**DESCRIPTION**

Metal to silicon junction diode featuring high breakdown, low turn-on voltage and ultrafast switching. Primarily intended for high level UHF/VHF detection and pulse application with broad dynamic range. Matched batches are available on request.

**ABSOLUTE RATINGS** (limiting values)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Parameter</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>VRM</td>
<td>Repetitive Peak Reverse Voltage</td>
<td>70</td>
<td>V</td>
</tr>
<tr>
<td>IF</td>
<td>Forward Continuous Current*</td>
<td>15</td>
<td>mA</td>
</tr>
<tr>
<td>Ptot</td>
<td>Power Dissipation*</td>
<td>430</td>
<td>mW</td>
</tr>
<tr>
<td>Tstg</td>
<td>Storage and Junction Temperature Range</td>
<td>-65 to 200</td>
<td>°C</td>
</tr>
<tr>
<td>TJ</td>
<td>-65 to 200</td>
<td>°C</td>
<td></td>
</tr>
<tr>
<td>TL</td>
<td>Maximum Lead Temperature for Soldering during 10s at 4mm from Case</td>
<td>230</td>
<td>°C</td>
</tr>
</tbody>
</table>

**THERMAL RESISTANCE**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Test Conditions</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rth(j-a)</td>
<td>Junction-ambient*</td>
<td>400</td>
<td>°C/W</td>
</tr>
</tbody>
</table>

**ELECTRICAL CHARACTERISTICS**

**STATIC CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Test Conditions</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBR</td>
<td>Tamb = 25°C</td>
<td>70</td>
<td>V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vf</td>
<td>Tamb = 25°C</td>
<td>0.41</td>
<td>V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Tamb = 25°C</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IR</td>
<td>Tamb = 25°C</td>
<td>0.2</td>
<td>μA</td>
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</tbody>
</table>

**DYNAMIC CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Test Conditions</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Tamb = 25°C</td>
<td>2</td>
<td>pF</td>
<td></td>
<td></td>
</tr>
<tr>
<td>τ</td>
<td>Tamb = 25°C</td>
<td>100</td>
<td>ps</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* On infinite heatsink with 4mm lead length
** Pulse test: tP ≤ 300μs δ < 2%.

Matched batches available on request. Test conditions (forward voltage and/or capacitance) according to customer specification.
Fig. 1: Forward current versus forward voltage at low level (typical values).

Fig. 2: Capacitance C versus reverse applied voltage \( V_R \) (typical values).

Fig. 3: Reverse current versus ambient temperature.

Fig. 4: Reverse current versus continuous reverse voltage (typical values).
Cooling method: by convection and conduction
Marking: clear, ring at cathode end.
Weight: 0.15g