

AM2520MBC02 BLUE

Features

- SUBMINIATURE PACKAGE.
- LONG LIFE SOLID STATE RELIABILITY.
- LOW PACKAGE PROFILE.

Description

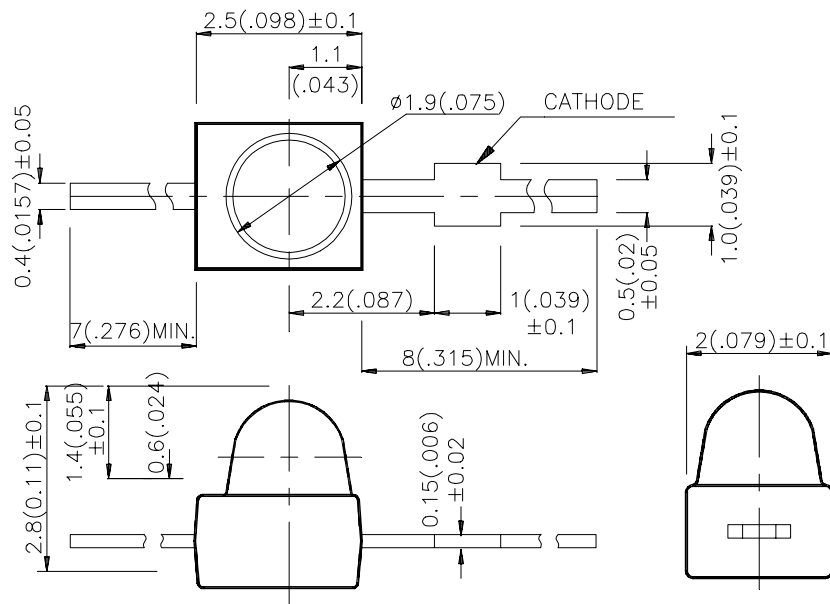
The Blue source color devices are made with GaN on SiC Light Emitting Diode.

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) @ 20 mA | | Viewing Angle |
|-------------|------------|-------------|---------------------|------|------------------|
| | | | Min. | Typ. | 2θ1/2 |
| AM2520MBC02 | BLUE (GaN) | WATER CLEAR | 30 | 60 | 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_A=25°C

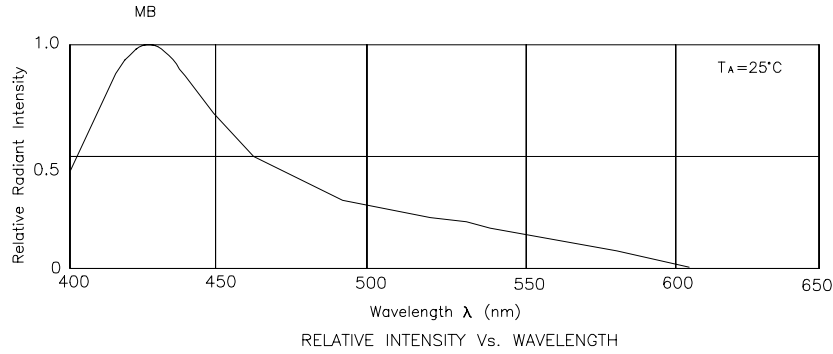
| Symbol | Parameter | Device | Typ. | Max. | Units | Test Conditions |
|-----------------------|-------------------------|--------|------|------|-------|-----------------|
| λ_{peak} | Peak Wavelength | Blue | 430 | | nm | IF=20mA |
| λ_D | Dominant Wavelength | Blue | 455 | | nm | IF=20mA |
| $\Delta\lambda_{1/2}$ | Spectral Line Halfwidth | Blue | 60 | | nm | IF=20mA |
| C | Capacitance | Blue | 65 | | pF | VF=0V;f=1MHz |
| V _F | Forward Voltage | Blue | 4.0 | 4.5 | V | IF=20mA |
| I _R | Reverse Current | Blue | | 10 | μA | VR = 5V |

Absolute Maximum Ratings at T_A=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 +80°C | |
| Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | |

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 4mm below package base.



Blue AM2520MBC02

