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|  | E540886 |
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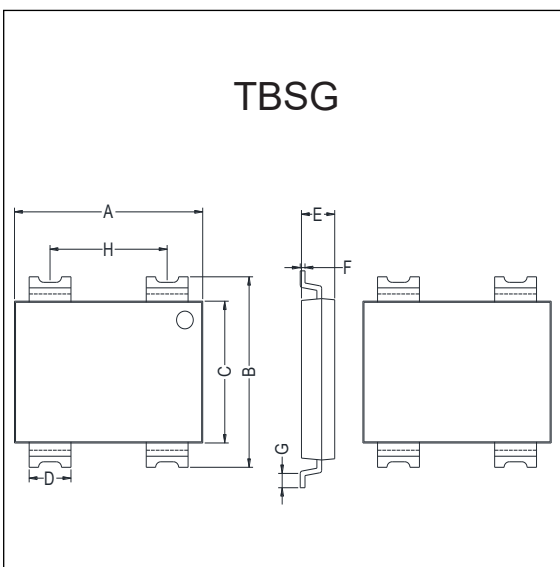
Features

- Halogen Free. "Green" Device (Note 1)
- Glass Passivated Chip Junction
- Moisture Sensitivity Level 1
- Ideal for Automated Placement
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix Designates RoHS Compliant. See Ordering Information)

3 Amp Bridge Rectifiers 1000 Volts

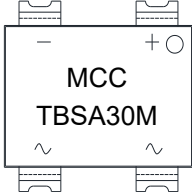
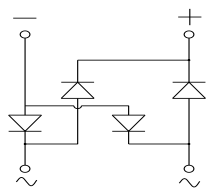
Maximum Ratings @ 25°C (Unless Otherwise Specified)

| Parameter | Symbol | Value | Unit |
|--|-------------|-------|----------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 1000 | V |
| Working Peak Reverse Voltage | V_{RWM} | | |
| DC Blocking Voltage | V_R | | |
| RMS Reverse Voltage | V_{RMS} | 700 | V |
| Average Rectified Forward Current , $T_C=115^\circ\text{C}$ | $I_{F(AV)}$ | 3 | A |
| Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave | I_{FSM} | 110 | A |
| Non-Repetitive Peak Surge Current @ 1ms Square Wave | | 220 | |
| I^2t Rating for Fusing @ $1\text{ms} \leq t \leq 8.3\text{ms}$ | I^2t | 50.2 | A^2s |

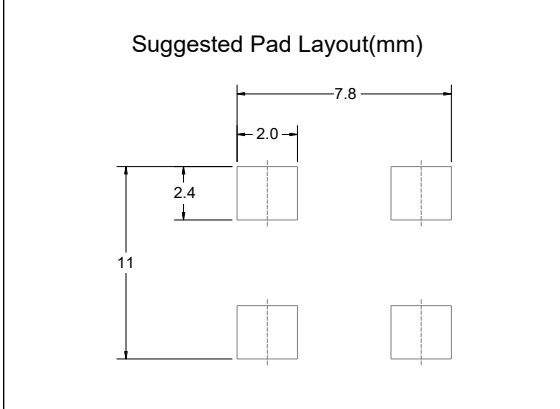


| DIM | INCHES | | MM | | NOTE |
|-----|--------|-------|------|------|------|
| | MIN | MAX | MIN | MAX | |
| A | 0.339 | 0.362 | 8.60 | 9.20 | |
| B | 0.327 | 0.350 | 8.30 | 8.90 | |
| C | 0.244 | 0.260 | 6.20 | 6.60 | |
| D | 0.073 | 0.085 | 1.85 | 2.15 | |
| E | 0.053 | 0.069 | 1.35 | 1.75 | |
| F | 0.004 | 0.012 | 0.10 | 0.30 | |
| G | 0.016 | 0.031 | 0.40 | 0.80 | |
| H | 0.213 | 0.228 | 5.40 | 5.80 | |

Internal Structure

| Simplified Outline | Graphic Symbol |
|---|---|
|  |  |

- Note:
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
 2. High temperature solder exemption applied, see EU directive annex 7a.



Thermal characteristics

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---------------|---|------------|-----|-----|-----|------|
| T_J | Operating Junction Temperature Range | | -55 | | 150 | °C |
| T_{stg} | Storage Temperature Range | | -55 | | 150 | °C |
| $R_{th(J-C)}$ | Thermal Resistance from Junction to Case | Note 1 | | 7 | | °C/W |
| $R_{th(J-L)}$ | Thermal Resistance from Junction to Lead | Note 1 | | 11 | | °C/W |
| $R_{th(J-A)}$ | Thermal Resistance from Junction to Ambient | Note 1 | | 50 | | °C/W |

Note:

1. Device mounted on P.C.B with 35mm*25mm*1.7mm.

Electrical Characteristics @ 25°C Unless Otherwise Specified

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|----------------------|--------|---|-----|-----|----------|---------|
| Forward Voltage | V_F | $I_F=1.5A; T_J=25^\circ C$ | | | 1.0 | V |
| Reverse Current | I_R | at Rated $V_R; T_J=25^\circ C$ at Rated $V_R; T_J=125^\circ C$ | | | 5 100 | μA |
| Junction Capacitance | C_J | $V_R=4V; f=1MHz; T_J=25^\circ C$ | | 34 | | pF |

