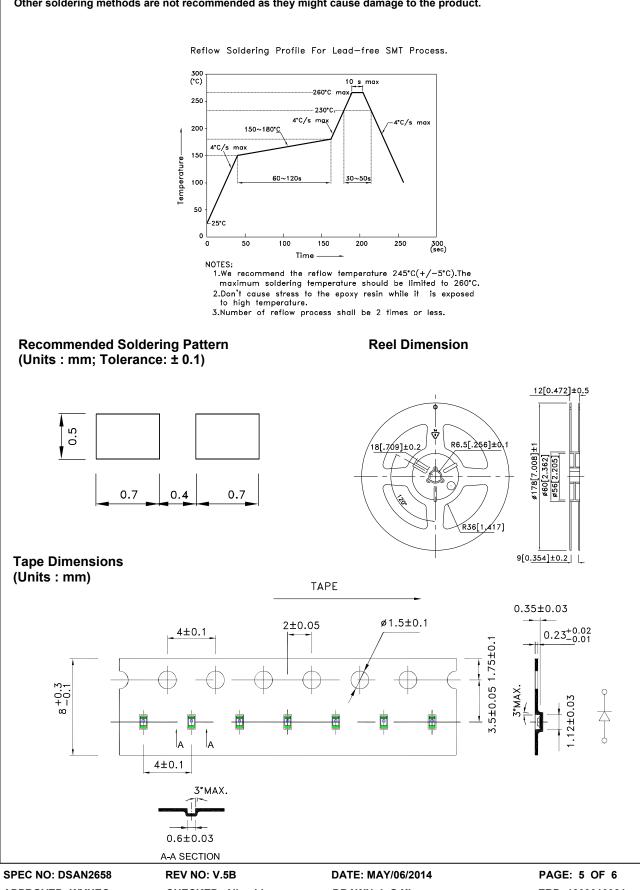
	x	У		х	у		х	У
a2	0.263	0.213	a0	0.282	0.245	b2	0.298	0.271
	0.282	0.245		0.298	0.271		0.313	0.296
	0.265	0.265		0.286	0.299		0.306	0.332
	0.242	0.226		0.265	0.265		0.286	0.299
b1	0.313	0.296	c0	0.329	0.325			
	0.329	0.325		0.358	0.372			
	0.329	0.371		0.363	0.400			
	0.306	0.332		0.329	0.371			

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 .

APG1005RWF-T-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.

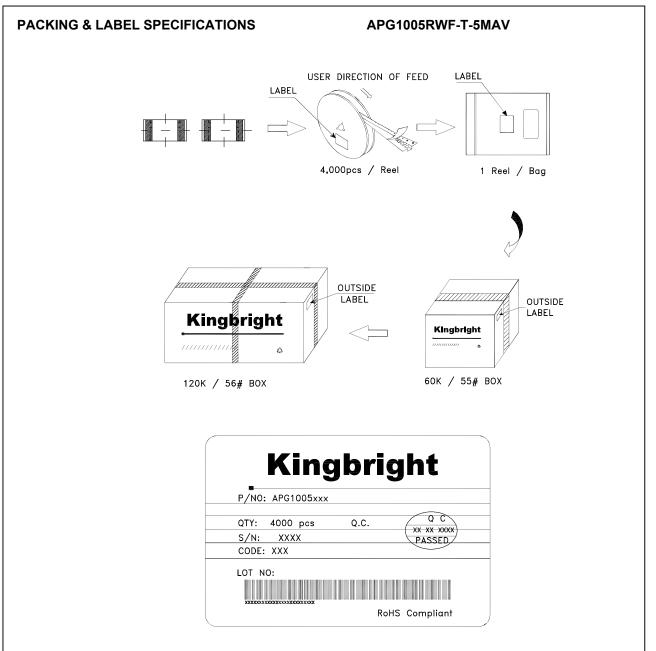


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