M1G THRU M7G

SURFACE MOUNT RECTIFIERS
Reverse Voltage – 50 to 1000 Volts
Forward Current – 1.0 Ampere

Features
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated chip junction
- High temperature soldering: 260°C/10 seconds at terminals

Mechanical Data
- Case: JEDEC DO-214AC, molded plastic.
- Polarity: Indicated by cathode band.

Absolute Maximum Ratings and Characteristics
Ratings 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>Symbol</th>
<th>M1G</th>
<th>M2G</th>
<th>M3G</th>
<th>M4G</th>
<th>M5G</th>
<th>M6G</th>
<th>M7G</th>
<th>Units</th>
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<td>200</td>
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<td>600</td>
<td>800</td>
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</table>

Notes: (1) Reverse recovery test conditions I_{F} = 0.5A, I_{R} = 1A, I_{RR} = 0.25A.
(2) Measured at 1 MHz and applied V_r = 4volts.
(3) 8mm^2 (0.013mm thick) land areas.

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Fig. 1 - Forward Current Derating Curve

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

Fig. 3 - Typical Reverse Characteristics

Fig. 4 - Typical Instantaneous Forward Characteristics

Fig. 5 - Transient Thermal Impedance

Fig. 6 - Typical Junction Capacitance