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

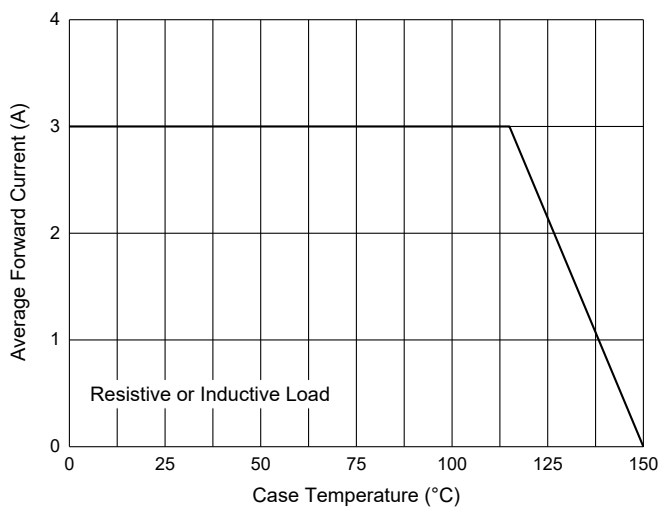


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

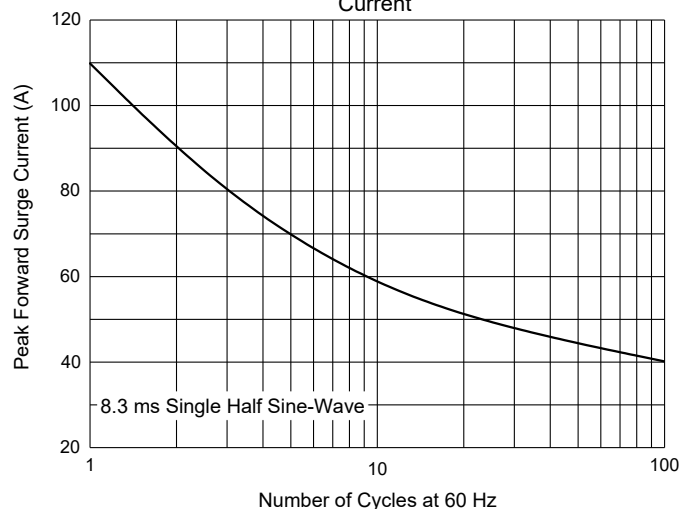


Fig. 3 - Typical Forward Characteristics

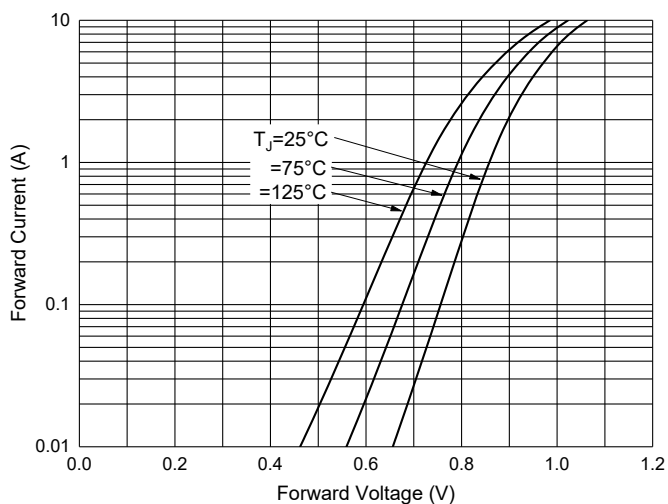


Fig. 4 - Typical Reverse Leakage Characteristics

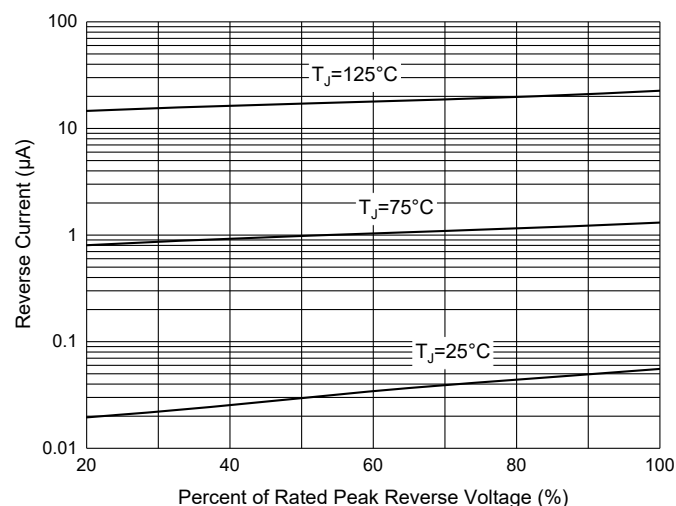
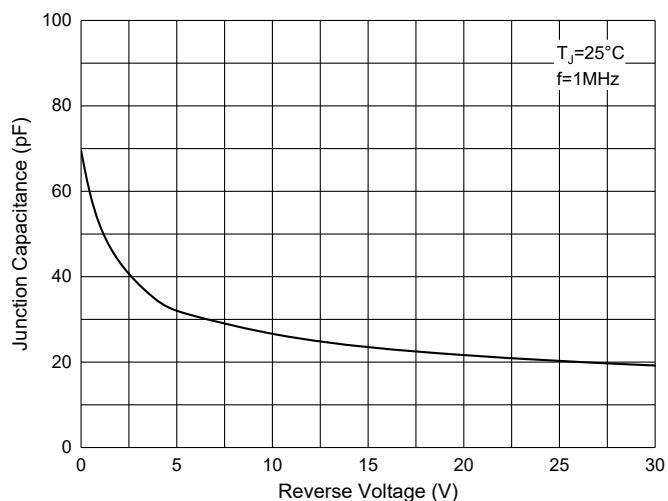


Fig. 5 - Typical Capacitance Characteristics



Ordering Information

| Device | Packing |
|----------------|------------------------|
| Part Number-TP | Tape&Reel:2.5Kpcs/Reel |

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