SS5XF SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

产品规格确认书

SS52F THRU SS520F

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

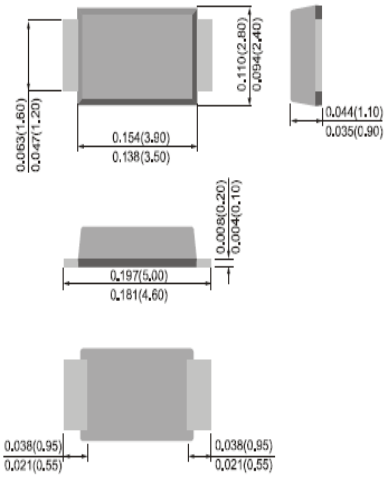
REVERSE VOLTAGE: **20 to 200 VOLTS**

FORWARD CURRENT: **5.0 AMPERE**

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- High current capacity
- Built-in strain relief
- Low profile package
- Metal to silicon rectifier. majority carrier conduction
- High surge capacity
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering : 250°C /10 seconds at terminals

SMAF



Dimensions in inches and (millimeters)

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

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	*SS52F*	*SS54F*	*SS56F*	*SS58F*	*SS510F*	*SS515F*	*SS520F*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	150	200	**Volts**
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	105	140	**Volts**
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	150	200	**Volts**
Maximum Average Forward Rectified Current See Fig. 1	$I_{(AV)}$	5.0							**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	100							**Amp**
Maximum Forward Voltage at 5.0A (Note 1)	V_F	0.55		0.70	0.85		0.95		**Volts**
Maximum Reverse Current at T_A=25℃	I_R	0.5							**mAmp**
at Rated DC Blocking Voltage T_A=100℃		50							
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60							℃/W
Operating Junction Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	Tstg	-55 to +150							℃

NOTES:

1- Pulse test: 300μs pulse width, 1% duty cycle

2- P.C.B. mounted with 2 x 2" (5 x 5mm) Copper Pad Areas

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

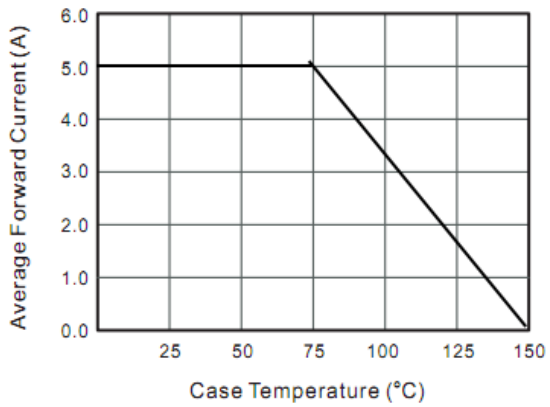


Fig.2 Typical Reverse Characteristics

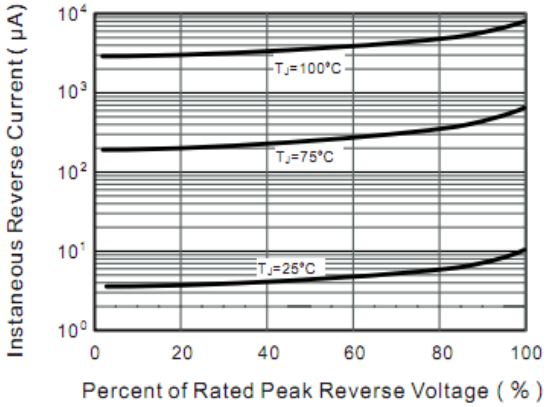


Fig.3 Typical Forward Characteristic

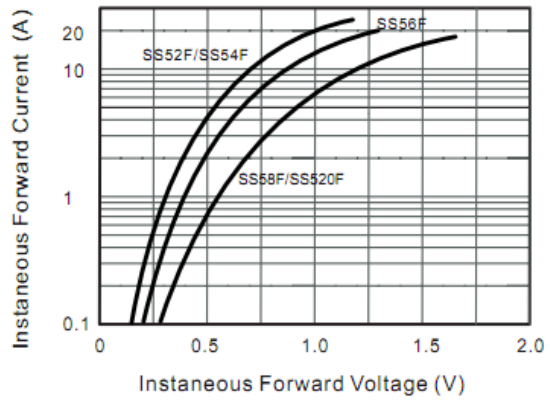


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current

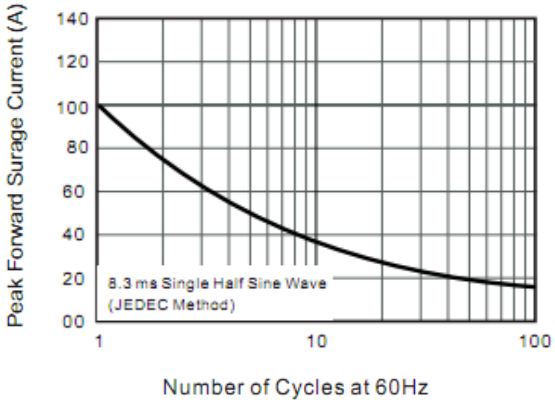


Fig.5- Typical Transient Thermal Impedance

