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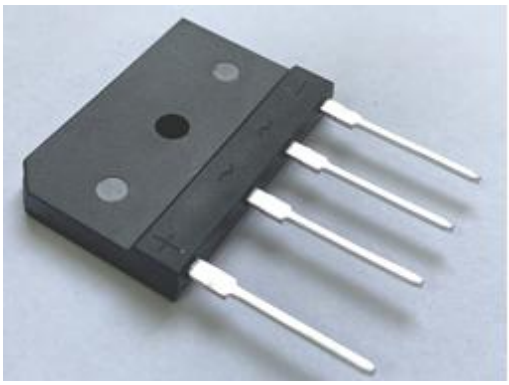
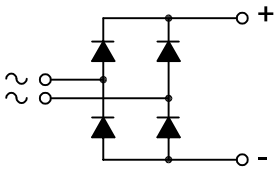
# MMS50.06SIP

## 1PH POWER RECTIFIER BRIDGE 50A 600V



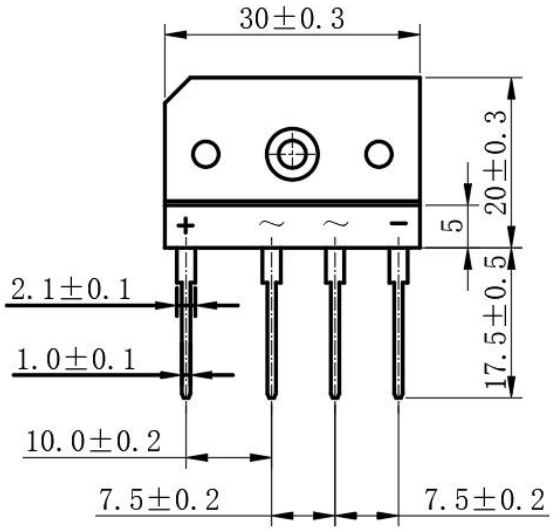


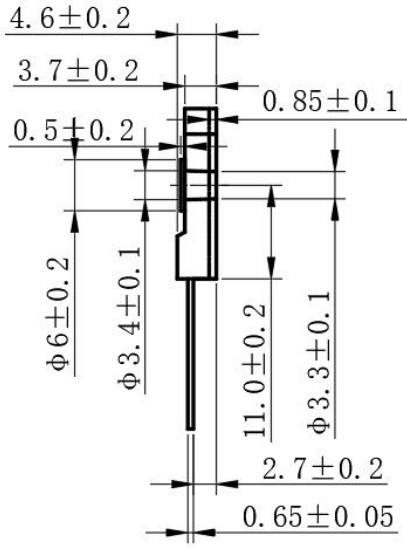

### Features

- Glass passivated die construction
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guarantee 265℃ /10 seconds, 0.375" (9.5mm) le length, 5lbs. (2.3kg) tension

### Mechanical Data

**Case:** Molded plastic case
**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026
**Polarity:** Marked on Body
**Mounting Position:** Any




### Maximum Ratings and Thermal Characteristics (TA = 25℃ unless otherwise noted)

| Symbol | Conditions | Values | Units |
|---|---|---|---|
| $I_{(AV)}$ | Maximum average forward output rectified current Tc =100℃ | 50 | A |
| $I_{FSM}$ | Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method) | 500 | A |
| $I^2t$ | Rating for fusing (t<10ms) | 1250 | $A^2s$ |
| Visol | a.c.50HZ;r.m.s.;1min | 2500 | V |
| $R_{\theta JC}$ | Maximum thermal resistance per leg (1) | 1.5 | ℃/W |
| TOR | Mounting Torque (Recommended torque:0.5 N.m) | 0.8 | N.m |
| $T_j$, $T_{STG}$ | Operating Junction and storage temperature range | -55 to +150 | ℃ |
| Weight | Approximate Weight | 7 | g |

### Electrical Characteristics (TA = 25℃ unless otherwise noted)

| Symbol | Conditions | Values | Units |
|---|---|---|---|
| $V_F$ | Maximum Instantaneous Forward Voltage per leg $I_{FM}$ =25A | 1.1 | V |
| $I_R$ | Maximum DC reverse current at rated $T_A$ = 25℃<br>DC blocking voltage per leg $T_A$ = 125℃ | 5.0<br>500 | μA |

Notes: (1) Junction to case with heatsink
(2) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

