

**4.0mm x1.0mm BACK LIGHT**

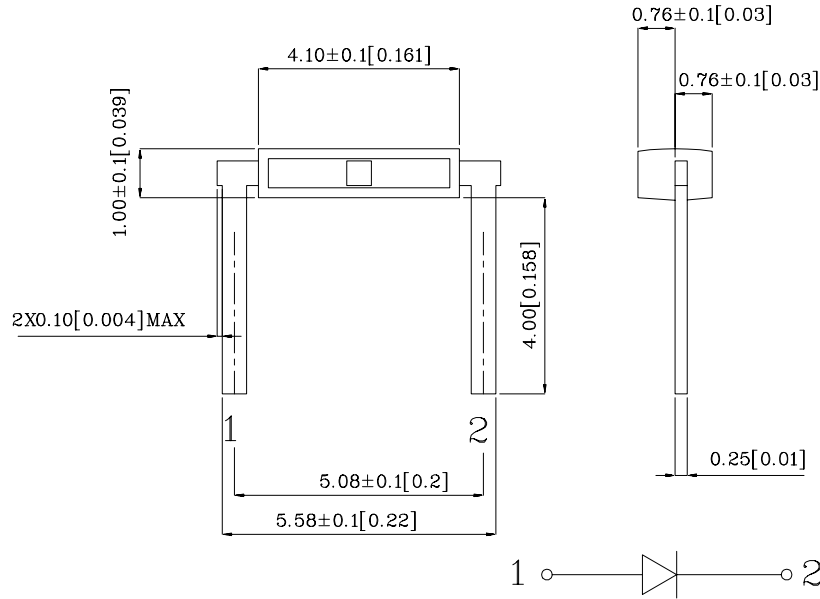


**SUN LED**

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XZBB71W



**Notes:**

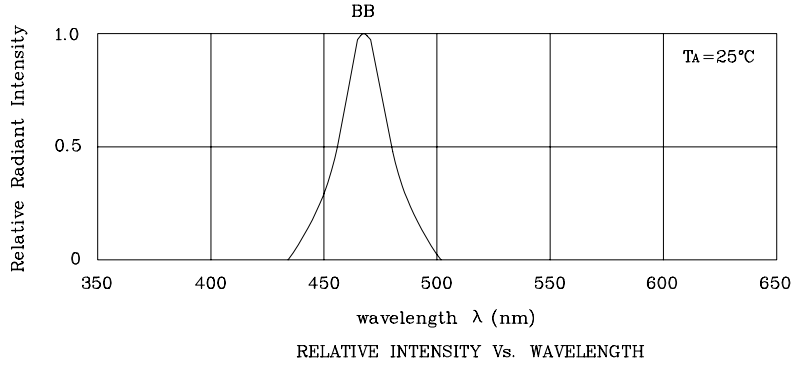
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.

| Absolute maximum ratings<br>(T <sub>A</sub> =25°C)            |                  | BB<br>(InGaN)       | Unit |
|---|------------------|---------------------|------|
| Reverse voltage   | V <sub>R</sub>   | 5                   | V    |
| Forward current   | I <sub>F</sub>   | 30                  | mA   |
| Forward current (peak)<br>1/10Duty cycle<br>0.1ms pulse width | i <sub>FS</sub>  | 160                 | mA   |
| Power dissipation   | P <sub>T</sub>   | 102                 | mW   |
| Operating temperature   | T <sub>A</sub>   | -40 ~ +85           | °C   |
| Storage temperature   | T <sub>stg</sub> |                     |      |
| Lead solder temperature<br>[2mm below package base]           |                  | 260°C For 5 Seconds |      |

| Operating Characteristics<br>(T <sub>A</sub> =25°C)          |                   | BB<br>(InGaN) | Unit |
|--|-------------------|---------------|------|
| Forward voltage (typ.)<br>(I <sub>F</sub> =20mA)             | V <sub>F</sub>    | 3.65          | V    |
| Forward voltage (max.)<br>(I <sub>F</sub> =20mA)             | V <sub>F</sub>    | 4.2           | V    |
| Reverse current<br>(V <sub>R</sub> =5V)                      | I <sub>R</sub>    | 10            | uA   |
| Wavelength at peak<br>emission<br>(I <sub>F</sub> =20mA)     | λ <sub>peak</sub> | 468           | nm   |
| Wavelength at Dominate<br>emission<br>(I <sub>F</sub> =20mA) | λ <sub>D</sub>    | 470           | nm   |
| Spectral Line half-width<br>(I <sub>F</sub> =20mA)           | Δλ                | 25            | nm   |
| Capacitance<br>(V <sub>F</sub> =0V, f=1MHz)                  | C                 | 65            | pF   |

| Part Number | Emitting Color | Emitting Material | Lens-color  | Luminous Intensity<br>(I <sub>F</sub> =20mA)<br>mcd |      | Wavelength<br>nm<br>λ <sub>P</sub> | Viewing Angle<br>2θ1/2 |
|-------------|----------------|-------------------|-------------|---|------|------------------------------------|------------------------|
|             |                |                   |             | min.  | typ. |                                    |                        |
| XZBB71W     | Blue           | InGaN             | Water Clear | 10  | 48   | 468                                | 100°                   |

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**◆BB**

