PRELIMINARY SPEC

3.2mmx1.6mm SMD CHIP LED LAMP

Blue

Part Number: APT3216QBC/F

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

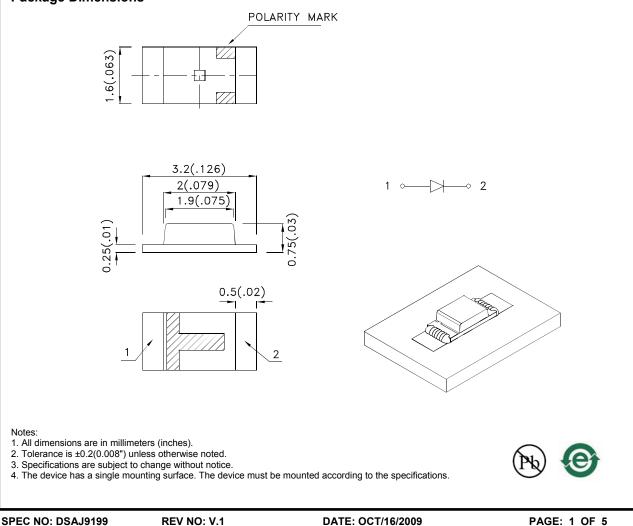
The Blue source color devices are made with InGaN Light Emitting Diode.

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

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Selection Guide

| Part No. | Dice | Lens Type | | lv (mcd) [2] Viev @ 20mA Angl | |
|--------------|--------------|-------------|------|----------------------------------|-------|
| | | | Min. | Тур. | 201/2 |
| APT3216QBC/F | Blue (InGaN) | WATER CLEAR | 70 | 160 | 120° |

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak 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 | 461 | | nm | I⊧=20mA |
| λD [1] | Dominant Wavelength | Blue | 465 | | nm | I⊧=20mA |
| Δλ1/2 | Spectral Line Half-width | Blue | 25 | | nm | I⊧=20mA |
| С | Capacitance | Blue | 100 | | pF | VF=0V;f=1MHz |
| VF [2] | Forward Voltage | Blue | 3.3 | 4 | V | I⊧=20mA |
| lr | Reverse Current | Blue | | 10 | uA | VR=5V |

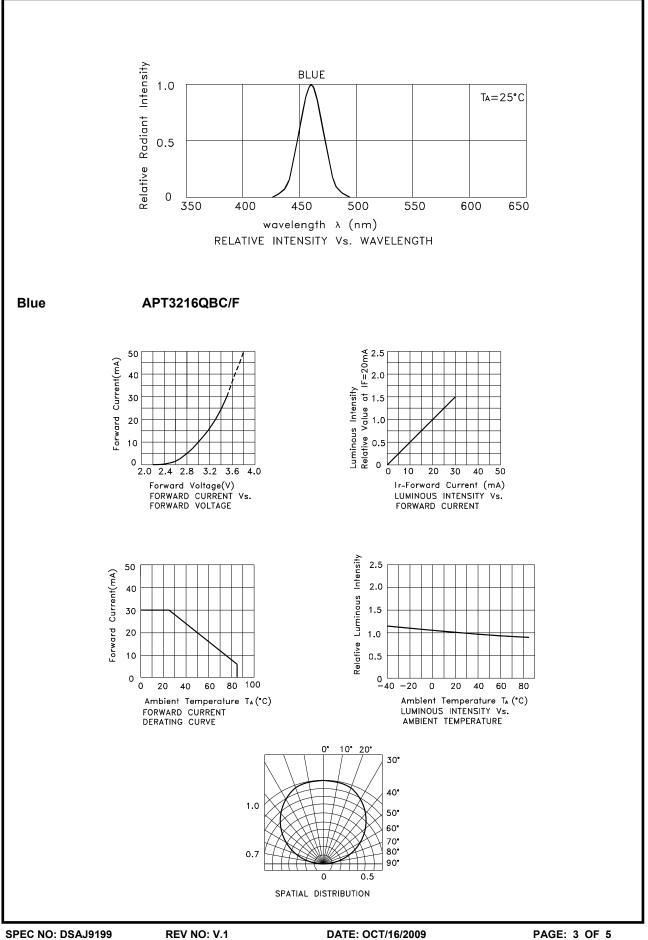
Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

| Parameter | Blue | Units | | |
|--------------------------|----------------|-------|--|--|
| Power dissipation | 120 | mW | | |
| DC Forward Current | 30 | mA | | |
| Peak Forward Current [1] | 150 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating Temperature | -40°C To +85°C | | | |
| Storage Temperature | -40°C To +85°C | | | |

Note:

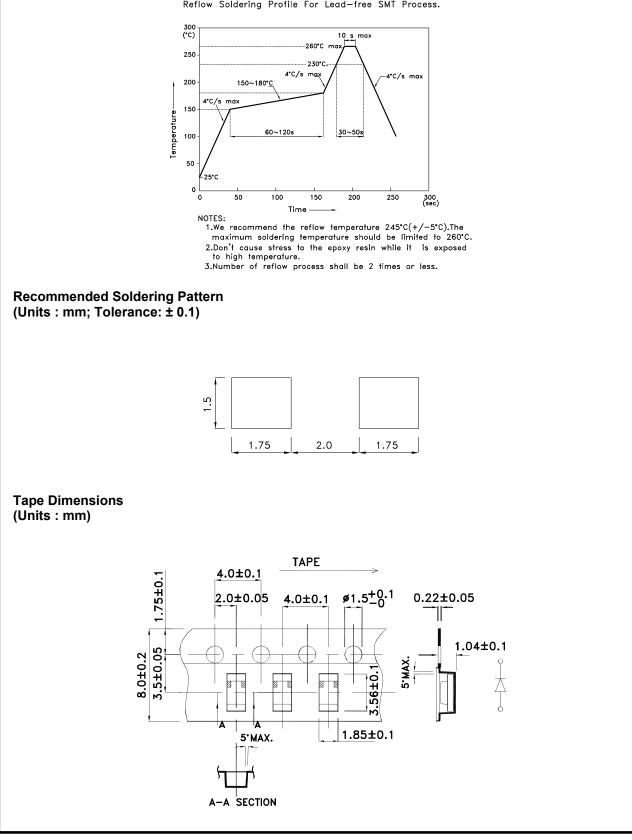
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APT3216QBC/F

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



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