L8104-240 PIN Diode

■ FEATURES
・High Power Handling
・Low Capacitance at Zero Bias, Extremely Small Reverse Bias
・Low Series Resistance
・Very Low Insertion Loss, High Isolation
・Repetitive Peak Reverse Voltage 240V
・Hermetic Ceramic MELF Package
・RoHS Compliant
・Pb Free

■ DESCRIPTIONS
The L8104-240 PIN diode is designed for high power antenna switches in two-way radios.

■ ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>PARAMETER</th>
<th>RATING</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vr</td>
<td>Reverse Voltage</td>
<td>240 V</td>
<td>V</td>
</tr>
<tr>
<td>PD</td>
<td>Power Dissipation</td>
<td>3 W</td>
<td>W</td>
</tr>
<tr>
<td>TJ</td>
<td>Junction Temperature</td>
<td>175 °C</td>
<td>°C</td>
</tr>
<tr>
<td>Tstg</td>
<td>Storage Temperature Range</td>
<td>-55 to 175 °C</td>
<td>°C</td>
</tr>
</tbody>
</table>

*) 25℃ contacts

■ ELECTRICAL CHARACTERISTICS (Ta=25℃)

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>PARAMETER</th>
<th>CONDITIONS</th>
<th>LIMITS</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>IR</td>
<td>Reverse Current</td>
<td>VR = 200V</td>
<td>MIN</td>
<td>TYP</td>
</tr>
<tr>
<td>VF</td>
<td>Forward Voltage</td>
<td>IF = 50mA</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CT</td>
<td>Diode Capacitance</td>
<td>VR = 40V, f = 100MHz</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rfs</td>
<td>Forward Series Resistance</td>
<td>IF = 50mA, f = 100MHz</td>
<td>-</td>
<td>0.5</td>
</tr>
<tr>
<td>Rp</td>
<td>Parallel Resistance</td>
<td>VR = 0V, f = 100MHz</td>
<td>1.0</td>
<td>3.0</td>
</tr>
</tbody>
</table>
L8104-240
PIN Diode

TYPICAL PERFORMANCE CHARACTERISTICS

Forward Current vs. Forward Voltage $T_a=25^\circ\text{C}$

Reverse Current vs. Reverse Voltage $T_a=25^\circ\text{C}$

Forward Series resistance vs. Forward Current $T_a=25^\circ\text{C}$

Diode Capacitance vs. Reverse Voltage $T_a=25^\circ\text{C}$

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CONTACT

CEL
4590 Patrick Henry Drive, Santa Clara, Ca 95054
TEL: (408) 919–2500
www.cel.com