Features:

- Glass passivated.
- Surge overload rating - 60 amperes peak.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing moulded plastic technique results in expensive product.
- Mounting position: Any.
- Lead: Silver plated copper lead.

Reverse Voltage - 1,000 V
Forward Current - 2 Amperes

Dimensions: Inches (Millimetres)

- 0.396 (9.9)
- 0.354 (9)
- 0.191 (4.6)
- 0.15 (3.8)
- 0.032 (0.81)
- 0.028 (0.71)
- 0.22 (5.6)
- 0.18 (4.6)

Dimensions: Inches (Millimetres)
Bridge Rectifier

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Symbol</th>
<th>2W10MG</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Recurrent Peak Reverse Voltage</td>
<td>( V_{RRM} )</td>
<td>1,000</td>
<td>V</td>
</tr>
<tr>
<td>Maximum RMS Bridge Input Voltage</td>
<td>( V_{RMS} )</td>
<td>700</td>
<td></td>
</tr>
<tr>
<td>Maximum DC Blocking Voltage</td>
<td>( V_{DC} )</td>
<td>1,000</td>
<td></td>
</tr>
<tr>
<td>Maximum Average Forward Rectified Current</td>
<td>( I_{(AV)} )</td>
<td>2</td>
<td>A</td>
</tr>
<tr>
<td>Peak Forward Surge Current, 8.3 ms Single</td>
<td>( I_{FSM} )</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Half Sine-wave Super Imposed on Rated Load</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>( I^2t ) Rating for Fusing (t &lt; 8.3 ms)</td>
<td>( I^2t )</td>
<td>15</td>
<td>A²s</td>
</tr>
<tr>
<td>Maximum Forward Voltage Drop Per Element at 2 A Peak</td>
<td>( V_F )</td>
<td>1.1</td>
<td>V</td>
</tr>
<tr>
<td>Maximum Reverse Current at Rated T(_J) = 25°C</td>
<td>( I_R )</td>
<td>10</td>
<td>µA</td>
</tr>
<tr>
<td>DC Blocking Voltage T(_J) = 100°C</td>
<td></td>
<td>1</td>
<td>mA</td>
</tr>
<tr>
<td>Typical Junction Capacitance Per Element (Note 1)</td>
<td>( C_J )</td>
<td>30</td>
<td>pF</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>( T_J )</td>
<td>-55 to +150</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>( T_{STG} )</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: 1. Measured at 1 MHz and applied reverse Voltage of 4 V dc.

Rating and Characteristics Curves

Forting Curve Output Rectified Current

Maximum Non-Repetitive Peak Forward Surge Current

www.element14.com
www.farnell.com
www.newark.com
Rating and Characteristics Curves

Typical Reverse Characteristics

Instantaneous Reverse Current, Microamperes

Percent of Rated Peak Reverse Voltage

Typical Forward Characteristics

Instantaneous Forward Current Amperes

Instantaneous Forward Voltage, Volts

Typical Junction Capacitance Per Bridge Element

Capacitance, (pF)

Reverse Voltage, Volts

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