SMALL SIGNAL SCHOTTKY DIODE

Features

• Low forward voltage drop

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repetitive Peak Reverse Voltage</td>
<td>$V_{RRM}$</td>
<td>70</td>
<td>V</td>
</tr>
<tr>
<td>Continuous Forward Current</td>
<td>$I_F$</td>
<td>70</td>
<td>mA</td>
</tr>
<tr>
<td>Surge Non-Repetitive Forward Current (tp = 10 ms)</td>
<td>$I_{FSM}$</td>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>Total Power Dissipation</td>
<td>$P_{tot}$</td>
<td>230</td>
<td>mW</td>
</tr>
<tr>
<td>Thermal Resistance Junction to Ambient</td>
<td>$R_{thJA}$</td>
<td>550</td>
<td>°C/W</td>
</tr>
<tr>
<td>Junction Temperature</td>
<td>$T_J$</td>
<td>150</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>$T_{stg}$</td>
<td>-65 to +150</td>
<td>°C</td>
</tr>
</tbody>
</table>

1) Mounted on epoxy board, with recommended pad layout.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Symbol</th>
<th>Min.</th>
<th>Max.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Breakdown Voltage at $I_R = 10$ μA</td>
<td>$V_{BR}$</td>
<td>70</td>
<td>-</td>
<td>V</td>
</tr>
<tr>
<td>Forward Voltage at $I_F = 1$ mA</td>
<td>$V_F$</td>
<td>-</td>
<td>410</td>
<td>mV</td>
</tr>
<tr>
<td>Reverse Current at $V_R = 50$ V</td>
<td>$I_R$</td>
<td>-</td>
<td>100</td>
<td>nA</td>
</tr>
<tr>
<td>Diode Capacitance at $V_R = 0$ V, f = 1 MHz</td>
<td>$C_{tot}$</td>
<td>-</td>
<td>2</td>
<td>pF</td>
</tr>
</tbody>
</table>
Reverse leakage current versus junction temperature (typical values).

Junction capacitance versus reverse voltage applied (typical values).
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

<table>
<thead>
<tr>
<th>UNIT</th>
<th>A</th>
<th>b_p</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>H_E</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>1.10</td>
<td>0.40</td>
<td>0.15</td>
<td>1.80</td>
<td>1.35</td>
<td>2.80</td>
</tr>
<tr>
<td></td>
<td>0.80</td>
<td>0.25</td>
<td>0.10</td>
<td>1.60</td>
<td>1.15</td>
<td>2.30</td>
</tr>
</tbody>
</table>