## 3.2x1.6mm SMD CHIP LED LAMP

Part Number: KPTD-3216QBC-G Blue



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

#### **Features**

- 3.2mmX1.6mm SMT LED, 1.8mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- Package: 2000pcs / reel .
- Moisture sensitivity level : level 3.
- · RoHS compliant.

#### Description

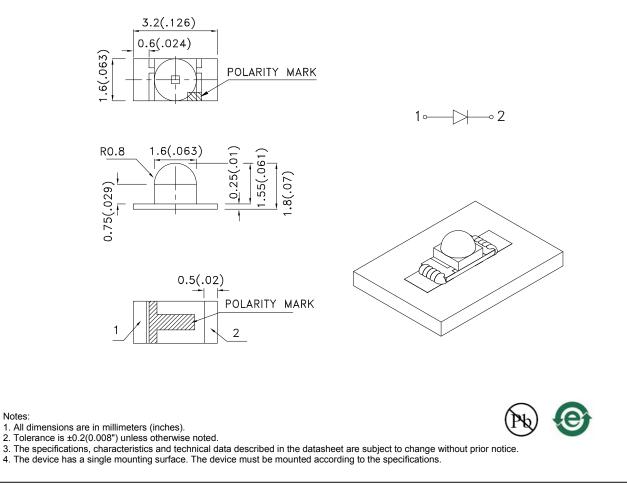
The Blue source color devices are made with InGaN Light Emitting Diode.

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**



SPEC NO: DSAH8462 **APPROVED: WYNEC** 

Notes:

**REV NO: V.4 CHECKED:** Allen Liu DATE: OCT/23/2010 DRAWN: Y.F.Lv

PAGE: 1 OF 5 ERP: 1203007375

#### Selection Guide

|  | Selection Guide |              |             |                        |      |                      |
|--|-----------------|--------------|-------------|------------------------|------|----------------------|
|  | Part No.        | Dice         | Lens Type   | lv (mcd) [2]<br>@ 20mA |      | Viewing<br>Angle [1] |
|  |                 |              |             | Min.                   | Тур. | 201/2                |
|  | KPTD-3216QBC-G  | Blue (InGaN) | Water Clear | 550                    | 900  | 40°                  |

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   |      | 50   | uA    | Vr=5V           |

Notes:

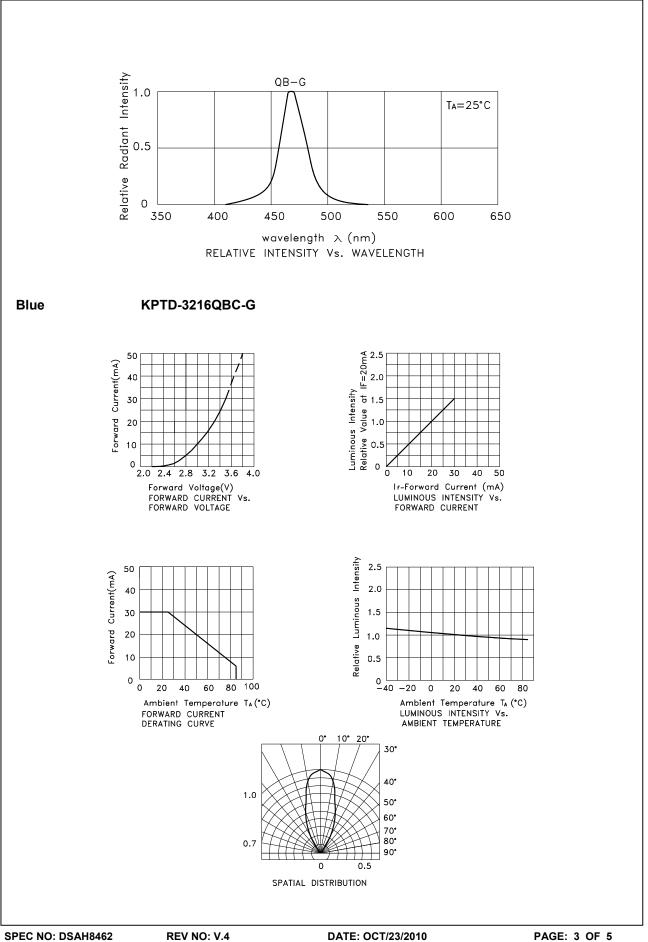
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

#### 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 |       |  |  |

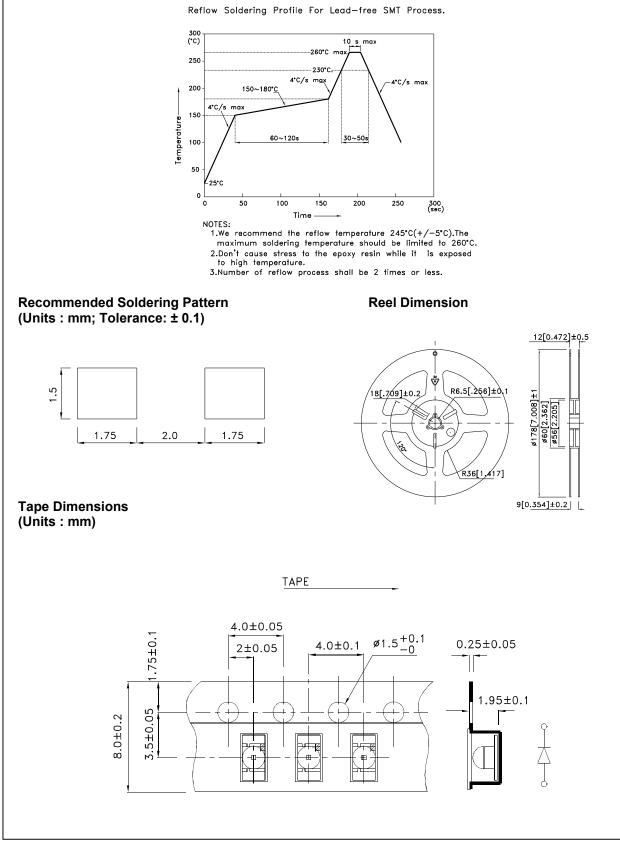
Note:

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



## KPTD-3216QBC-G

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.



REV NO: V.4 CHECKED: Allen Liu DATE: OCT/23/2010 DRAWN: Y.F.Lv PAGE: 4 OF 5 ERP: 1203007375

