SS1XW SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

产品规格确认书

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SS12W THRU S100W

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

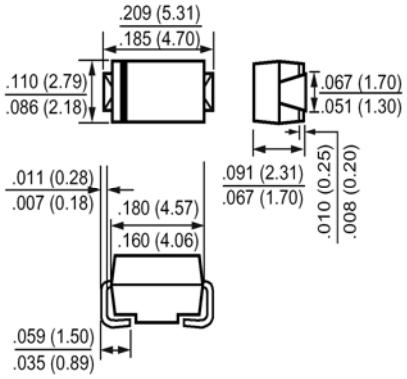
REVERSE VOLTAGE: **20 to 100 VOLTS**

FORWARD CURRENT: **1.0 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

SMX



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, SMX

Terminals: Axial leads, solderable per MIL-STD-750, method 2026 guaranteed

Polarity: Color band denotes cathode end

Packaging: 12mm tape per EIA STD RS-481

Weight: 0.002 ounce, 0.064 gram

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	*SS12W*	*SS13W*	*SS14W*	*SS15W*	*SS16W*	*SS18W*	*SS19W*	*S100W*	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	**Volts**
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	**Volts**
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	**Volts**
Maximum Average Forward Rectified Current at T_L (See Fig. 1)	$I_{(AV)}$	1.0								**Amp**
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30								**Amp**
Maximum Forward Voltage at 1.0A (Note 1)	V_F	0.50			0.70		0.85			**Volts**
Maximum Reverse Current at T_A=25℃	I_R	0.5								**mAmp**
at Rated DC Blocking Voltage T_A=100℃		20								
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	88								℃/W
	$R_{\theta JL}$	28								
Operating Junction Temperature Range	T_J	-55 to +125								℃
Storage Temperature Range	Tstg	-55 to +150								℃

NOTES:

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

2- P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas

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RATINGS AND CHARACTERISTIC CURVES

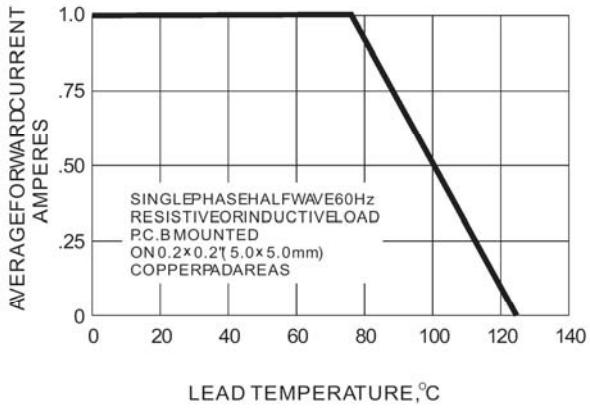


Fig.1-FORWARD CURRENT DERATING CURVE

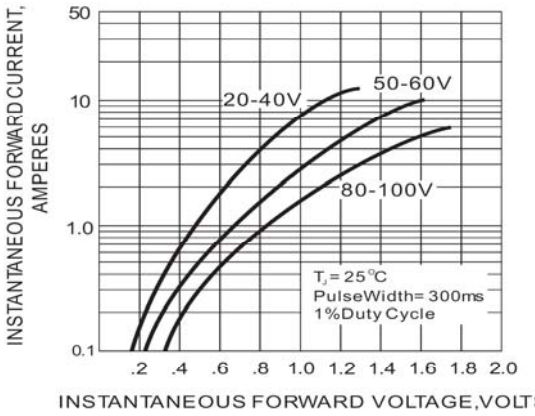


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

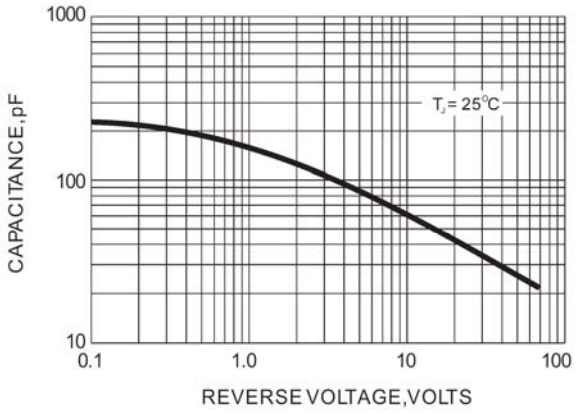


Fig.3-TYPICAL JUNCTION CAPACITANCE

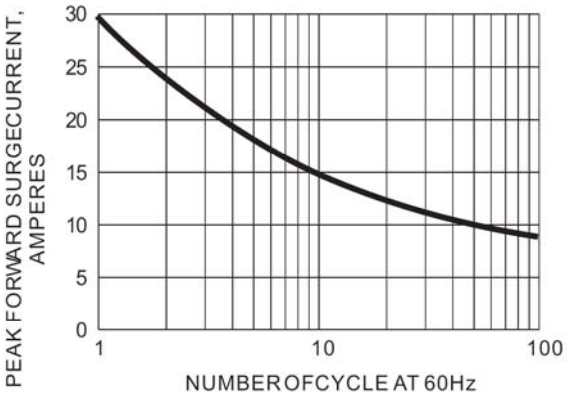


Fig.4-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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