Features

ATTENTION

OBSERVE PRECAUTIONS FOR HANDLING

ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

• 2.0mmx1.25mm SMT LED, 1.1mm thickness.

• Bi -color,Low power consumption.

• Ideal for backlight and indicator.

• Moisture sensitivity level : level 3.

• Package : 2000pcs / reel.

· Wide viewing angle.

· RoHS compliant.

2.0x1.25mm BI-COLOR SMD CHIP LED LAMP

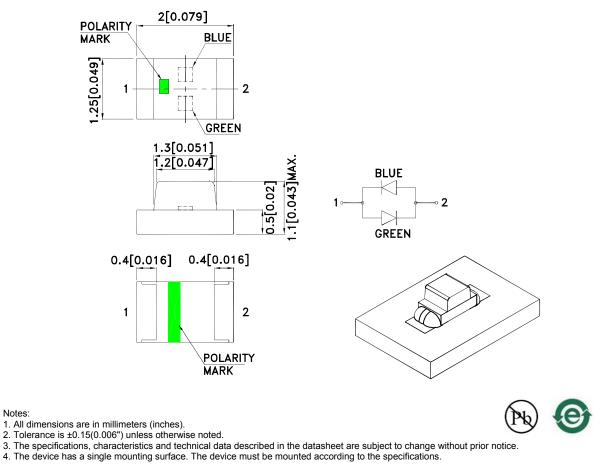
Part Number: APB2012QBDZGC

Blue Green

Descriptions

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



REV NO: V.3B CHECKED: Allen Liu DATE: AUG/20/2014 DRAWN: L.Q.Xie

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Selection Guide Viewing lv (mcd) [2] @ 20mA Angle [1] Part No. Dice Lens Type Min. 201/2 Тур. Blue (InGaN) 40 80 APB2012QBDZGC 150° Water Clear Green (InGaN) 200 300

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%.

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
λpeak	Peak Wavelength	Blue Green	460 515		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue Green	465 525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue Green	25 30		nm	I⊧=20mA
С	Capacitance	Blue Green	100 45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Blue Green	3.3 3.3	4 4.1	V	I⊧=20mA

Notes:

1.Wavelength: +/-1nm.

2.Forward Voltage: +/-0.1V.

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

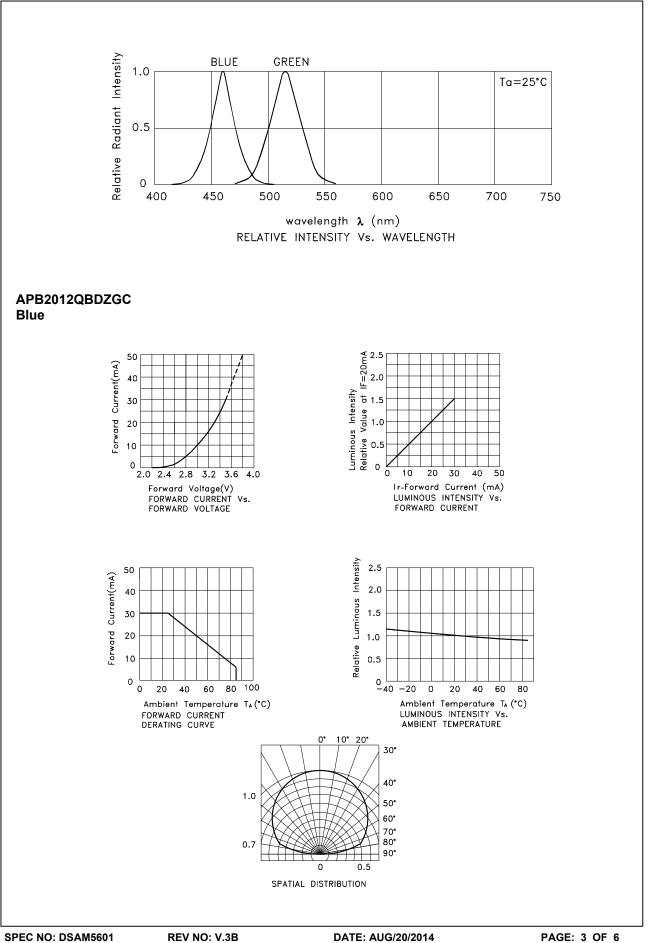
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

