#### 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: APG1608PBAZC-RV

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.

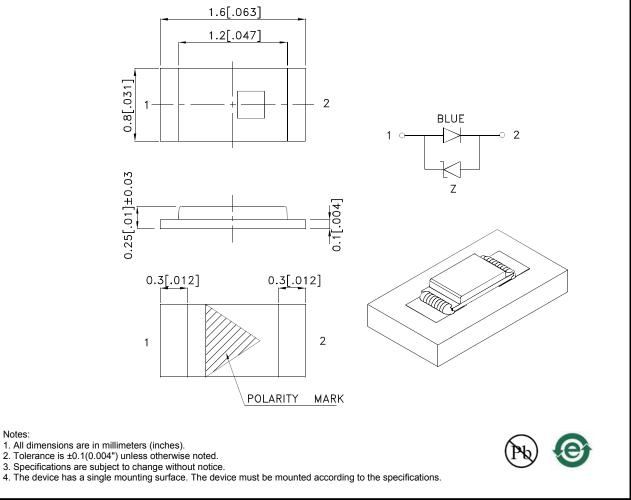
All devices, equipment and machinery must be electrically grounded.

#### **Applications**

1.Mobile phone Keypad indicator and backlight.

2.Flat backlight for LCD, switch and symbol. 3.Toys.





SPEC NO: DSAI5957 **APPROVED: WYNEC**  **REV NO: V.1 CHECKED:** Allen Liu DATE: JUL/31/2008 **DRAWN: S.P.Chen**  PAGE: 1 OF 5 ERP: 1203008038

#### Selection Guide

Selection Oulde					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APG1608PBAZC-RV	Blue (InGaN)	WATER CLEAR	18	35	120°

Notes:

01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
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	I⊧=20mA
λD [1]	Dominant Wavelength	Blue	470		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Blue	21		nm	I⊧=20mA
С	Capacitance	Blue	100		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Blue	3.2	4	V	I⊧=20mA

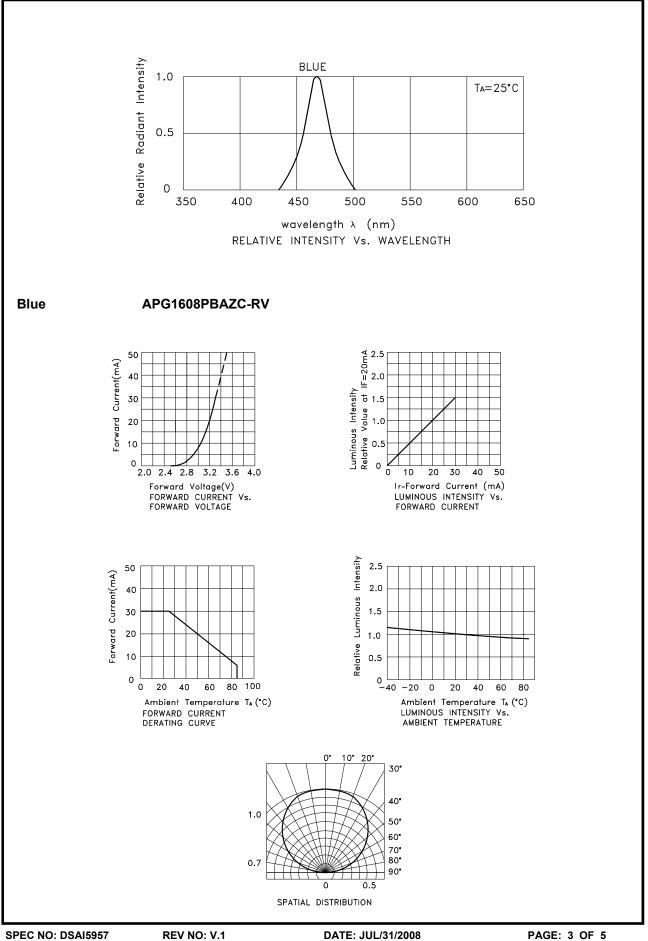
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

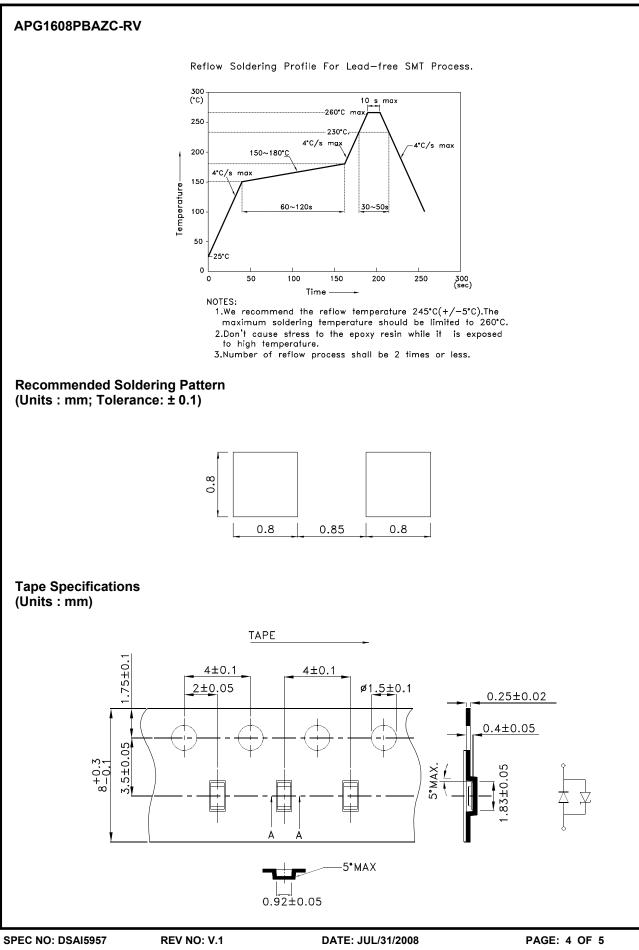
Parameter	Blue	Units		
Power dissipation	120	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	100	mA		
Electrostatic Discharge Threshold (HBM)	8000	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

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



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