# S2MF

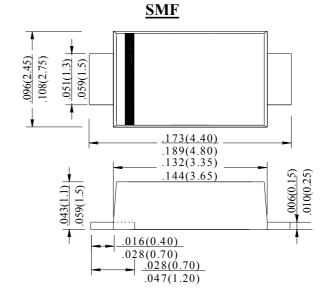
## 2.0AMPS. GLASS PASSIVATED SURFACE MOUNT RECTIFIERS

#### **FEATURE**

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High temperature soldering guaranteed:  $260^{\circ}\text{C}/10$  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



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.

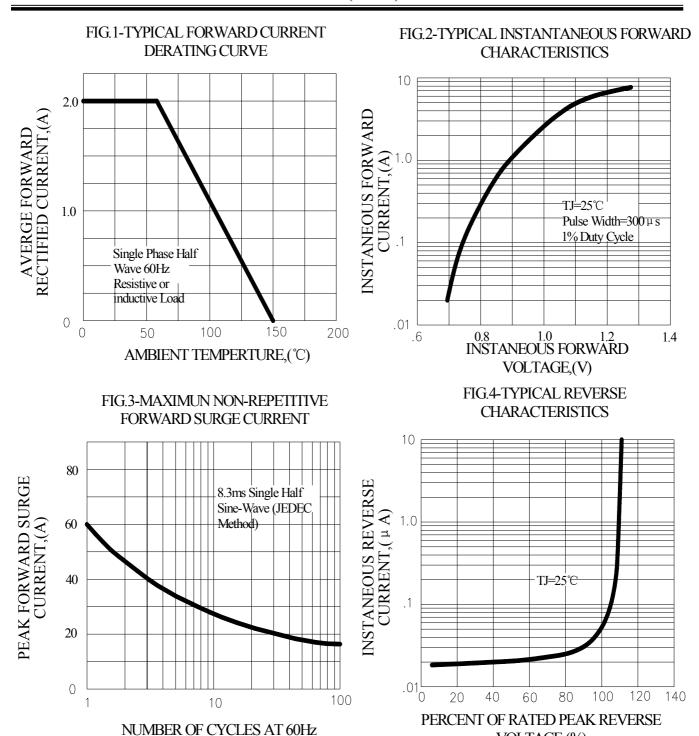
For capacitive load, derate current by 20%

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

## Note:

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 2. Measured on P.C.Board with 0.6×0.6"(15.0×15.0mm)Copper Pad Areas.

## RATING AND CHARACTERISTIC CURVES (S2MF)



VOLTAGE,(%)