MGR70x Series

Silicon Schottky Diodes

Rev. V1

Features
- Fast Switching
- High Breakdown Voltage

Description
The MGR-700 Series are general purpose Schottky barrier diodes specially designed to achieve a high voltage breakdown. This series of diodes can be used in the UHF and VHF frequency bands for pulse shaping, sampling and as fast logic gates.

Electrical Specifications: $T_A = 25^\circ$C

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage Breakdown ($V_B$) $I_R 10 \mu A$</th>
<th>Forward Voltage ($V_F$) $1 mA$</th>
<th>Junction Capacitance ($C_J$) @ 0 Vdc, 1 MHz</th>
<th>Leakage Current ($I_R$) 80% $V_B$ nA</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGR700</td>
<td>8</td>
<td>0.34</td>
<td>1.2</td>
<td>100</td>
</tr>
<tr>
<td>MGR701</td>
<td>8</td>
<td>0.34</td>
<td>1.0</td>
<td>100</td>
</tr>
<tr>
<td>MGR702</td>
<td>20</td>
<td>0.55</td>
<td>1.2</td>
<td>100</td>
</tr>
<tr>
<td>MGR703</td>
<td>20</td>
<td>0.41</td>
<td>1.0</td>
<td>100</td>
</tr>
<tr>
<td>MGR704</td>
<td>70</td>
<td>0.41</td>
<td>2.0</td>
<td>200</td>
</tr>
<tr>
<td>MGR705</td>
<td>70</td>
<td>0.41</td>
<td>1.2</td>
<td>200</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reverse Voltage</td>
<td>See Voltage Ratings</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-55°C to +150°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-65°C to +200°C</td>
</tr>
</tbody>
</table>
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