

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)

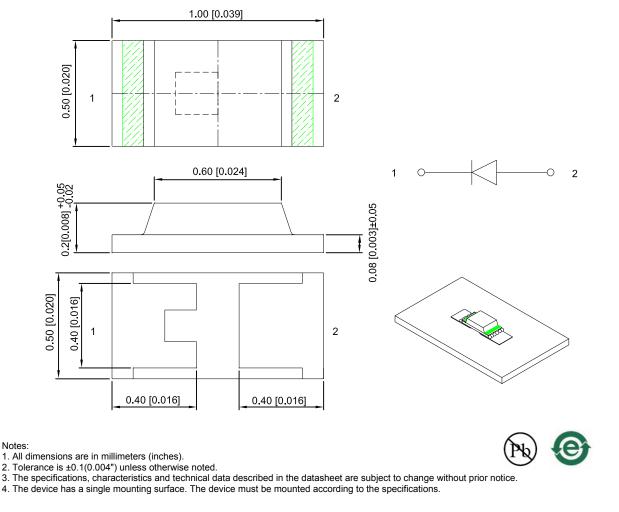
Part Number: APG1005PBC-T-5MAV

Blue

Descriptions

- The Blue 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: DSAN2911 APPROVED: WYNEC REV NO: V.5B CHECKED: Allen Liu DATE: MAY/06/2015 DRAWN: L.Q.Xie PAGE: 1 OF 5 ERP: 1203013982

Selection Guide

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Part No.	Dice	Lens Type	lv (mcd) [2] @ 5mA		Viewing Angle [1]		
			Min.	Тур.	201/2		
APG1005PBC-T-5MAV	Blue (InGaN)	Water Clear	20	28	145°		

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
λpeak	Peak Wavelength	Blue	461		nm	I⊧=5mA
λD [1]	Dominant Wavelength	Blue	467		nm	IF=5mA
Δλ1/2	Spectral Line Half-width	Blue	22		nm	I⊧=5mA
Vf [2]	Forward Voltage	Blue	2.9	3.1	V	IF=5mA
lr	Reverse Current	Blue		50	uA	VR=5V

Notes:

1. Wavelength: +/-1nm.

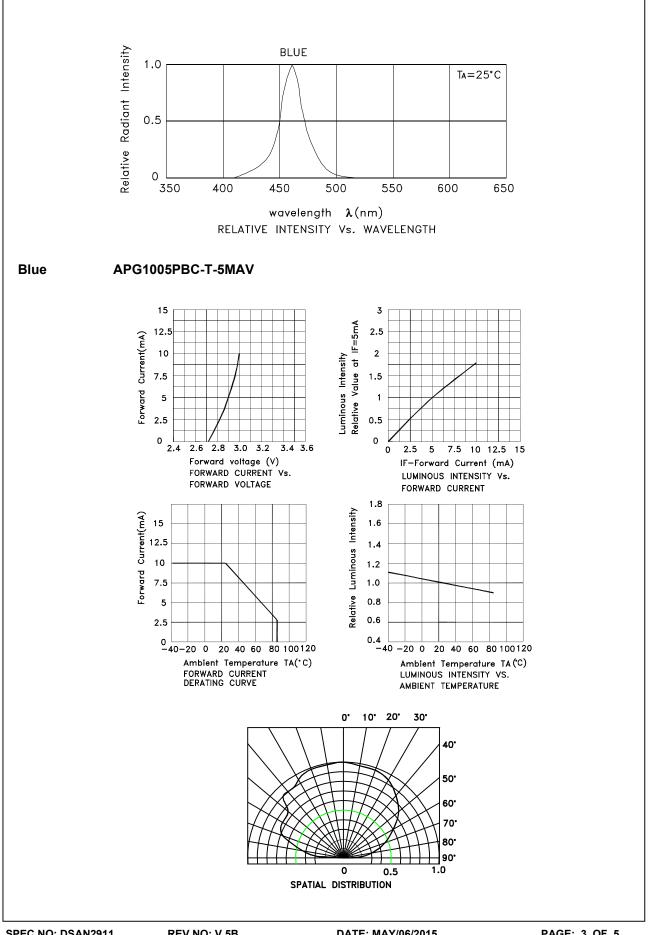
2. Forward Voltage: +/-0.1V.

