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MCL053URC

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Cette fiche technique est
présentée par le fabricant
LED
Super Red, 5mm

Specifications:
Dice material : GaAlAs
Emitted colour : Ultra Bright Red
Lens colour : Water Clear
Peak wavelength : 660nm
Viewing angle : 16°
Luminous intensity (IV) : 1,450mcd

Absolute Maximum Ratings ($T_a = 25°C$)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Unit</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Voltage</td>
<td>5V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reverse Current</td>
<td></td>
<td>10µA ($V_f = 5V$)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td></td>
<td>-40°C to 85°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td></td>
<td>-40°C to 100°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead Soldering Temperature Range</td>
<td></td>
<td>260°C for 5 Seconds</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Electrical/Optical Characteristics at $T_a = 25°C$

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Unit</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luminous Intensity</td>
<td>IV</td>
<td>900</td>
<td>1,450</td>
<td>2,050</td>
<td>mcd</td>
<td>IF = 20mA</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>$2\theta_{1/2}$</td>
<td>-</td>
<td>16</td>
<td>-</td>
<td>degrees</td>
<td>IF = 20mA</td>
</tr>
<tr>
<td>Peak Emission Wavelength</td>
<td>$\lambda_P$</td>
<td>-</td>
<td>660</td>
<td>-</td>
<td>nm</td>
<td>-</td>
</tr>
<tr>
<td>Dominant Wavelength</td>
<td>$\lambda_D$</td>
<td>-</td>
<td>643</td>
<td>-</td>
<td>nm</td>
<td>-</td>
</tr>
<tr>
<td>Spectral Line Half-Width</td>
<td>$\Delta\lambda$</td>
<td>-</td>
<td>20</td>
<td>-</td>
<td>nm</td>
<td>-</td>
</tr>
<tr>
<td>Forward Voltage</td>
<td>VF</td>
<td>1.5</td>
<td>1.85</td>
<td>2.5</td>
<td>V</td>
<td>IF = 20mA</td>
</tr>
<tr>
<td>Power Dissipation</td>
<td>Pd</td>
<td>-</td>
<td>-</td>
<td>85</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Peak Forward Current (Duty 1/10 at 1kHz)</td>
<td>IF (Peak)</td>
<td>-</td>
<td>-</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Recommended Operating Current</td>
<td>IF (Rec)</td>
<td>-</td>
<td>20</td>
<td>-</td>
<td>mA</td>
<td>-</td>
</tr>
</tbody>
</table>
LED
Super Red, 5mm

Ultra Red (GaAlAs) $\lambda_P = 660\text{nm}$

Forward Current vs. Forward Voltage

Forward Current Derating Curve

Luminous Intensity vs. Forward Current

Luminous Intensity vs. Ambient Temperature
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### Description

**Part Number**

- **Description**: LED, 5mm, 16°, Super-Red
- **Part Number**: MCL053URC

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**Part Number Table**

<table>
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<tr>
<th>Description</th>
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<td>MCL053URC</td>
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