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

Part Number: APB2012QBDCGKC

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.

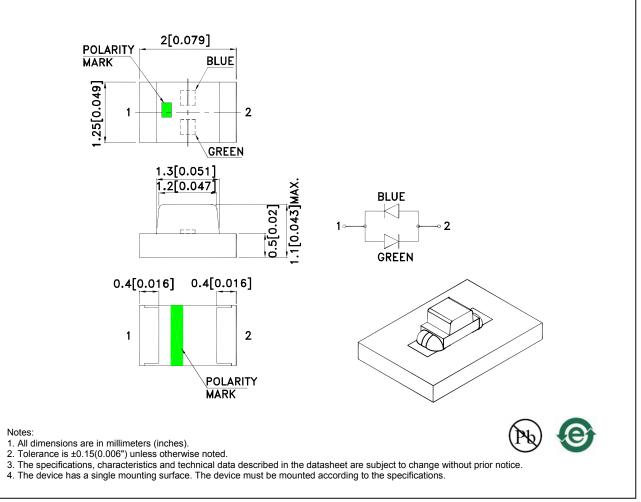
The Green source color devices are made with AlGaInP on GaAs substrate Light Emitting Diode.

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: DSAM3694 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	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
APB2012QBDCGKC	Blue (InGaN)	Water Clear	40	80	150°				
	Green (AlGaInP)	Water Ciedi	20	50					

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%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

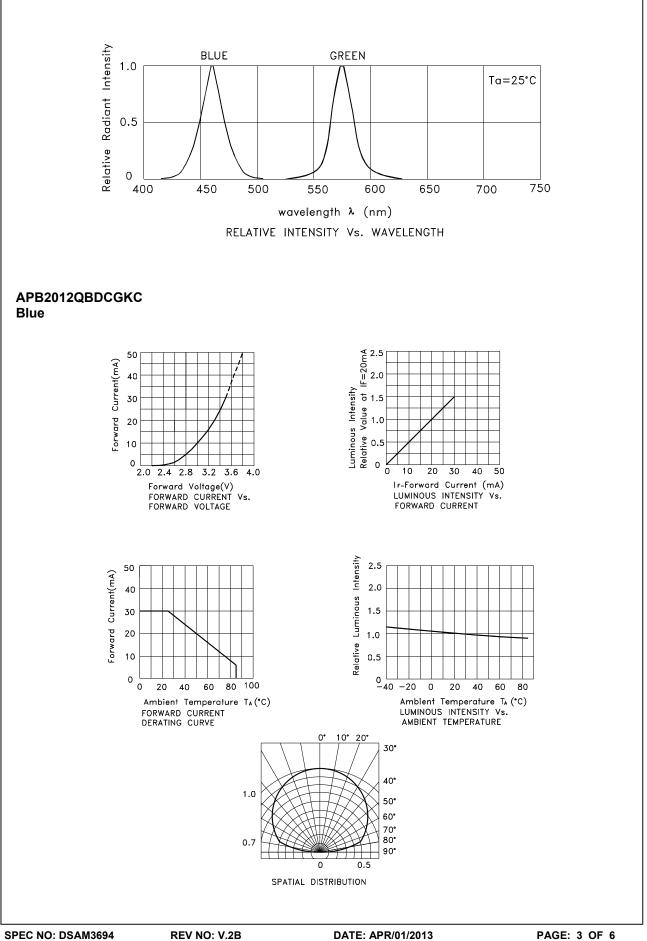
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue Green	460 574		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Blue Green	465 570		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue Green	25 20		nm	I⊧=20mA
С	Capacitance	Blue Green	100 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Blue Green	3.3 2.1	4 2.5	V	I⊧=20mA

Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

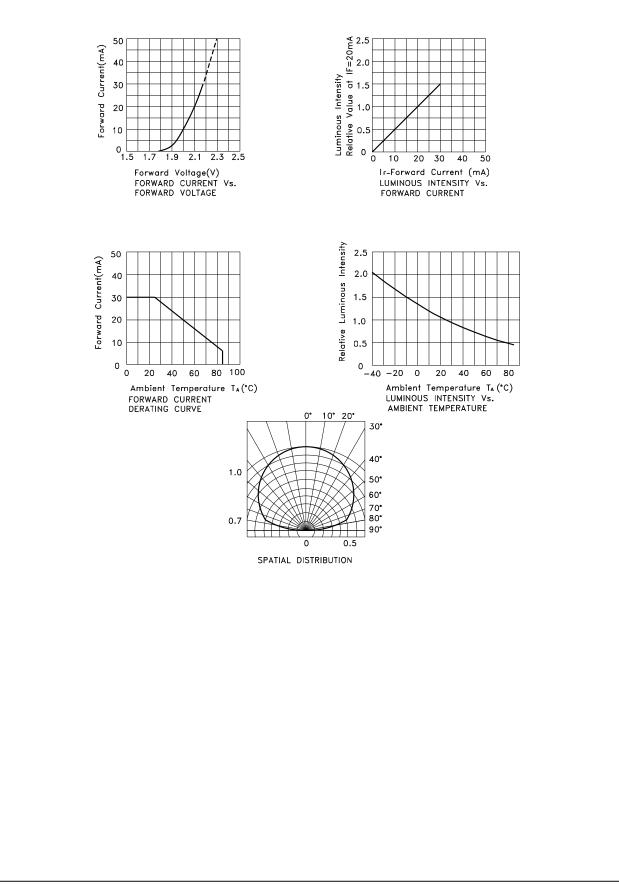
Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Green	Units		
Power dissipation	120	75	mW		
DC Forward Current	30	30	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.

