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|---|----------------|
|  | E480232 |
|---|----------------|

Features

- Glass Passivated Junction
- Excellent Clamping Capability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Mechanical Data

- Weight: 0.4g

Maximum Ratings

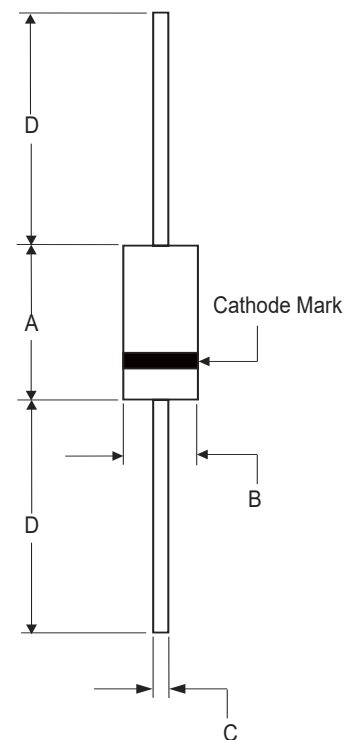
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C

| | | | |
|--|-------------|---------------|---|
| Peak Pulse Power Surge Current with a 10/1000µs Waveform | I_{PPM} | See the Table | Note 2 |
| Peak Pulse Power Dissipation with a 10/1000µs Waveform | P_{PPM} | 500W(Min) | Note 2 |
| Steady State Power Dissipation | $P_{M(AV)}$ | 3.0 W | $T_L=75^\circ\text{C}$ with lead lengths or 0.375"(9.5mm) |

NOTE:1) High Temperature Solder Exemption Applied, see EU Directive Annex 7a.
2) Non-repetitive current pulse, per Fig.3 and derated above TA=25°C, per Fig.4

500W Low Capacitance TVS

DO-15



| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|-------|-------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.230 | 0.300 | 5.80 | 7.60 | |
| B | 0.104 | 0.140 | 2.60 | 3.60 | |
| C | 0.026 | 0.035 | 0.70 | 0.90 | |
| D | 1.000 | ----- | 25.40 | ----- | |

Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC PART NUMBER | STAND-OFF VOLTAGE (NOTE 1) $V_{WM}(V)$ | MINIMUM BREAKDOWN VOLTAGE AT $I_T=1.0Ma$ $V_{(BR)}(V)$ | MAXIMUM REVERSE LEAKAGE AT V_{WM} $I_R(\mu A)$ | MAXIMUM CLAMPING VOLTAGE AT $I_{PP}=5.0A$ $V_C(V)$ | MAXIMUM PEAK PULSE CURRENT PER FIG.3 $I_{PP}(A)$ | MAXIMUM JUNCTION CAPACITANET AT 0 VOLTS pF | WORKING INVERSE BLOCKING VOLTAGE $V_{WIB}(V)$ | PEAK INVERSE BLOCKING VOLTAGE $V_{PIB}(V)$ |
|-----------------|--|--|--|--|--|--|---|--|
| SAC5.0 | 5.0 | 7.60 | 300 | 10.0 | 44.0 | 50 | 75 | 100 |
| SAC6.0 | 6.0 | 7.90 | 300 | 11.2 | 41.0 | 50 | 75 | 100 |
| SAC7.0 | 7.0 | 8.33 | 300 | 12.6 | 38.0 | 50 | 75 | 100 |
| SAC8.0 | 8.0 | 8.89 | 100 | 13.4 | 36.0 | 50 | 75 | 100 |
| SAC8.5 | 8.5 | 9.44 | 50 | 14.0 | 34.0 | 50 | 75 | 100 |
| SAC10 | 10.0 | 11.10 | 5 | 16.3 | 29.0 | 50 | 75 | 100 |
| SAC12 | 12.0 | 13.30 | 5 | 19.0 | 25.0 | 50 | 75 | 100 |
| SAC15 | 15.0 | 16.70 | 5 | 23.6 | 20.0 | 50 | 75 | 100 |
| SAC18 | 18.0 | 20.00 | 5 | 28.8 | 15.0 | 50 | 75 | 100 |
| SAC22 | 22.0 | 24.40 | 5 | 35.4 | 14.0 | 50 | 75 | 100 |
| SAC26 | 26.0 | 28.90 | 5 | 42.3 | 11.1 | 50 | 75 | 100 |
| SAC30 | 30.0 | 33.30 | 5 | 48.6 | 10.0 | 50 | 75 | 100 |
| SAC36 | 36.0 | 40.00 | 5 | 60.0 | 8.6 | 50 | 75 | 100 |
| SAC45 | 45.0 | 50.00 | 5 | 77.0 | 6.8 | 50 | 150 | 200 |
| SAC50 | 50.0 | 55.50 | 5 | 88.0 | 5.8 | 50 | 150 | 200 |

NOTE:1) Non-repetitive current pulse, per Fig.3 and derated above $T_A=25^\circ C$, per Fig.4

