

S2MF

2.0AMPS. GLASS PASSIVATED SURFACE MOUNT RECTIFIERS

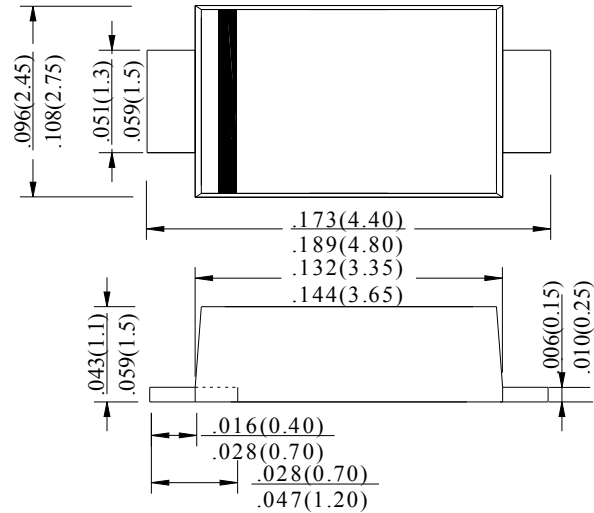
FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High temperature soldering guaranteed:
260°C/10 seconds at terminals.
- . For surface mounted application
- . Easy pick and place

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity:Color band denotes cathode end
- . Packaging: 12mm tape per EIA STD RS-481
- . Mounting position: Any

SMF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| Type Number | SYM BOL | S2MF | units |
|---|-------------|--------------|---------------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 700 | V |
| Maximum DC blocking Voltage | V_{DC} | 1000 | V |
| Maximum Average Forward Rectified Current at $T_A = 55^\circ\text{C}$ | $I_{F(AV)}$ | 2.0 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 60.0 | A |
| Maximum Forward Voltage at 2.0A DC | V_F | 1.0 | V |
| Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at rated DC blocking voltage @ $T_A = 125^\circ\text{C}$ | I_R | 5.0 100.0 | μA |
| I^2t Rating for Fusing ($t < 8.3\text{ms}$) | I^2t | 14.94 | A^2Sec |
| Typical Junction Capacitance (Note1) | C_j | 30 | pF |
| Typical Thermal Resistance (Note 2) | $R_{(JA)}$ | 50 | $^\circ\text{C}/\text{W}$ |
| Storage Temperature | T_{STG} | -55 to +150 | $^\circ\text{C}$ |
| Operation Junction Temperature | T_J | -55 to +150 | $^\circ\text{C}$ |

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
2. Measured on P.C.Board with $0.6 \times 0.6''$ ($15.0 \times 15.0\text{mm}$) Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES (S2MF)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