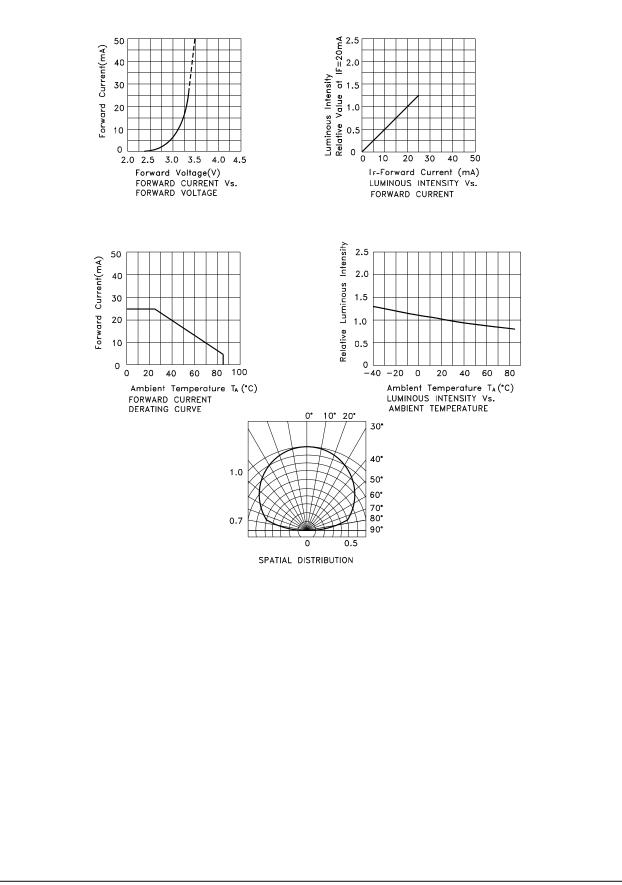
Parameter	Blue	Green	Units		
Power dissipation	120	102.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	150	150	mA		
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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

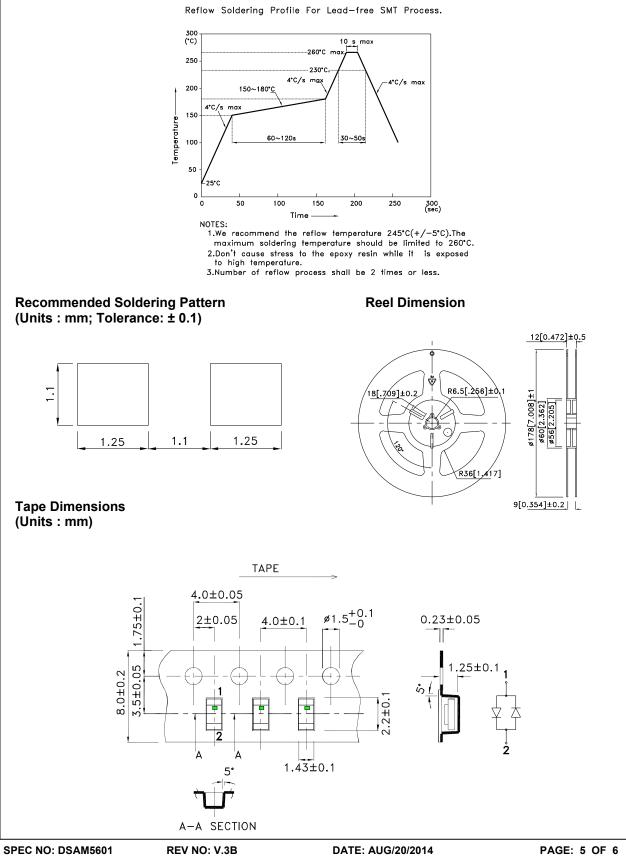


Green



APB2012QBDZGC

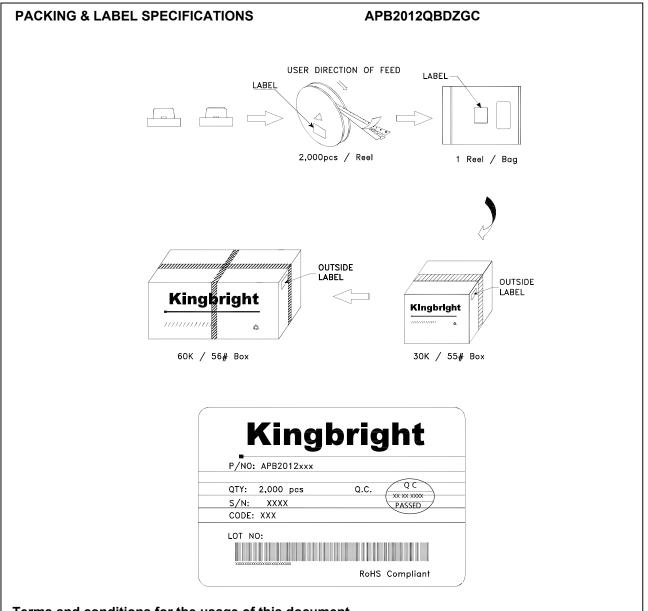
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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