Curve Characteristics

Fig. 1 - Peak Pulse Power Rating Curve

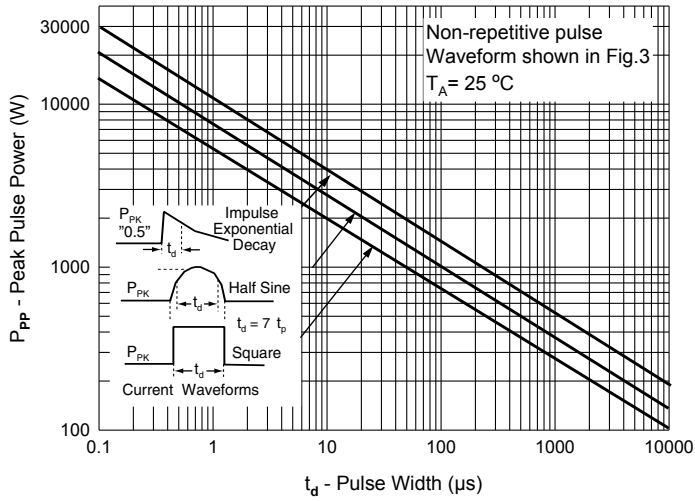


Fig. 2 - Typical Junction Capacitance

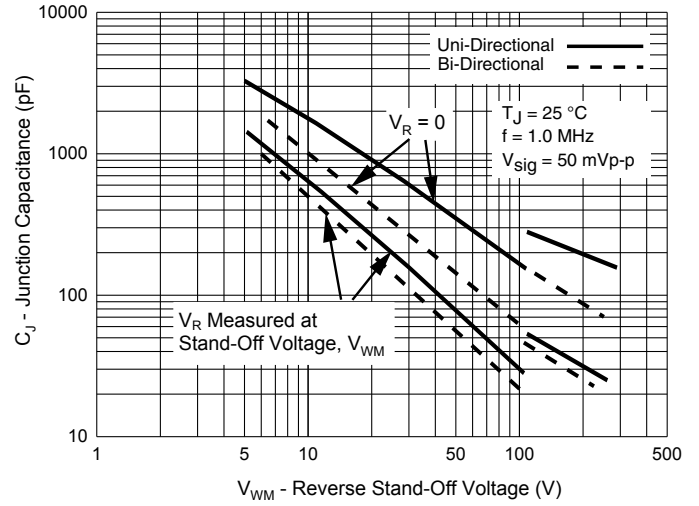


Fig. 3 - Pulse Waveform

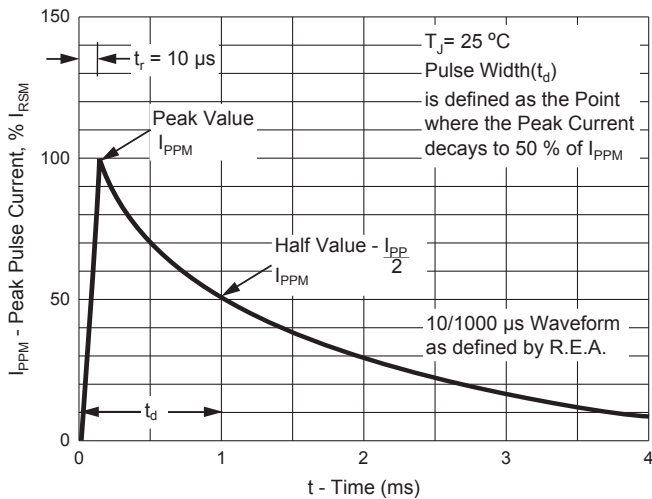
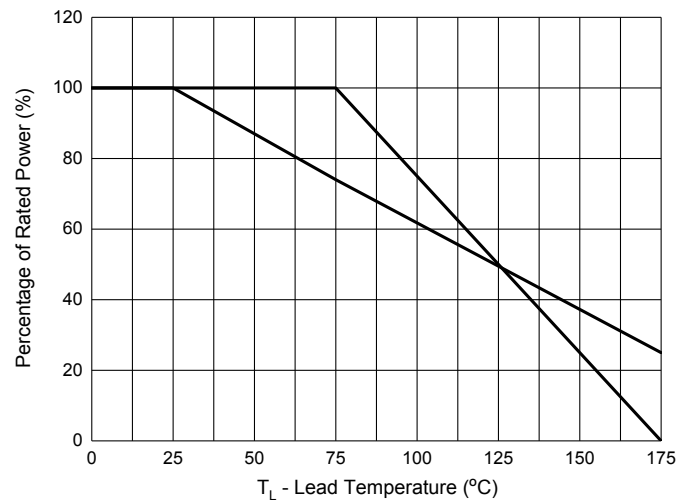


Fig. 4 - Power Derating Curve



Ordering Information

| Device | Packing |
|------------------|------------------------------|
| (Part Number)-TP | Tape&Reel: 4Kpcs/Reel |
| (Part Number)-AP | Ammo Packing: 3Kpcs/Ammo Box |
| (Part Number)-BP | Bulk: 25Kpcs/Carton |

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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