3.2x1.6mm SMD CHIP LED LAMP

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

APTR3216MBC

BLUE

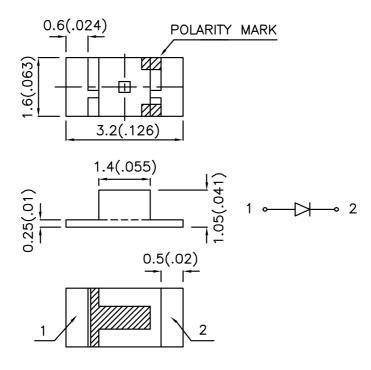
Features

- •3.2mmx1.6mm SMT LED,1.05mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VAVRIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE : 2000PCS / REEL.
- 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



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.

3. Specifications are subject to change without notice.

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| Selection Guide | | | | | | | | |
|-----------------|------------|-------------|--------------------|------|------------------|--|--|--|
| Part No. | Dice | Lens Type | lv (mcd) @ 20mA | | Viewing Angle | | | |
| | | | Min. | Тур. | 201/2 | | | |
| APTR3216MBC | BLUE (GaN) | WATER CLEAR | 4 | 10 | 120° | | | |

Note:

1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

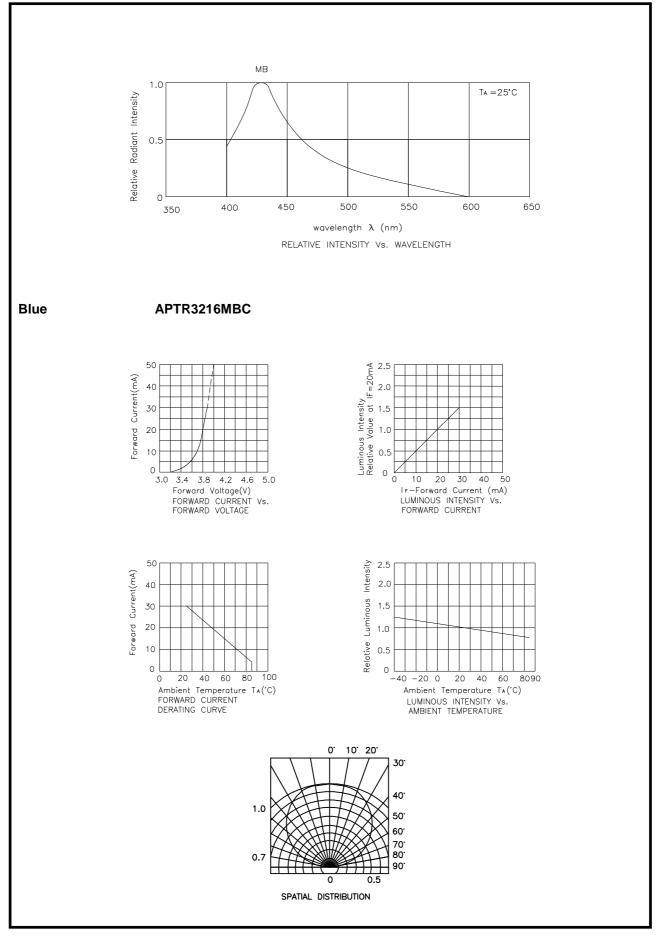
| Symbol | Parameter | Device | Тур. | Max. | Units | Test Conditions |
|--------|--------------------------|--------|------|------|-------|-----------------|
| λpeak | Peak Wavelength | Blue | 430 | | nm | IF=20mA |
| λD | Dominant Wavelength | Blue | 466 | | nm | IF=20mA |
| Δλ1/2 | Spectral Line Half-width | Blue | 60 | | nm | IF=20mA |
| С | Capacitance | Blue | 100 | | pF | VF=0V;f=1MHz |
| Vf | Forward Voltage | Blue | 3.8 | 4.5 | V | IF=20mA |
| IR | Reverse Current | Blue | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

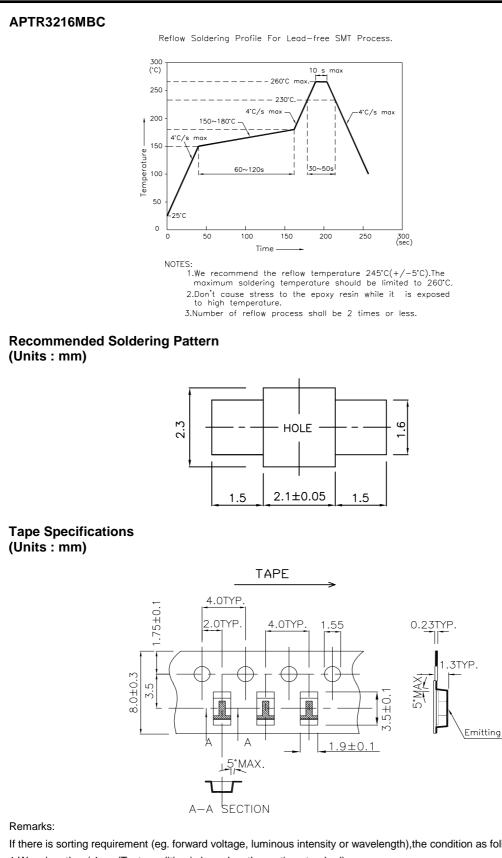
| Parameter | Blue | Units |
|--|------|-------|
| Power dissipation | 105 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 150 | mA |
| Reverse Voltage | 5 | V |
| Operating / Storage Temperature -40°C To +85°C | | |

Note:

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



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If there is sorting requirement (eg. forward voltage, luminous intensity or wavelength), the condition as follows:

1.Wavelength: +/-1nm (Test condition is based on the sorting standard).

2.Luminous intensity: +/-15% (Test condition is based on the sorting standard).

3.Forward voltage: +/-0.1V (Test condition is based on the sorting standard).

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