Light Emitting Diodes

LN1461CTR
Surface Mounting Chip LED
GW Type

Absolute Maximum Ratings \( T_a = 25^\circ \text{C} \)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Rating</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power dissipation</td>
<td>( P_D )</td>
<td>60</td>
<td>mW</td>
</tr>
<tr>
<td>Forward current</td>
<td>( I_F )</td>
<td>20</td>
<td>mA</td>
</tr>
<tr>
<td>Pulse forward current *</td>
<td>( I_{FP} )</td>
<td>60</td>
<td>mA</td>
</tr>
<tr>
<td>Reverse voltage</td>
<td>( V_R )</td>
<td>4</td>
<td>V</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>( T_{op} )</td>
<td>–25 to +80</td>
<td>( ^\circ \text{C} )</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>( T_{stg} )</td>
<td>–30 to +85</td>
<td>( ^\circ \text{C} )</td>
</tr>
</tbody>
</table>

Note) *: The condition of \( I_{FP} \) is duty 10%, Pulse width 1 msec.

Electro-Optical Characteristics \( T_a = 25^\circ \text{C} \)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Conditions</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous intensity</td>
<td>( I_O )</td>
<td>( I_F = 20 \text{ mA} )</td>
<td>1.6</td>
<td>4.5</td>
<td></td>
<td>mcd</td>
</tr>
<tr>
<td>Reverse current</td>
<td>( I_R )</td>
<td>( V_R = 4 \text{ V} )</td>
<td></td>
<td>10</td>
<td></td>
<td>( \mu \text{A} )</td>
</tr>
<tr>
<td>Forward voltage</td>
<td>( V_F )</td>
<td>( I_F = 20 \text{ mA} )</td>
<td>2.2</td>
<td>2.8</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Peak emission wavelength</td>
<td>( \lambda_p )</td>
<td>( I_F = 20 \text{ mA} )</td>
<td>590</td>
<td></td>
<td></td>
<td>nm</td>
</tr>
<tr>
<td>Spectral half band width</td>
<td>( \Delta\lambda )</td>
<td>( I_F = 20 \text{ mA} )</td>
<td>30</td>
<td></td>
<td></td>
<td>nm</td>
</tr>
</tbody>
</table>

Directive characteristics

Relative luminous intensity — \( T_a \)

Relative luminous intensity — \( \lambda_p \)

Relative luminous intensity — \( I_F \)

Relative luminous intensity — \( V_F \)

Maintenance/Discontinued

Maintenance/Discontinued includes the following four Product lifecycle stage:
- Planned maintenance type
- Maintenance type
- Planned discontinued type
- Discontinued type
This product complies with the RoHS Directive (EU 2002/95/EC).

**Package (Unit: mm)**

**LLTFTR2G6100**

- Pin name
  - 1: Anode
  - 2: Cathode

Maintenance/Discontinued includes following four Product lifecycle stages:
- Planned maintenance type
- Maintenance type
- Planned discontinued type
- Discontinued type
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