#### PRELIMINARY SPEC



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### Features

- 1.6mmX0.8mm SMT LED, 0.25mm thickness.
- Low power consumption.
- Wide viewing angle.
- Compatible with automatic placement equipment.
- Ideal for backlight and indicator.
- Package: 2000pcs / reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

### 1.6X0.8mm SMD CHIP LED LAMP (0.25mm Height)

Part Number: APG1608PBC/A B

Blue

#### Description

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

Static electricity and surge damage the LEDS.

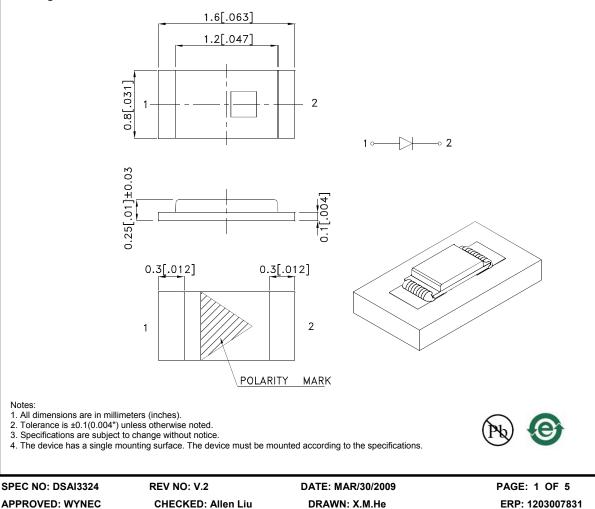
It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

### Applications

Mobile phone Keypad indicator and backlight.
Flat backlight for LCD, switch and symbol.
Toys.

#### **Package Dimensions**



Selection Guide									
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]				
			Min.	Тур.	201/2				
APG1608PBC/A	Blue (InGaN)	WATER CLEAR	18	35	120°				

Notes: 1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	l⊧=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	l⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	21		nm	l⊧=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	4	V	l⊧=20mA
lr	Reverse Current	Blue		10	uA	Vr=5V

Notes:

1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

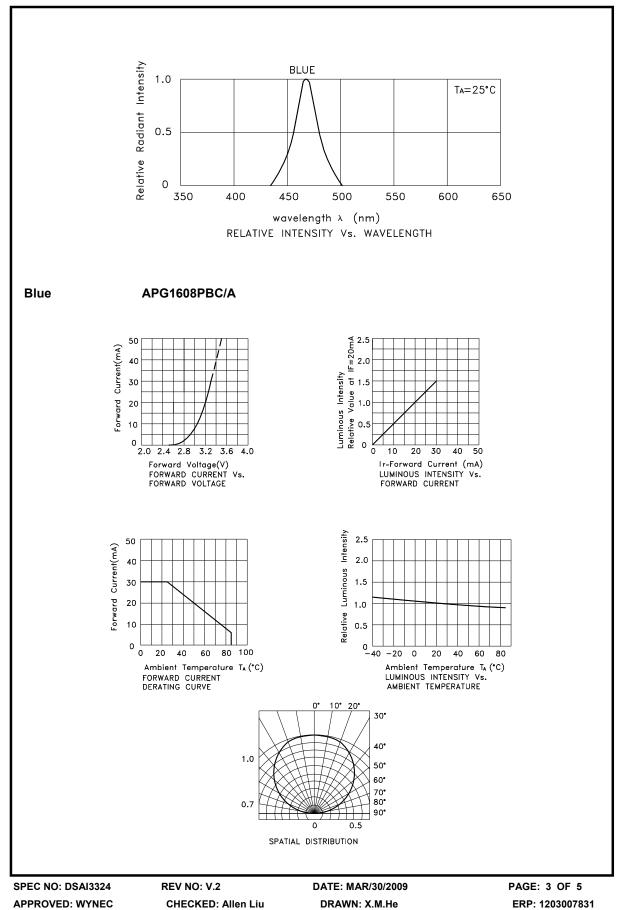
### Absolute Maximum Ratings at TA=25°C

Parameter	Blue	Units	
Power dissipation	120	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	100	mA	
Reverse Voltage	5	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.

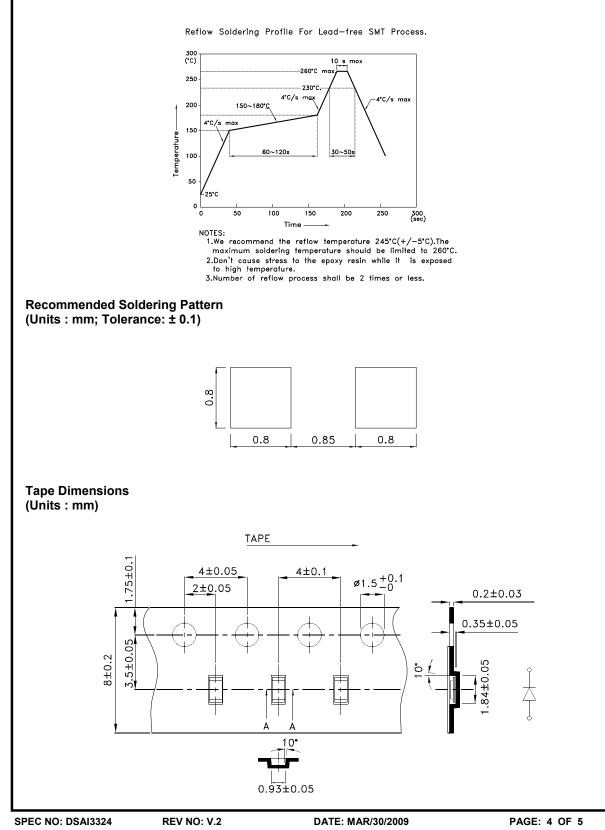
SPEC NO: DSAI3324 APPROVED: WYNEC REV NO: V.2 CHECKED: Allen Liu DATE: MAR/30/2009 DRAWN: X.M.He

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### APG1608PBC/A

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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