This product complies with the RoHS Directive (EU 2002/95/EC).

**LN1851CTR**

Surface Mounting Chip LED

**J Type**

- **Absolute Maximum Ratings** $T_a = 25°C$

<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>45</td>
<td>mW</td>
</tr>
<tr>
<td>Forward current</td>
<td>$I_F$</td>
<td>15</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>3</td>
<td>V</td>
</tr>
<tr>
<td>Operating ambient temperature</td>
<td>$T_{opr}$</td>
<td>-25 to +80</td>
<td>°C</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>$T_{stg}$</td>
<td>-30 to +85</td>
<td>°C</td>
</tr>
</tbody>
</table>

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

- **Electro-Optical Characteristics** $T_a = 25°C$

<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>$I_F = 10$ mA</td>
<td>1.3</td>
<td>3.5</td>
<td></td>
<td>mcd</td>
</tr>
<tr>
<td>Reverse current</td>
<td>$I_R$</td>
<td>$V_R = 3$ V</td>
<td></td>
<td></td>
<td>10</td>
<td>μA</td>
</tr>
<tr>
<td>Forward voltage</td>
<td>$V_F$</td>
<td>$I_F = 15$ mA</td>
<td>2.05</td>
<td>2.8</td>
<td></td>
<td>V</td>
</tr>
<tr>
<td>Peak emission wavelength</td>
<td>$\lambda_P$</td>
<td>$I_F = 15$ mA</td>
<td>630</td>
<td></td>
<td></td>
<td>nm</td>
</tr>
<tr>
<td>Spectral half band width</td>
<td>$\Delta \lambda$</td>
<td>$I_F = 15$ mA</td>
<td>40</td>
<td></td>
<td></td>
<td>nm</td>
</tr>
</tbody>
</table>

**Lighting Color**

- Orange

**Maintenance/Discontinued**

Maintenance/Discontinued includes following four Product lifecycle stage.

- Planed maintenance type
- Maintenance type
- Planed discontinued type
- Discontinued type

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SHD00589BEK  
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This product complies with the RoHS Directive (EU 2002/95/EC).

Package (Unit: mm)

**LLDFTR2G5100**

- Pin name
  1: Anode
  2: Cathode

Maintenance/Discontinued includes following four Product lifecycle stage:
(planed maintenance type, maintenance type, planed discontinued typed, discontinued type)
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