

BLFA052MBC-6V BLUE

## Features

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

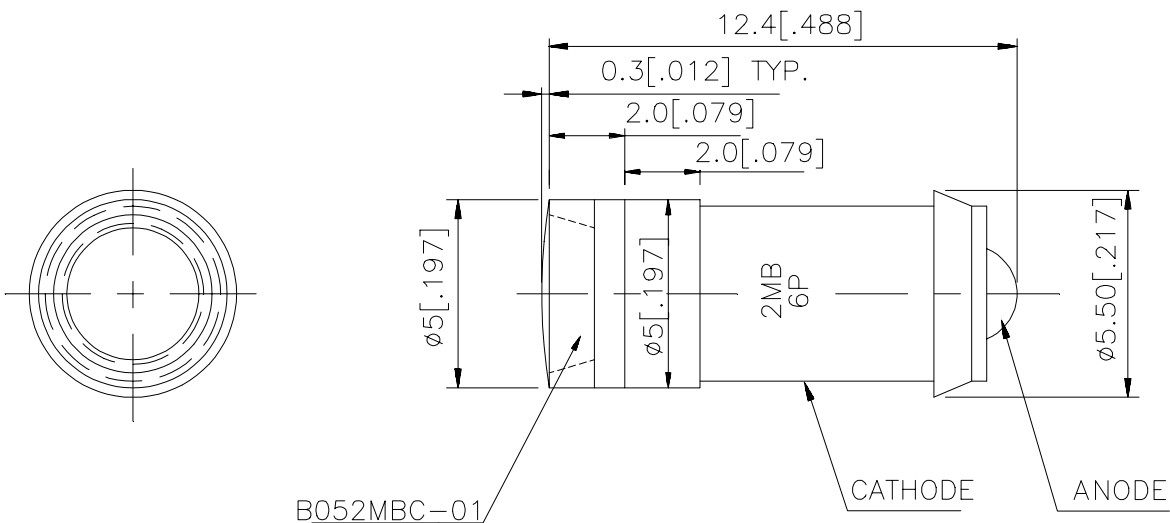
### Description

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  $\pm 0.25(0.01")$  unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

## Selection Guide

| Part No.      | Dice      | Lens Type   | Iv (mcd)<br>V=6V |      | Viewing<br>Angle |
|---------------|-----------|-------------|------------------|------|------------------|
|               |           |             | Min.             | Typ. | 2θ1/2            |
| BLFA052MBC-6V | Blue(GaN) | WATER CLEAR | 8                | 40   | 110°             |

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 T<sub>A</sub>=25°C

| Symbol            | Parameter               | Device | Typ. | Max. | Units | Test Conditions |
|-------------------|-------------------------|--------|------|------|-------|-----------------|
| λ <sub>peak</sub> | Peak Wavelength         | Blue   | 430  | -    | nm    | VF=6V           |
| λ <sub>D</sub>    | Wavelength at Dominate  | Blue   | 455  | -    | nm    | VF=6V           |
| Δλ <sub>1/2</sub> | Spectral Line Halfwidth | Blue   | 60   | -    | nm    | VF=6V           |
| C                 | Capacitance             | Blue   | 65   | -    | pF    | VF=0V;f=1MHz    |
| I <sub>F</sub>    | Forward Current         | Blue   | 20   | -    | mA    | VF=6V           |
| I <sub>R</sub>    | Reverse Current         | Blue   | -    | 10   | uA    | VR = 5V         |

## Absolute Maximum Ratings at T<sub>A</sub>=25°C

| Parameter             | Blue           | Units |
|-----------------------|----------------|-------|
| Power dissipation     | 240            | mW    |
| Forward Voltage       | 7              | mA    |
| Reverse Voltage       | 5              | V     |
| Operating Temperature | -40°C To +70°C |       |
| Storage Temperature   | -40°C To +85°C |       |

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