LED PRODUCTS

BL503V2CA-3B/01
DATA SHEET
Characters

§ High intensity.
§ Viewing angle 13°.
§ Reliable and Rugged
§ Standard 5mm diameter package.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin(Mold)</td>
<td>Epoxy</td>
</tr>
<tr>
<td>Lens Color</td>
<td>Water Transparent</td>
</tr>
<tr>
<td>Lead Frame</td>
<td>Ag Plating Iron Alloy</td>
</tr>
<tr>
<td>Dice</td>
<td>AlInGaP/GaAs</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings (Ta=25°C)

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Dissipation</td>
<td>PD</td>
<td>120</td>
<td>mW</td>
</tr>
<tr>
<td>DC Forward Current</td>
<td>IF</td>
<td>20</td>
<td>mA</td>
</tr>
<tr>
<td>Pulsed Forward Current</td>
<td>IFP</td>
<td>100 *</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse Voltage</td>
<td>VR</td>
<td>5 °</td>
<td>V</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Topr</td>
<td>-25 ~ +80</td>
<td></td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>Tstg</td>
<td>-40 ~ +100</td>
<td></td>
</tr>
<tr>
<td>Soldering Temperature</td>
<td>Tsol</td>
<td>260</td>
<td></td>
</tr>
</tbody>
</table>

* Duty 1/10  Pulse Width 0.1ms
This Rating is Zener Diode
□ At the position of 4mm from the bottom of the package within 5 seconds.

Electrical-Optical Characteristics (Ta=25°C)

<table>
<thead>
<tr>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.8</td>
<td>2.4</td>
</tr>
<tr>
<td>1.3</td>
<td>100</td>
</tr>
<tr>
<td>50</td>
<td>5</td>
</tr>
</tbody>
</table>

Notes:

§ All dimensions are in millimeters (inches).
§ Tolerance is 0.25 (.010) mm unless otherwise noted.
§ Protruded resin under flange is 1.0 mm (.04) max.
§ Lead spacing is measured where the leads emerge from the package.
The data typical, and the value is not guaranteed.

Relative Luminous Intensity-IF
(Ta=25 °C)

IF-Ta

θ – λ(Ta=25 °C)