S2XF SERIES

SURFACE MOUNT GENERAL PURPOSE RECTIFIERS

产品规格确认书

S2AF THRU S2MF

SURFACE MOUNT GENERAL PURPOSE RECTIFIERS

康 比 電 子
HORNBY ELECTRONIC

REVERSE VOLTAGE: **50 to 1000 VOLTS**

FORWARD CURRENT: **2.0 AMPERE**

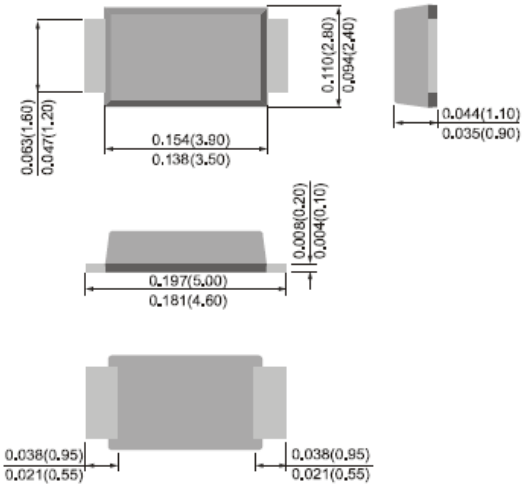
FEATURES

· Plastic package has Underwriters Laboratory Flammability Classification 94V-O
· For surface mounted applications
· Low profile package
· Easy pick and place
· Built-in strain relief
· Low forward voltage drop
· High temperature soldering : 250°C /10 seconds at terminals

MECHANICAL DATA

Case: Molded plastic, SMAF
Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed
Polarity: Color band denotes cathode end
Packaging: 12mm tape per EIA STD RS-481

SMAF



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	S2AF	S2BF	S2DF	S2GF	S2JF	S2KF	S2MF	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	**Volts**
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	**Volts**
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	**Volts**
Maximum Average Forward Rectified Current	$I_{(AV)}$	2.0							**Amp**
Peak Forward Surge Current,8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							**Amp**
Maximum Forward Voltage at 2.0A	V_F	1.1							**Volts**
Maximum Reverse Current at Rated DC Blocking Voltage at T_A=25℃	I_R	5.0							**μAmp**
T_A=125℃		100							
Typical Junction Capacitance (Note 1)	C_J	22							**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	65							**℃/W**
Operating Junction Temperature Range	T_J	-55 to +150							**℃**
Storage Temperature Range	Tstg	-55 to +150							**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal resistance from junction to ambient mounted on P.C.B. with 5.0 x 5.0mm copper pad areas

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

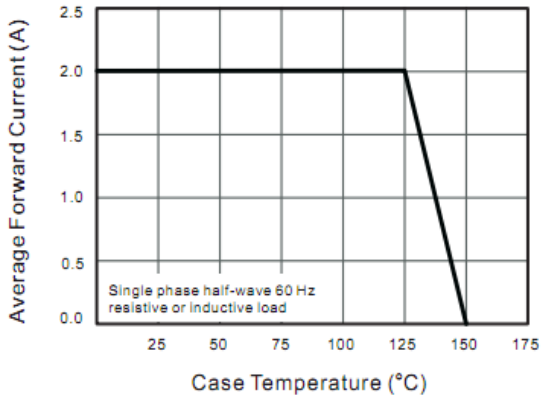

Fig.2 Typical Instaneous Reverse Characteristics

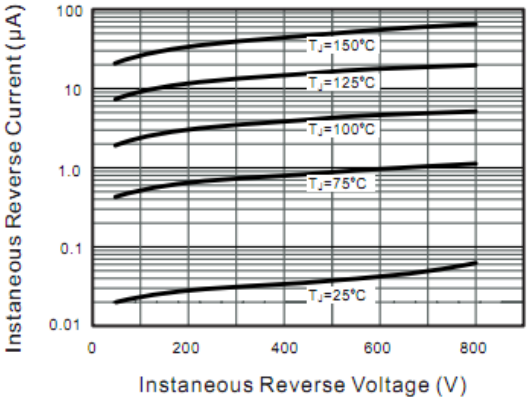

Fig.3 Typical Forward Characteristic

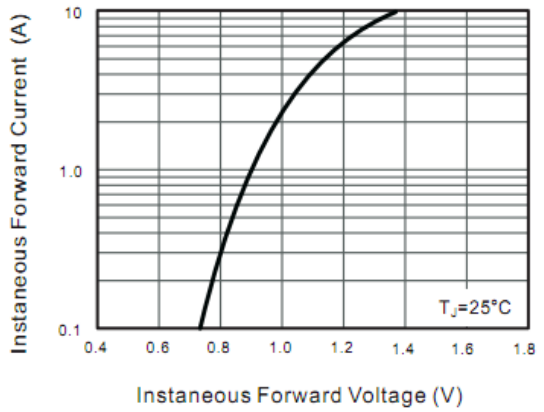

Fig.4 Typical Junction Capacitance

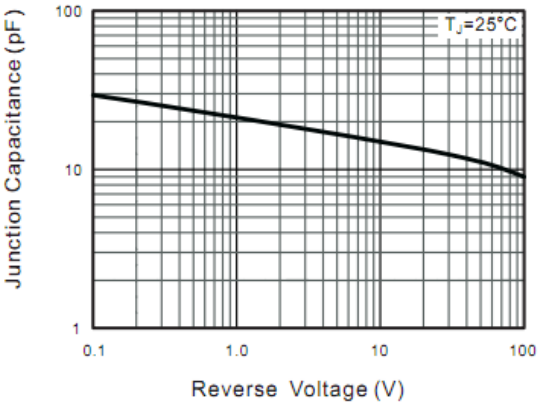

Fig.5 Maximum Non-Repetitive Peak Forward Surage Current