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

Part Number: APB2012QBDZGC

Blue Green



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

Features

- 2.0mmx1.25mm SMT LED, 1.1mm thickness.
- Bi -color,Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

The Blue source color devices are made with InGaN Light Emitting Diode.

The Green source color devices are made with InGaN

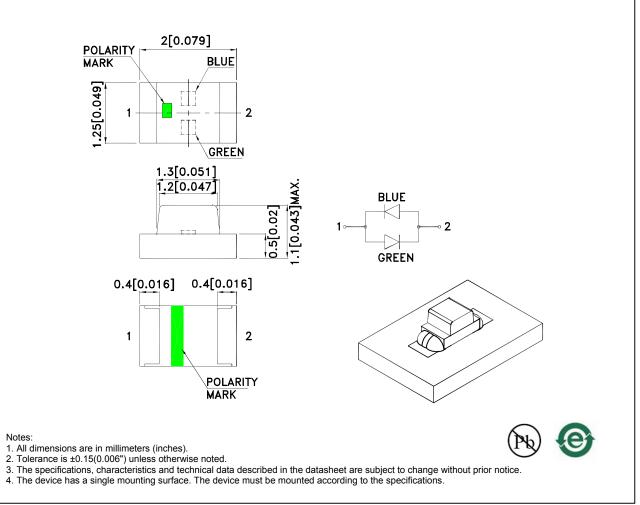
on Sapphire Light Emitting Diode.

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: DSAM5601 APPROVED: WYNEC REV NO: V.2B CHECKED: Allen Liu DATE: APR/01/2013 DRAWN: Q.M.Chen

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Selection Guide Part No. Dice Lens Type @ 20mA Ar						
i art itor		2010 1990	Min.	Тур.	201/2	
APB2012QBDZGC	Blue (InGaN)	Matan Ola an	40	80	- 150°	
	Green (InGaN)	Water Clear	200	300		

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

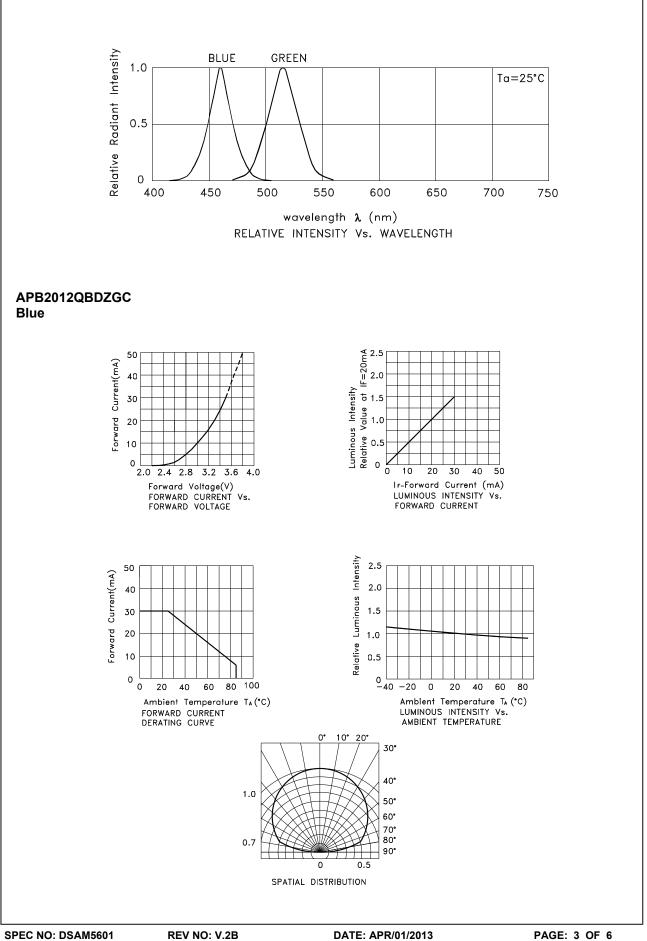
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Green	460 515		nm IF=20mA	
λD [1]	Dominant Wavelength	Blue Green	465 525		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue Green	25 30		nm	I⊧=20mA
С	Capacitance	Blue Green	100 45		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Blue 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.

