

PRELIMINARY SPEC

Part Number: BLB101PBC-A-6V-P

BLUE



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Features

- BUILT-IN CURRENT LIMITING RESISTOR FOR DIRECT APPLICATION OF DIFFERENT ACROSS CURRENT.
- LONG LIFE.
- LOW CURRENT, POWER SAVINGS.
- LOW MAINTENANCE.
- SOLID STATE, HIGH VIBRATION RESISTANT.
- 6V INTERNAL RESISTOR.
- RoHS COMPLIANT.

Description

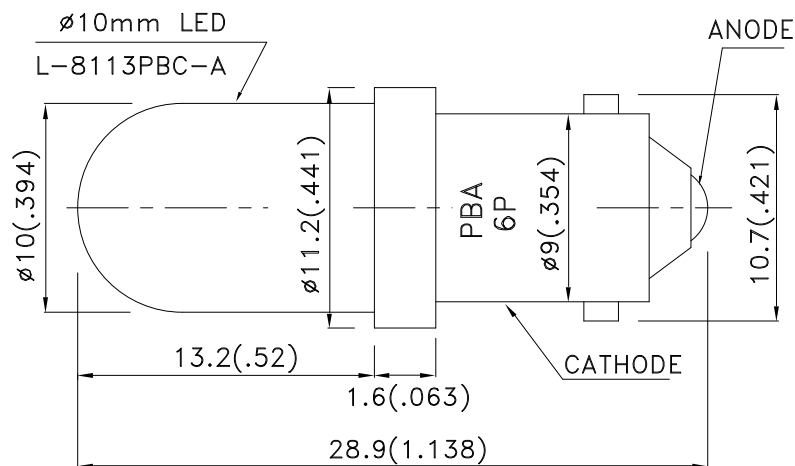
The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

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



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 (0.01") unless otherwise noted.
3. Specifications are subject to change without notice.



Selection Guide

| Part No. | Dice | Lens Type | Iv (mcd) V=6V | | Viewing Angle |
|------------------|--------------|-------------|------------------|------|---------------|
| | | | Min. | Typ. | 2 θ 1/2 |
| BLB101PBC-A-6V-P | BLUE (InGaN) | WATER CLEAR | 380 | 900 | 20° |

Note:

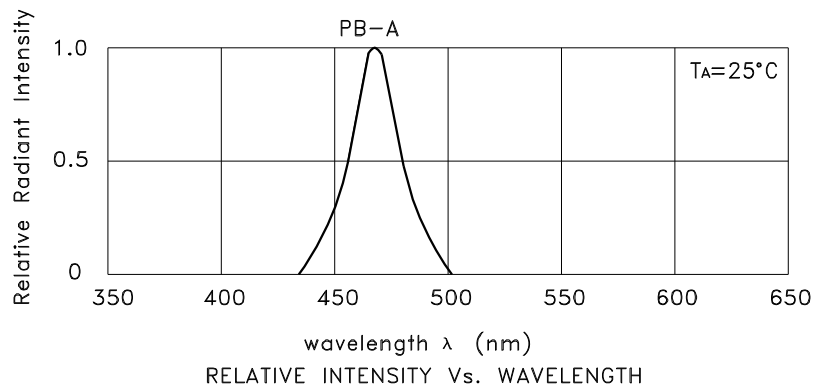
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Electrical / Optical Characteristics at TA=25°C

| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|--------------------------|--------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Blue | 468 | | nm | VF=6V |
| λ_D | Dominant Wavelength | Blue | 470 | | nm | VF=6V |
| $\Delta\lambda_{1/2}$ | Spectral Line Half-width | Blue | 21 | | nm | VF=6V |
| IF | Forward Current | Blue | 14 | | mA | VF=6V |
| IR | Reverse Current | Blue | | 10 | uA | VR = 5V |

Absolute Maximum Ratings at TA=25°C

| Parameter | Blue | Units |
|-----------------------|----------------|-------|
| Power dissipation | 130 | mW |
| Forward Voltage | 7 | V |
| Reverse Voltage | 5 | V |
| Operating Temperature | -40°C To +70°C | |
| Storage Temperature | -40°C To +85°C | |



Blue

BLB101PBC-A-6V-P

