

W934MBC

BLUE

### Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.

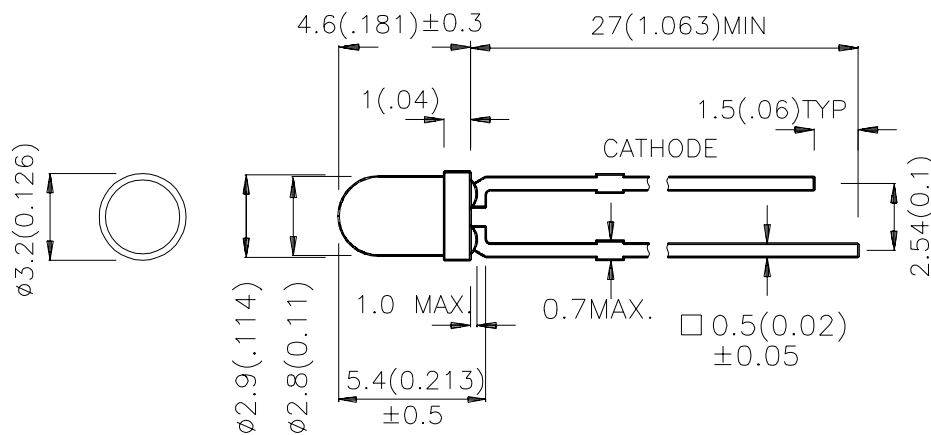
### Description

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>@ 20 mA |      | Viewing<br>Angle |
|----------|------------|-------------|---------------------|------|------------------|
|          |            |             | Min.                | Typ. | 2θ1/2            |
| W934MBC  | BLUE (GaN) | WATER CLEAR | 36                  | 80   | 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 T<sub>A</sub>=25°C

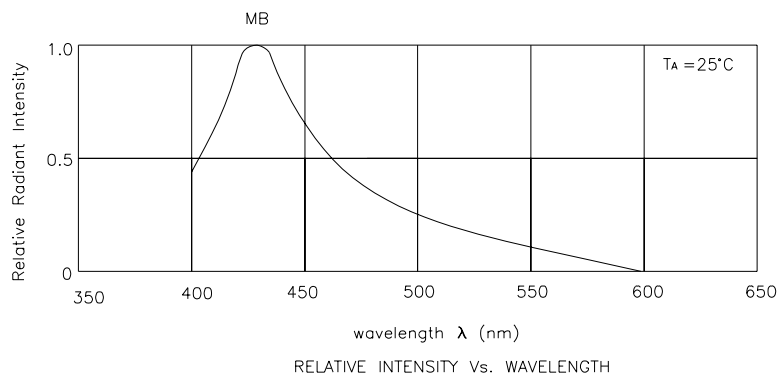
| Symbol            | Parameter                | Device | Typ. | Max. | Units | Test Conditions           |
|-------------------|--------------------------|--------|------|------|-------|---------------------------|
| λ <sub>peak</sub> | Peak Wavelength          | Blue   | 430  |      | nm    | I <sub>F</sub> =20mA      |
| λ <sub>D</sub>    | Dominate Wavelength      | Blue   | 466  |      | nm    | I <sub>F</sub> =20mA      |
| Δλ <sub>1/2</sub> | Spectral Line Half-width | Blue   | 60   |      | nm    | I <sub>F</sub> =20mA      |
| C                 | Capacitance              | Blue   | 100  |      | pF    | V <sub>F</sub> =0V;f=1MHz |
| V <sub>F</sub>    | Forward Voltage          | Blue   | 3.8  | 4.5  | V     | I <sub>F</sub> =20mA      |
| I <sub>R</sub>    | Reverse Current          | Blue   |      | 10   | uA    | V <sub>R</sub> = 5V       |

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

| Parameter                   | Blue                | Units |
|-----------------------------|---------------------|-------|
| Power dissipation           | 105                 | 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      |       |
| Lead Solder Temperature [2] | 260°C For 5 Seconds |       |

Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2mm below package base.



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