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.

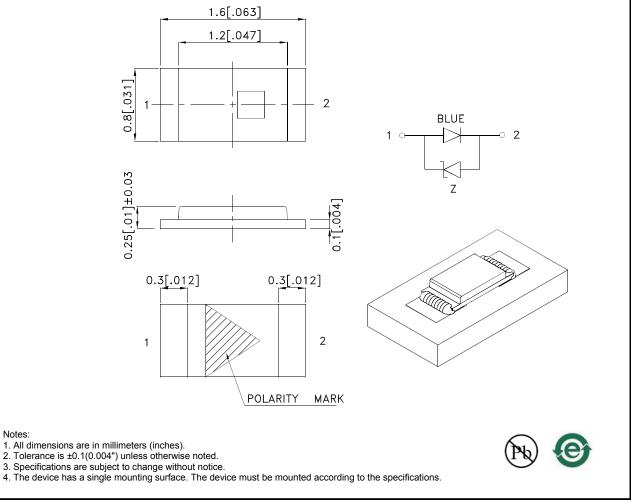
All devices, equipment and machinery must be electrically grounded.

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 |

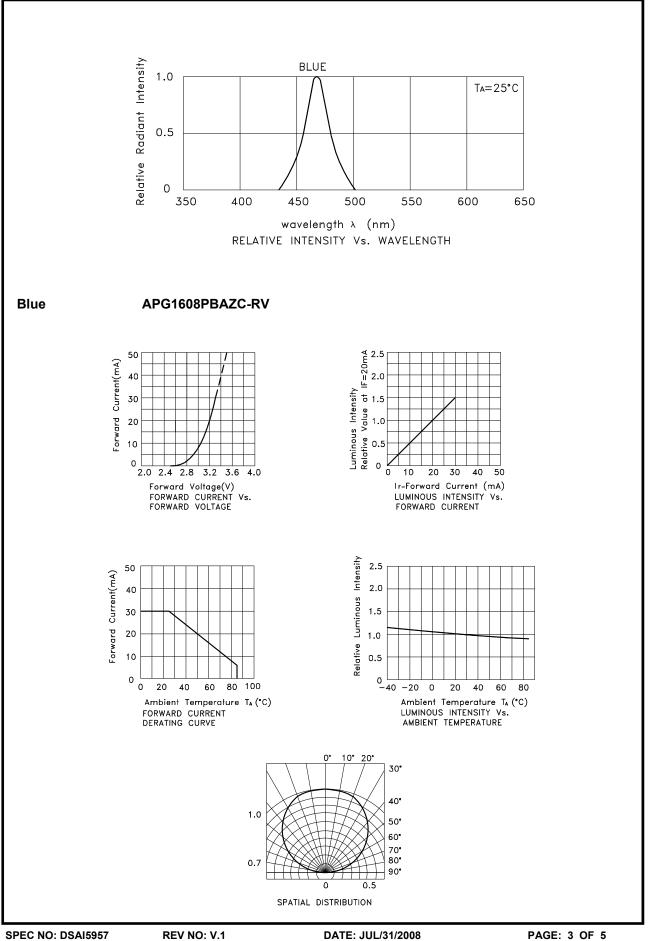
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

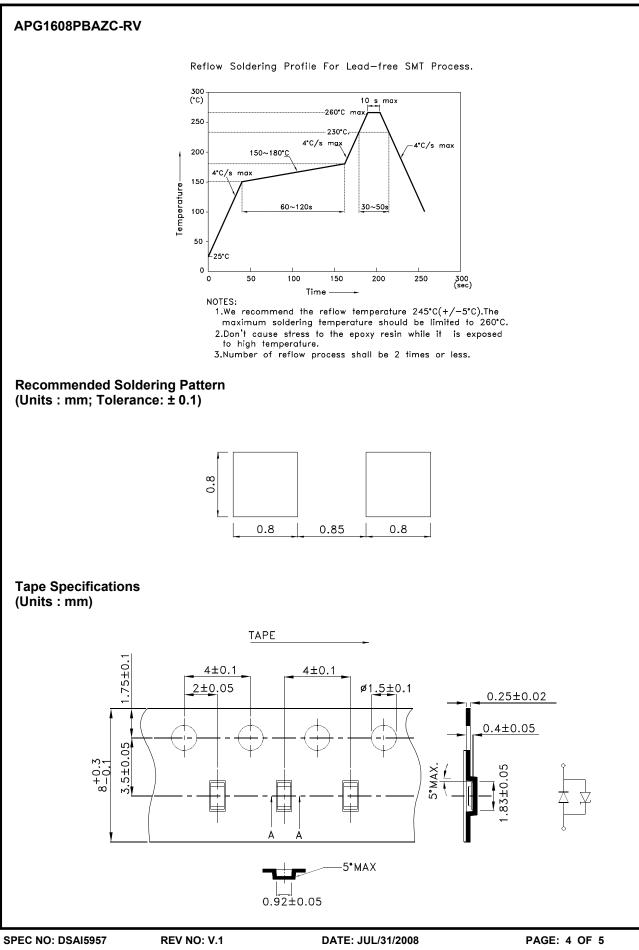
| Parameter | Blue | Units | | |
|---|----------------|-------|--|--|
| Power dissipation | 120 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 100 | mA | | |
| Electrostatic Discharge Threshold (HBM) | 8000 | V | | |
| Operating Temperature | -40°C To +85°C | | | |
| Storage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

Note:

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



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