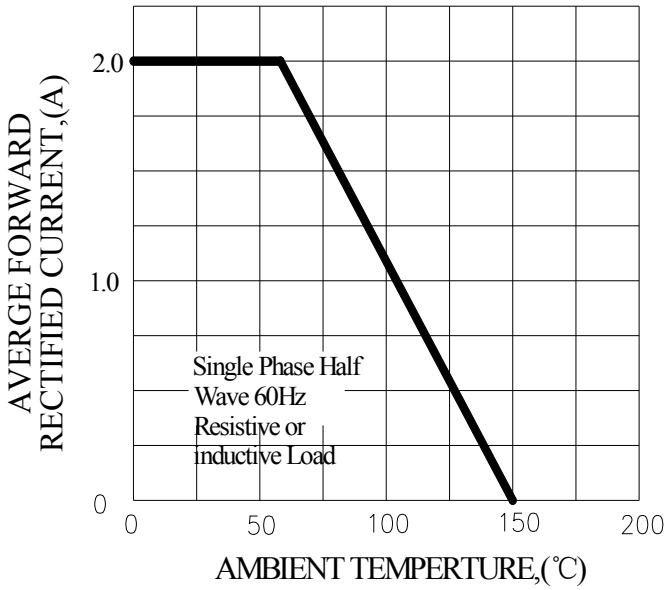


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

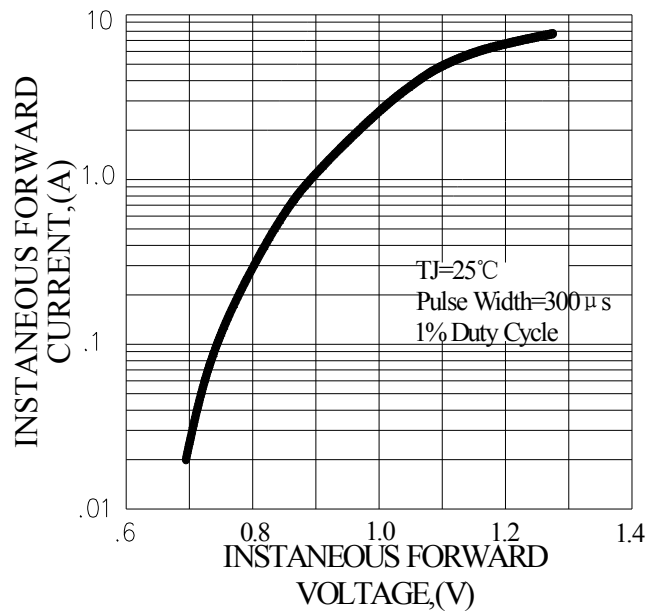


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

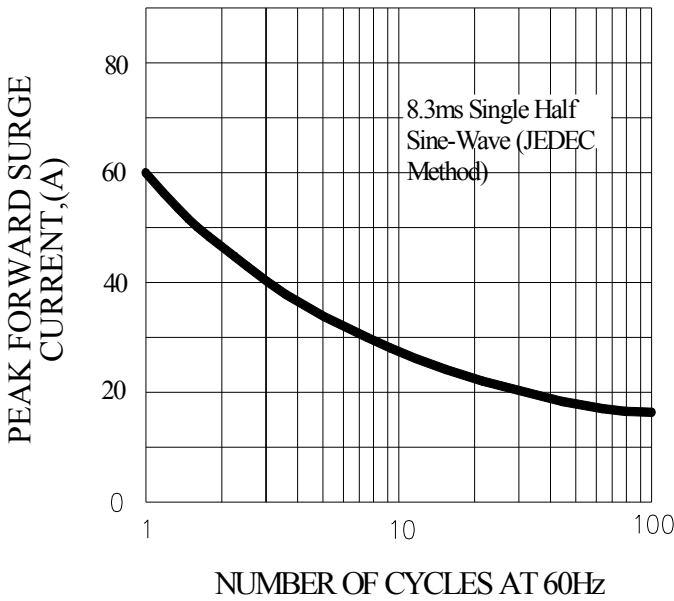
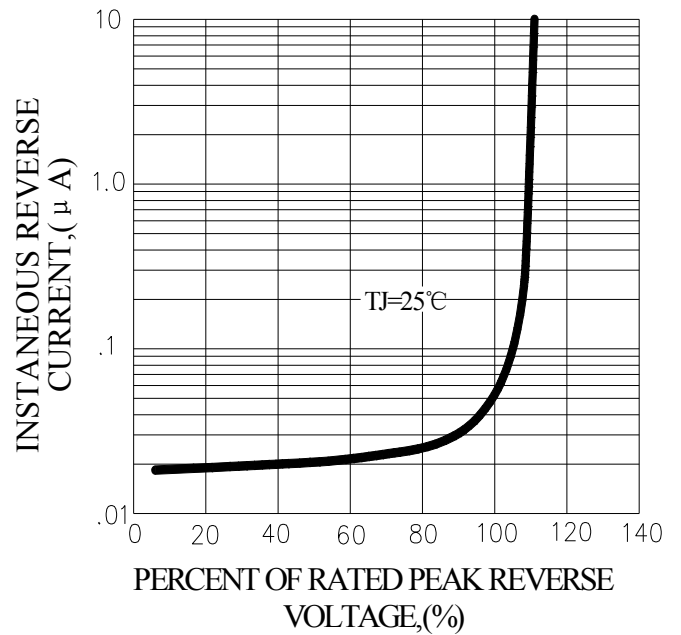


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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