Features

(1) High power (pulse MAX. 180 mW)
(2) For ×32 speed write CD-R
(3) High coupling efficiency
   The ellipticity (θ⊥/θ∥) is close to 1
(4) Operating temperature (pulse) : MAX. 75°C
(5) GH0781JA2C : ø 5.6 mm package
   GH0781JA6C : Bottom cut ø 5.6 mm package
   suitable for slim drive

Applications

(1) CD-R drives
(2) CD-RW drives

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Conditions</th>
<th>Ratings</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical power output</td>
<td>Po</td>
<td>–</td>
<td>MAX. 120</td>
<td>mW</td>
</tr>
<tr>
<td>Optical power output (pulse)</td>
<td>Pp</td>
<td>–</td>
<td>MAX. 180</td>
<td>mW</td>
</tr>
<tr>
<td>Threshold current</td>
<td>Ith</td>
<td>–</td>
<td>TYP. 30</td>
<td>mA</td>
</tr>
<tr>
<td>Operating current</td>
<td>Iop</td>
<td>–</td>
<td>TYP. 141</td>
<td>mA</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>Vop</td>
<td>Po=100 mW</td>
<td>MAX. 2.1</td>
<td>V</td>
</tr>
<tr>
<td>Wavelength</td>
<td>λp</td>
<td>–</td>
<td>780 to 787</td>
<td>nm</td>
</tr>
<tr>
<td>Half intensity angle</td>
<td>Parallel θ∥</td>
<td>–</td>
<td>TYP. 8.7</td>
<td>°</td>
</tr>
<tr>
<td></td>
<td>Perpendicular θ⊥</td>
<td>–</td>
<td>TYP. 16</td>
<td>°</td>
</tr>
<tr>
<td>Rise time</td>
<td>Tr</td>
<td>10% - 90%</td>
<td>TYP. 0.8</td>
<td>ns</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>CW</td>
<td>Topc(c)</td>
<td>-10 to +65</td>
<td>°C</td>
</tr>
<tr>
<td></td>
<td>Pulse</td>
<td>Topp(c)</td>
<td>-10 to +70</td>
<td>°C</td>
</tr>
</tbody>
</table>

- This product comes under “The first” on another table of Export trading control list. In case of export, go through the necessary formalities such as acquisition of export license.

Outline Dimensions (Unit:mm)

- Dimension measured at lead base
- 0.5 mm 0.6 mm from reference plane
- Tolerance ±0.2 mm

As of August 2001
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