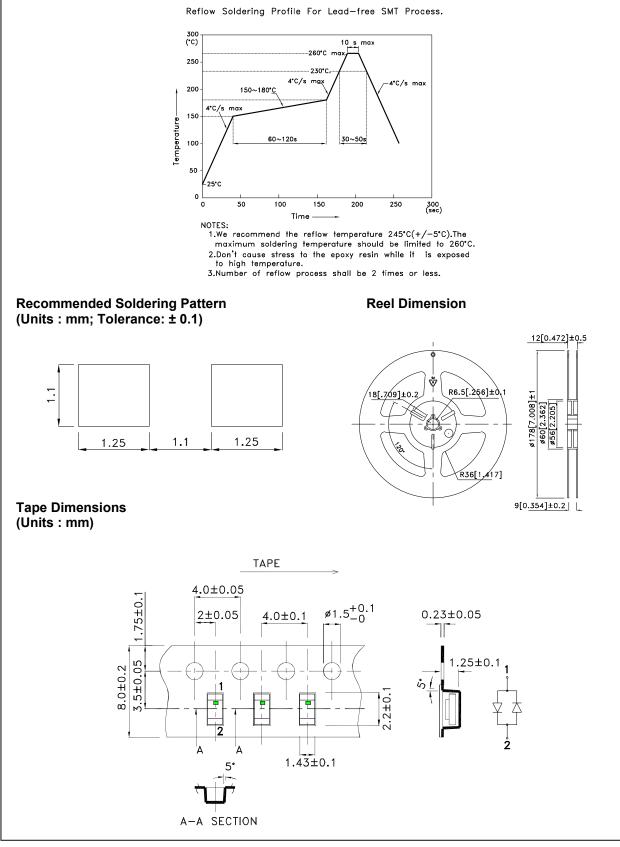


Green

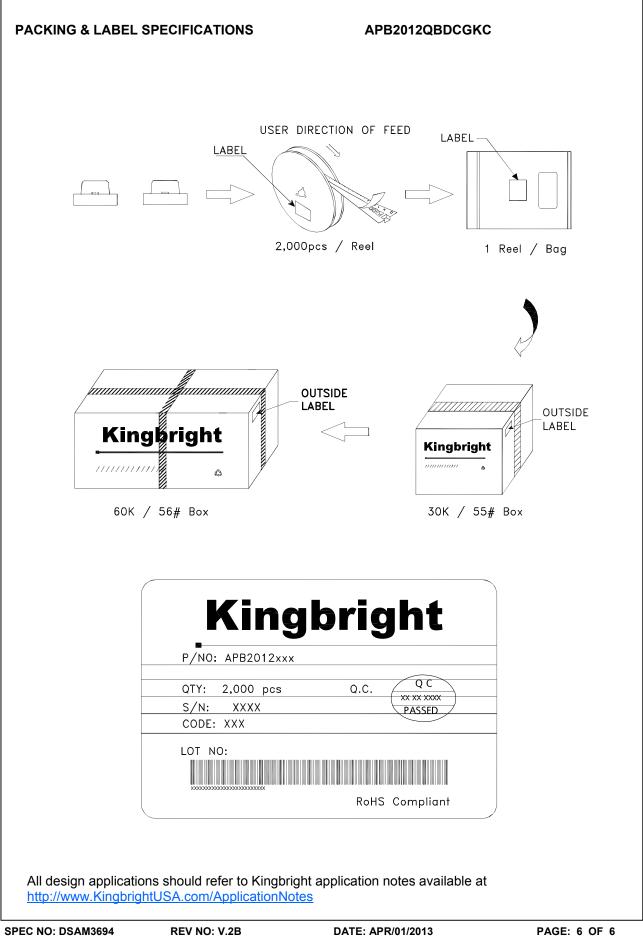


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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