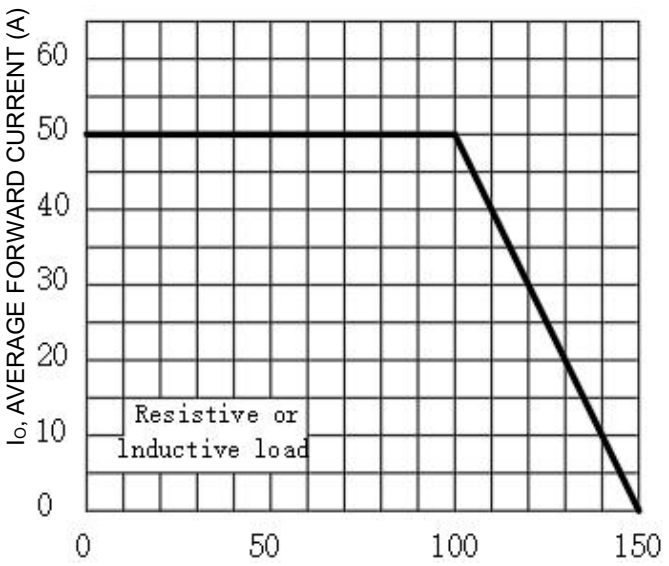



Fig.1 Forward Current Derating Curve

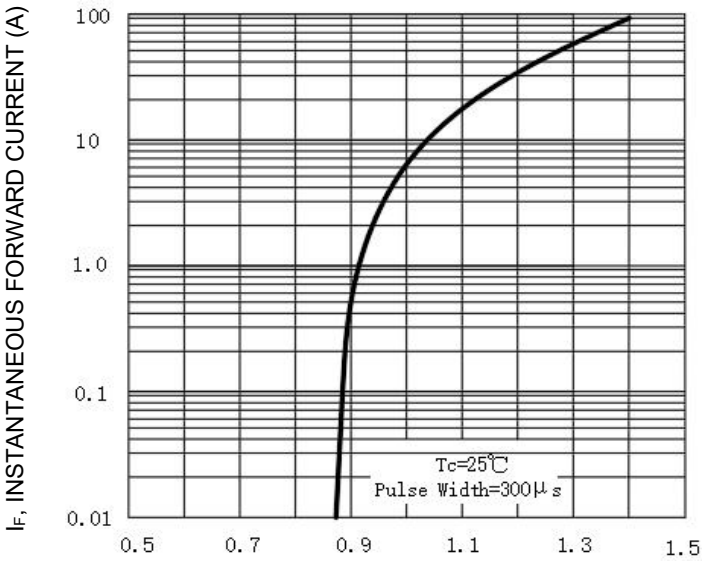



Fig.2 Typical Forward Characteristics, per element

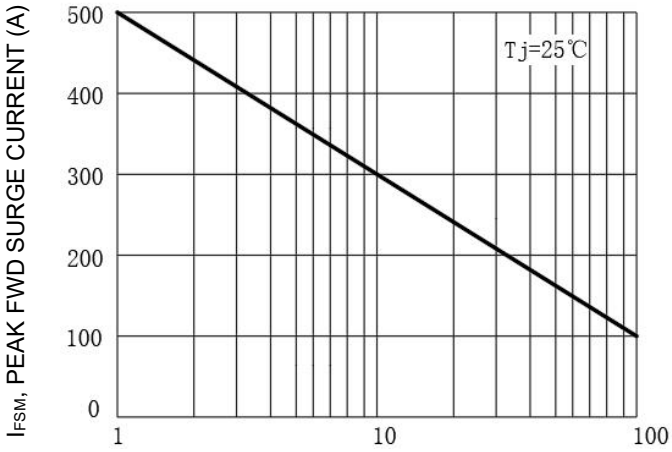



Fig.3 Max Non-Repetitive Surge Current

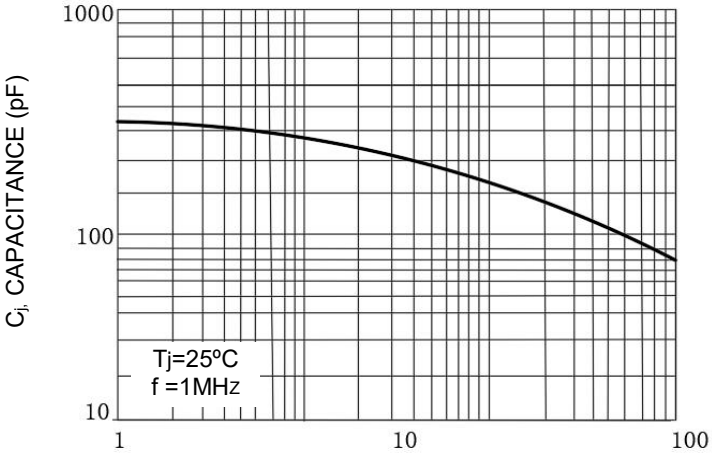



Fig.4 Typical Junction Capacitance per Element

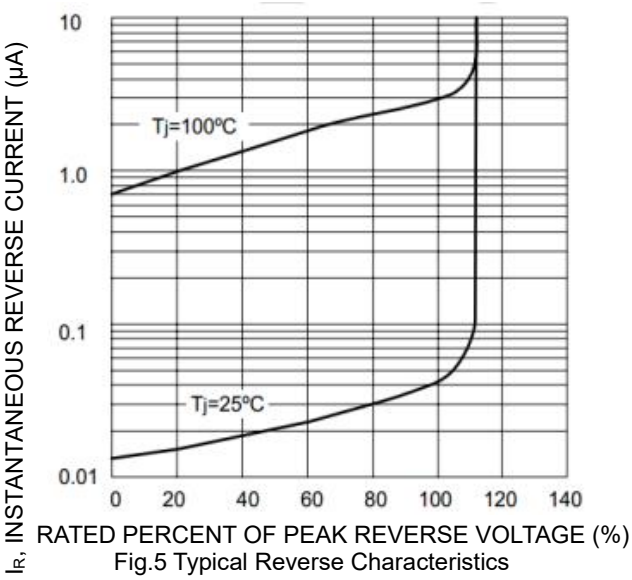



Fig.5 Typical Reverse Characteristics





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