

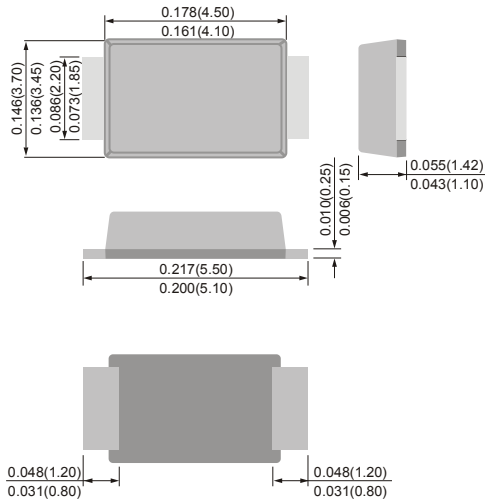
# S2AF~S2MF

## SURFACE MOUNT RECTIFIER

**VOLTAGE** 50 to 1000 Volts    **CURRENT** 2.0 Amperes

SMBF

Unit : inch(mm)



### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Glass passivated junction
- Both normal and Pb free product are available :
  - Normal : 80~95% Sn, 5~20% Pb
  - Pb free: 98.5% Sn above

### MECHANICAL DATA

Case: JEDEC SMBF molded plastic  
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026  
 Polarity: Indicated by cathode band  
 Standard packaging: 12mm tape (EIA-481)

### 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%.

PARAMETER	SYMBOL	S2AF	S2BF	S2DF	S2GF	S2JF	S2KF	S2MF	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at $T_L=100\text{ }^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	60							A
Maximum Forward Voltage at 2.0A	$V_F$	1.1							V
Maximum DC Reverse Current at $T_J=25\text{ }^\circ\text{C}$ Rated DC Blocking Voltage $T_J=125\text{ }^\circ\text{C}$	$I_R$	5.0 125							$\mu\text{A}$
Typical Junction capacitance (Note 1)	$C_J$	30							pF
Typical Junction Resistance(Note 2)	$R_{\theta JL}$	16							$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 TO +150							$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHZ and applied  $V_r=4.0$  volts.
2.  $8.0\text{mm}^2$  (.013mm thick) land areas.

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## RATING AND CHARACTERISTIC CURVES

