

W7083PBD/H BLUE

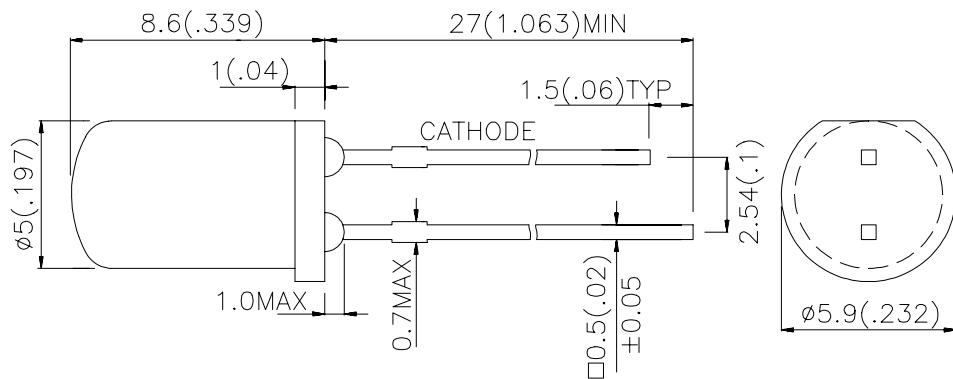
Features

- OUTSTANDING MATERIAL EFFICIENCY.
- RELIABLE AND RUGGED.
- I.C. COMPATIBLE.

Description

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

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 | I _V (mcd) @ 20 mA | | Viewing Angle |
|------------|-------------|---------------|---------------------------------|------|------------------|
| | | | Min. | Typ. | |
| W7083PBD/H | BLUE(InGaN) | BLUE DIFFUSED | 280 | 450 | 60° |

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 |
|----------------|--------------------------|--------|------|------|-------|-----------------------------|
| λpeak | Peak Wavelength | Blue | 467 | | nm | I _F =20mA |
| λ D | Dominate Wavelength | Blue | 470 | | nm | I _F =20mA |
| Δλ1/2 | Spectral Line Half-width | Blue | 30 | | nm | I _F =20mA |
| C | Capacitance | Blue | 110 | | pF | V _F = 0V; f=1MHz |
| V _F | Forward Voltage | Blue | 3.7 | 4.3 | V | I _F =20mA |
| I _R | Reverse Current | Blue | | 10 | uA | V _R = 5V |

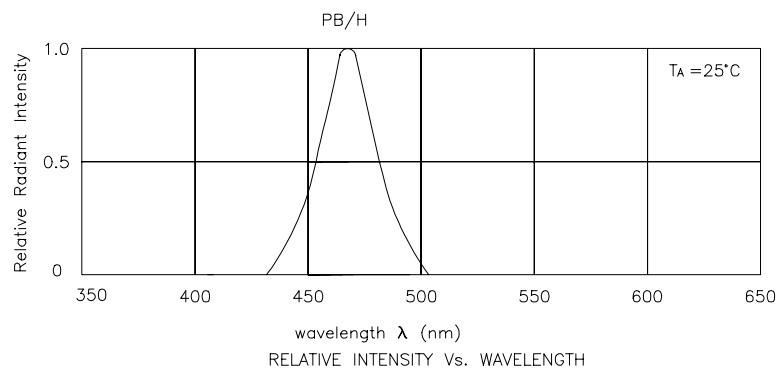
Absolute Maximum Ratings at T_A=25°C

| Parameter | Blue | Units |
|-------------------------------|---------------------|-------|
| Power dissipation | 108 | mW |
| DC Forward Current | 30 | mA |
| Peak Forward Current [1] | 100 | mA |
| Reverse Voltage | 5 | V |
| Operating/Storage Temperature | -40°C To +85°C | |
| Lead Solder Temperature [2] | 260°C For 5 Seconds | |

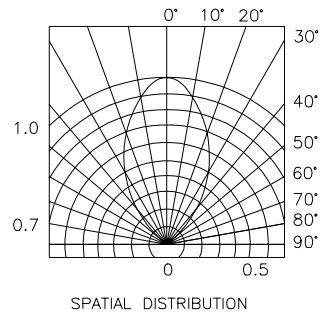
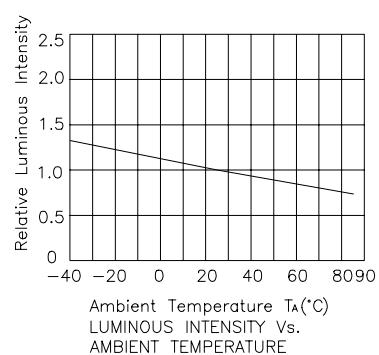
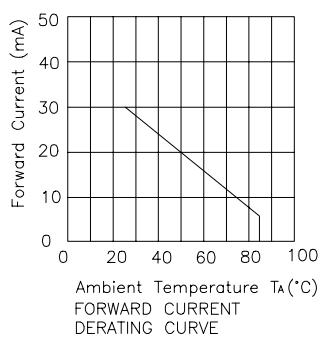
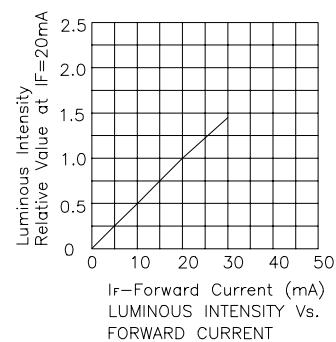
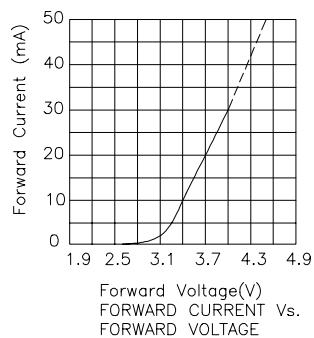
Notes:

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

2. 2mm below package base.



Blue W7083PBD/H



Mouser Electronics

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