**Features**

- Optical output power: 600mW (CW)
- Violet Lasing: 400~410nm
- Low operating current: 600mA Typ.
- Low operating voltage: 4.2V Typ.
- Package: 5.6mm
- Multiple transverse mode
- TE mode oscillation

**Application**

- Direct Imaging for PCB
- Industry
- Bio & Medical
- Measurement
### Absolute Maximum Ratings (Tc=25°C)

<table>
<thead>
<tr>
<th>Item</th>
<th>Symbol</th>
<th>Ratings</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical output power</td>
<td>Po</td>
<td>700</td>
<td>mW</td>
</tr>
<tr>
<td>LD Reverse Voltage</td>
<td>V_{R(LD)}</td>
<td>5</td>
<td>V</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>Topr</td>
<td>0 ~ +30</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>Tstg</td>
<td>-40 ~ +85</td>
<td>°C</td>
</tr>
</tbody>
</table>

### Optical and Electrical Characteristics (Tc=25°C)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
<th>Test Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Threshold current</td>
<td>I_{th}</td>
<td>100</td>
<td>140</td>
<td>180</td>
<td>mA</td>
<td>-</td>
</tr>
<tr>
<td>Operating current</td>
<td>I_{op}</td>
<td>450</td>
<td>600</td>
<td>700</td>
<td>mA</td>
<td>Po=600mW</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>V_{op}</td>
<td>3.8</td>
<td>4.2</td>
<td>4.7</td>
<td>V</td>
<td>Po=600mW</td>
</tr>
<tr>
<td>Beam divergence Parallel to the junction</td>
<td>( \theta_{//} )</td>
<td>5</td>
<td>13</td>
<td>25</td>
<td>°</td>
<td>Po=600mW, Full angle 1/e^2</td>
</tr>
<tr>
<td>Beam divergence Perpendicular to the junction</td>
<td>( \theta_{\perp} )</td>
<td>30</td>
<td>42</td>
<td>50</td>
<td>°</td>
<td>Po=600mW, Full angle 1/e^2</td>
</tr>
<tr>
<td>Lasing Wavelength</td>
<td>( \lambda_p )</td>
<td>400</td>
<td>405</td>
<td>410</td>
<td>nm</td>
<td>Po=600mW</td>
</tr>
</tbody>
</table>
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