### Features
- Lead Free Finish/RoHS Compliant (Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix ".HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

### Maximum Ratings
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance (Note 2): 20°C/W Junction to Lead
- Typical Thermal Resistance (Note 3): 70°C/W Junction to Ambient
- Typical Thermal Resistance (Note 2): 85°C/W Junction to Ambient

<table>
<thead>
<tr>
<th>MCC Part Number</th>
<th>Device Marking</th>
<th>Maximum Recurrent Peak Reverse Voltage</th>
<th>Maximum RMS Voltage</th>
<th>Maximum DC Blocking Voltage</th>
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<tr>
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<td>35V</td>
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<td>1000V</td>
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</table>

### Electrical Characteristics @ 25°C Unless Otherwise Specified
- Average Forward Current \( I_{F(AV)} \) 0.5A(2) 0.8A(3) See Fig.1
- Peak Forward Surge Current \( I_{FSM} \) 35A 8.3ms, Half Sine
- Maximum Instantaneous Forward Voltage \( V_F \) 1.0V \( I_{FM} = 0.4A \); \( T_J = 25°C \)
- Maximum DC Reverse Current at Rated DC Blocking Voltage \( I_R \) 5\( \mu \)A 100\( \mu \)A \( T_J = 25°C \); \( T_J = 125°C \)
- Typical Junction Capacitance \( C_J \) 13pF(Typ) 35pF(Max) Measured at 1.0MHz, \( V_R = 4.0V \)
- \( I^2t \) Rating for Fusing \( I_{2t}^2 \) 5.0A*S t=8.3ms

2. On Glass Epoxy P.C.B. Mounted on 0.05 x 0.05*(1.3 x 1.3mm) Pads
3. On Aluminum Substrate P.C.B. with an Area of 0.8" x 0.8"(20 x 20mm) Mounted on 0.05 x 0.05*(1.3x 1.3mm) Solder Pad
Curve Characteristics

Fig. 1 - Forward Current Derating Curve

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

Fig. 3 - Typical Instantaneous Forward Characteristics

Fig. 4 - Typical Reverse Leakage Characteristics
Ordering Information

<table>
<thead>
<tr>
<th>Device</th>
<th>Packing</th>
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<td>(Part Number)-TP</td>
<td>Tape&amp;Reel:3Kpcs/Reel</td>
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Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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