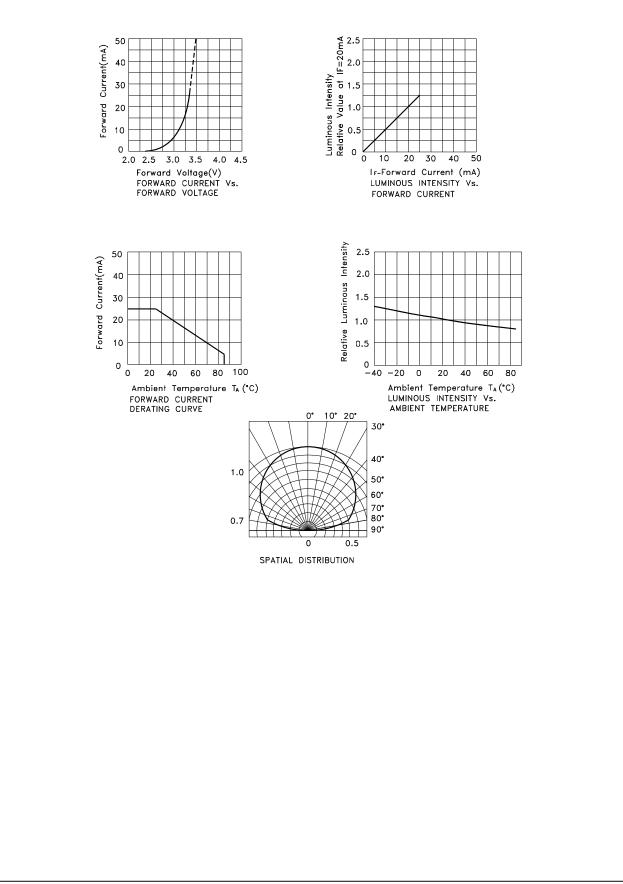
Absolute Maximum Ratings at TA=25°C

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.

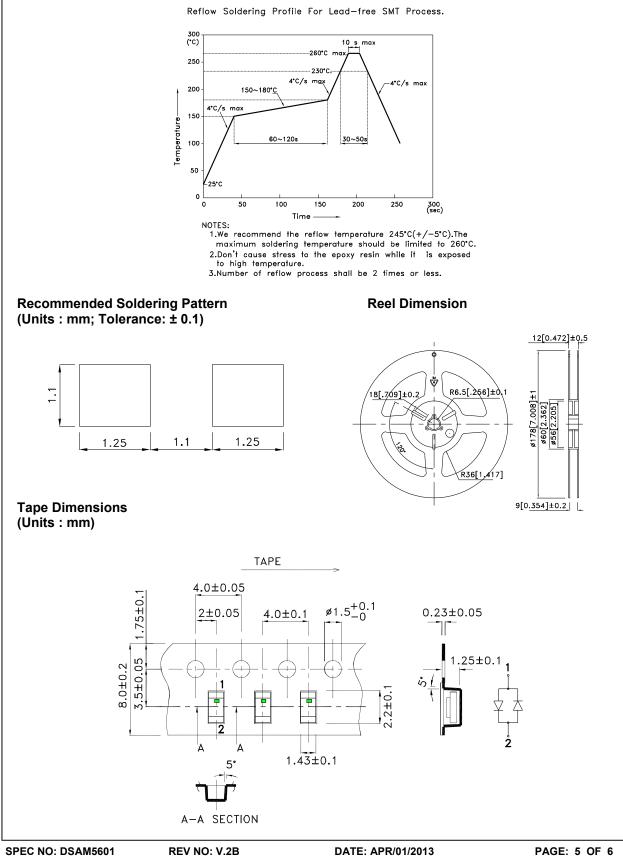


Green



APB2012QBDZGC

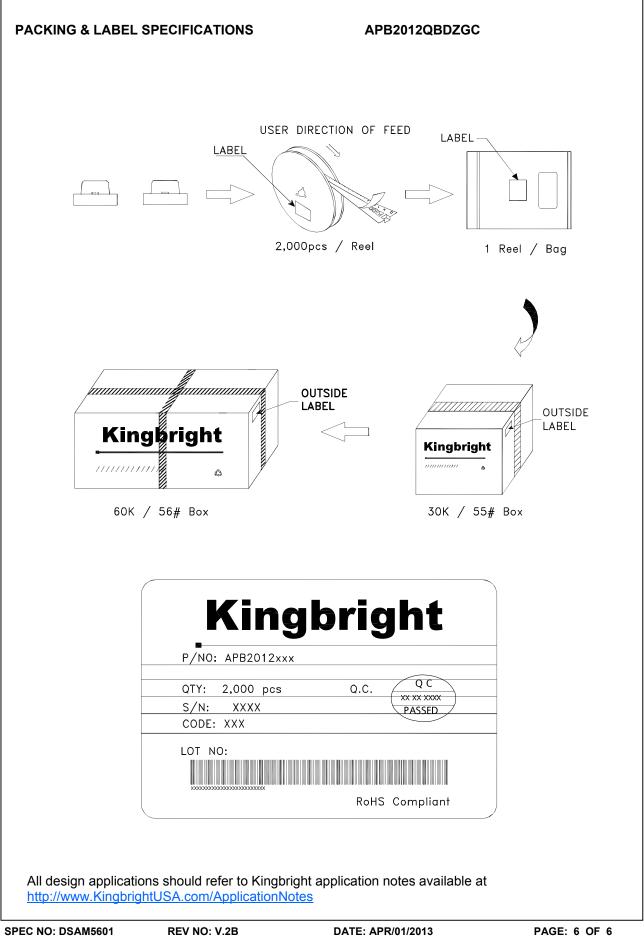
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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