Strate voluge: 7, 0, 12.
Wavelength value is traceable to the CIE127-2007 compliant national standards.
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

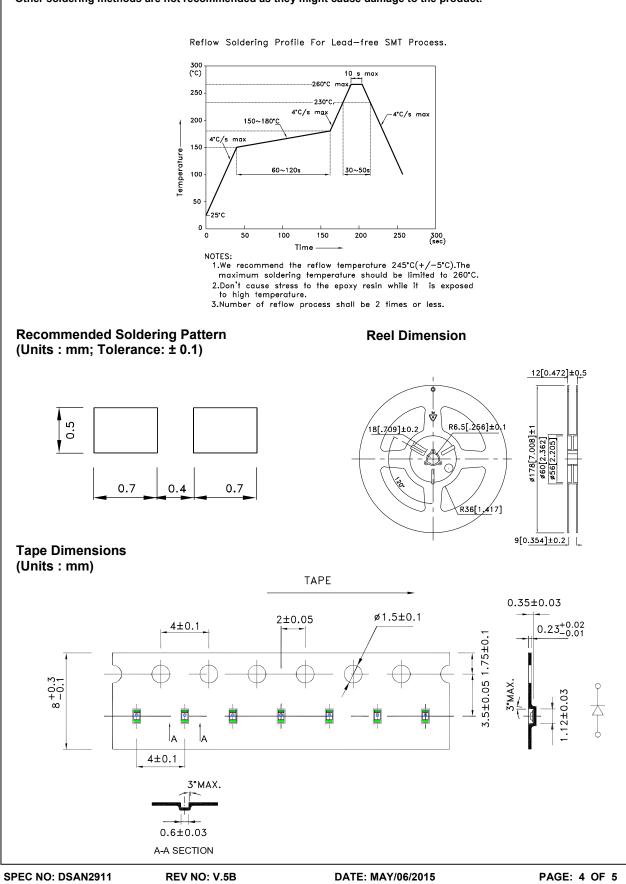
Parameter	Blue	Units	
Power dissipation	32	mW	
DC Forward Current	10	mA	
Peak Forward Current [1]	50	mA	
Reverse Voltage	5	V	
Electrostatic Discharge Threshold (HBM)	1000	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature -40°C To +85°C			

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



APG1005PBC-T-5MAV

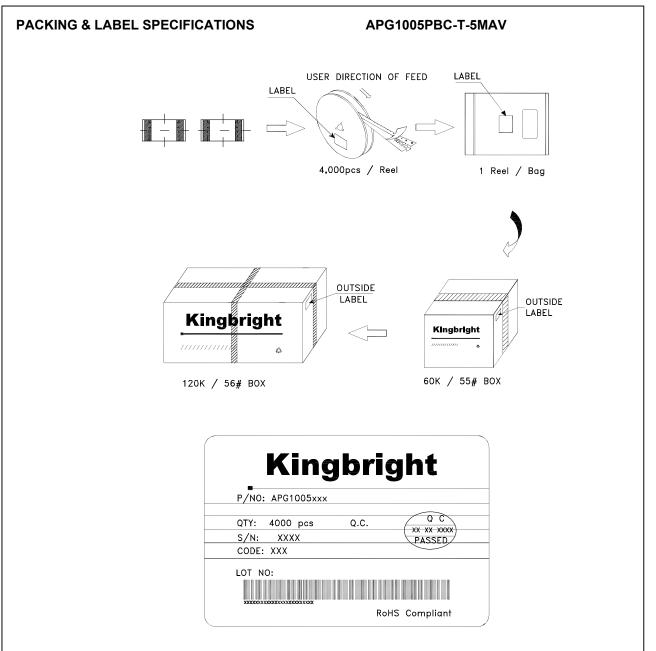
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



APPROVED: WYNEC

CHECKED: Allen Liu

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