### 3.2mmx1.6mm SMD CHIP LED LAMP

Blue

Part Number: APT3216MBC

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### Features

- 3.2mmx1.6mm SMT LED, 0.75mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.

#### Description

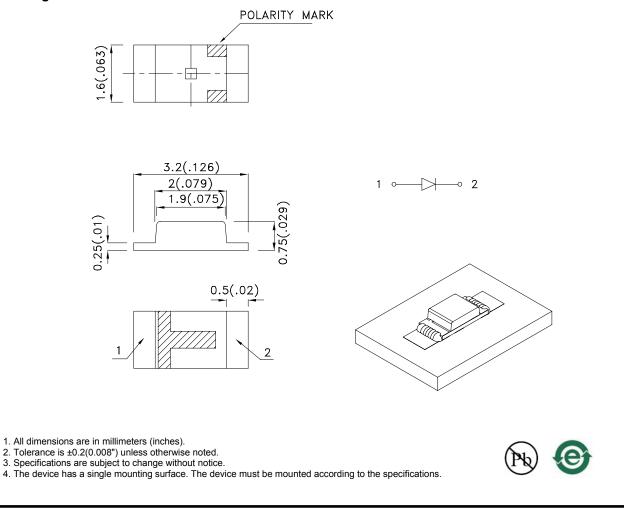
The Blue source color devices are made with GaN on SiC Light Emitting Diode.

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.

### **Package Dimensions**



SPEC NO: DSAD0994 APPROVED: WYNEC REV NO: V.4 CHECKED: Allen Liu DATE: MAY/07/2007 DRAWN: Y.L.LI PAGE: 1 OF 5 ERP: 1203001927

## alaction Guida

| Selection Guide |            |             |                        |      |                         |
|-----------------|------------|-------------|------------------------|------|-------------------------|
| Part No.        | Dice       | Lens Type   | lv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle<br>[1] |
|                 |            |             | Min.                   | Тур. | 201/2                   |
| APT3216MBC      | Blue (GaN) | WATER CLEAR | 4                      | 10   | 120°                    |

Notes:

θ1/2 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   | 430  |      | nm    | I⊧=20mA         |
| λD [1] | Dominant Wavelength      | Blue   | 466  |      | nm    | I⊧=20mA         |
| Δλ1/2  | Spectral Line Half-width | Blue   | 60   |      | nm    | I⊧=20mA         |
| С      | Capacitance              | Blue   | 100  |      | pF    | VF=0V;f=1MHz    |
| VF [2] | Forward Voltage          | Blue   | 3.8  | 4.5  | V     | I⊧=20mA         |
| IR     | Reverse Current          | Blue   |      | 10   | uA    | VR=5V           |

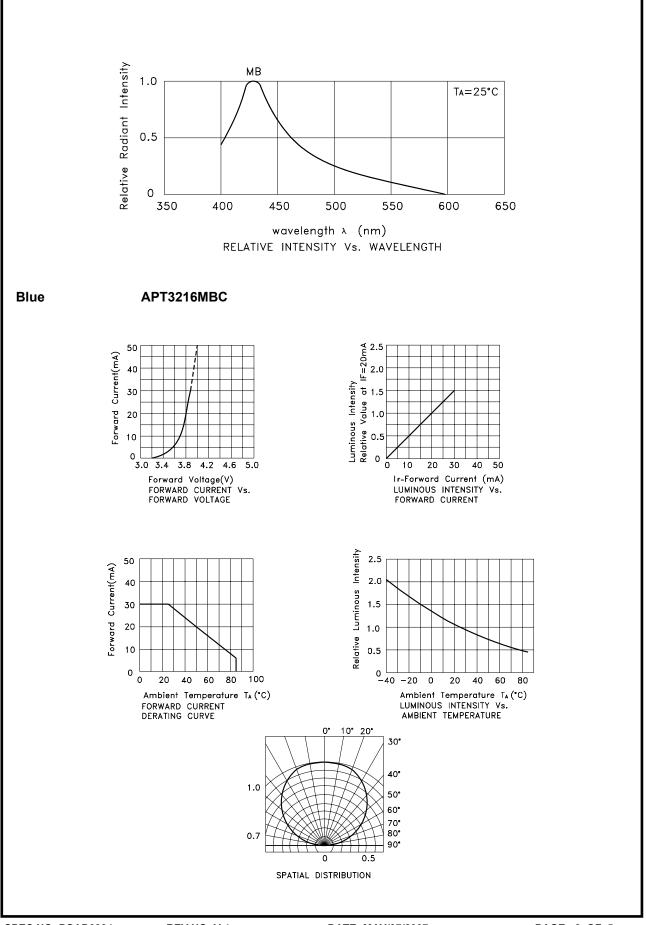
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

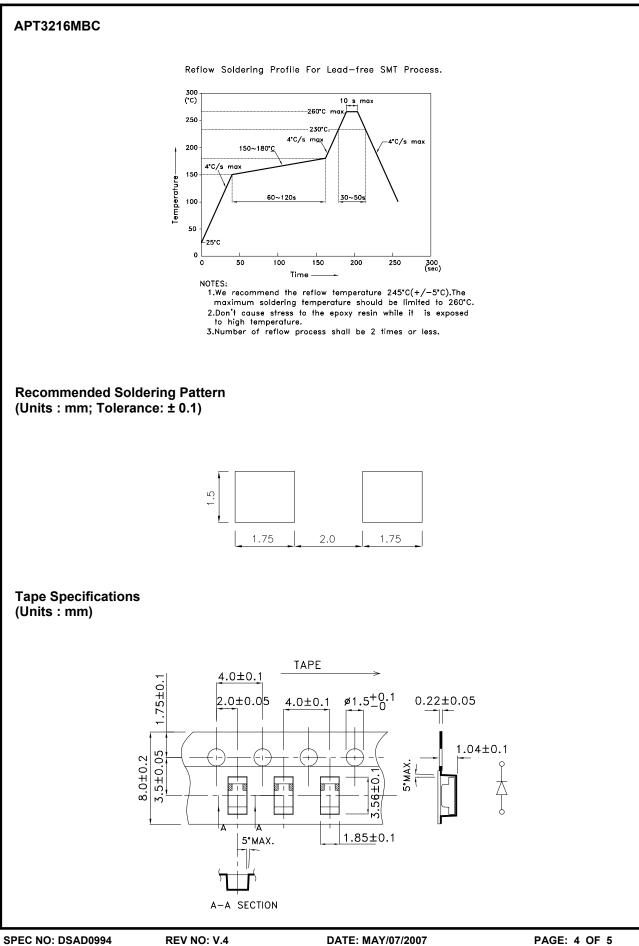
### Absolute Maximum Ratings at TA=25°C

| Parameter                | Blue           | Units |  |
|--------------------------|----------------|-------|--|
| Power dissipation        | 135            | mW    |  |
| DC Forward Current       | 30             | mA    |  |
| Peak Forward Current [1] | 150            | 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.





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