### 3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTD3216PBC/A Blue



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### **Features**

- 3.2mmX1.6mm SMT LED, 1.8mm 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

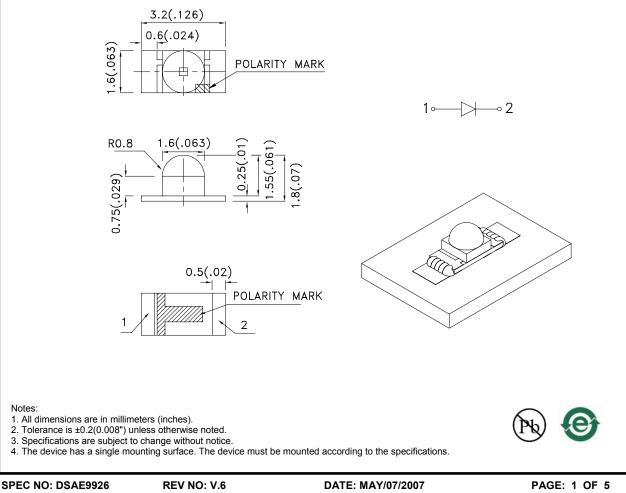
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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.

#### **Package Dimensions**



**APPROVED: WYNEC** 

Notes:

**CHECKED:** Allen Liu

DRAWN: Y.L.LI

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| Selection Guide |              |             |                        |      |                      |  |  |  |  |  |
|-----------------|--------------|-------------|------------------------|------|----------------------|--|--|--|--|--|
| Part No.        | Dice         | Lens Type   | lv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |  |  |  |  |  |
|                 |              |             | Min.                   | Тур. | 201/2                |  |  |  |  |  |
| APTD3216PBC/A   | Blue (InGaN) | WATER CLEAR | 70                     | 220  | 50°                  |  |  |  |  |  |

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    | 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         |
| 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        | 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.

