

SR22W SERIES

SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20~60 Volts **CURRENT** 2 Amperes

SMA(W)

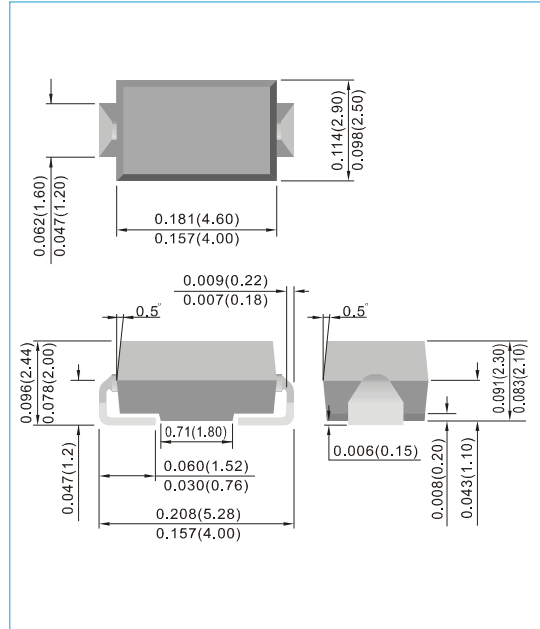
Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SMA(W) molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.002 ounce, 0.067 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

PARAMETER	SYMBOL	SR22W	SR23W	SR24W	SR26W	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	60	V
Maximum Average Forward Current (see Fig.4)	I _{F(AV)}	2.0				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50				A
Maximum Forward Voltage at 2.0A (Note 1)	V _F	0.5			0.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J =100°C	I _R	0.5 20			0.1 20	mA
Typical Thermal Resistance (Note 2)	R _{θJL} R _{θJA}	25 100				°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +125		-55 to +150		°C

NOTES:

1. Pulse Test with PW =300μsec, 1% Duty Cycle.
2. Mounted on PCB 6x5mm copper pad areas.

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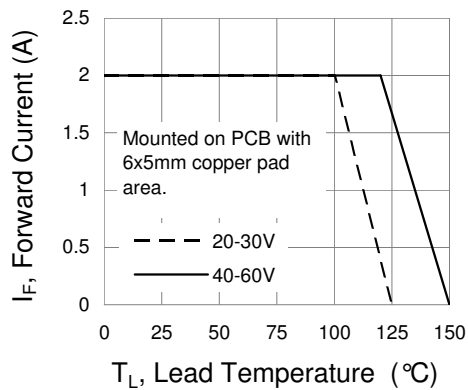


Fig.1 Forward Current Derating Curve

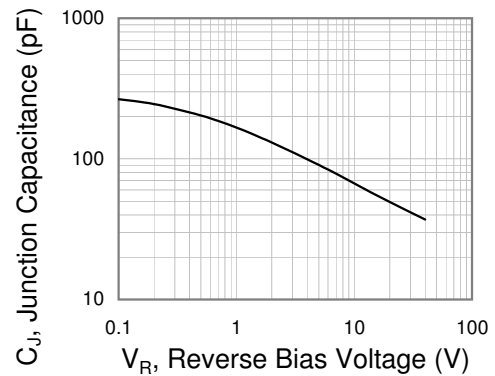


Fig.2 Typical Junction Capacitance

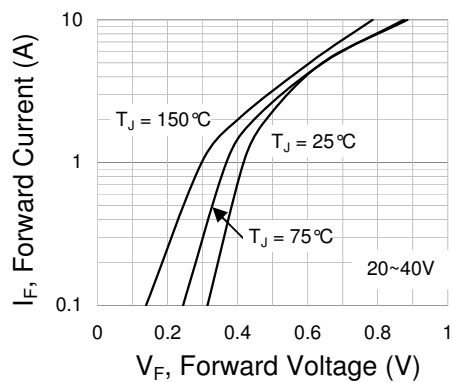


Fig.3 Typical Forward Characteristics

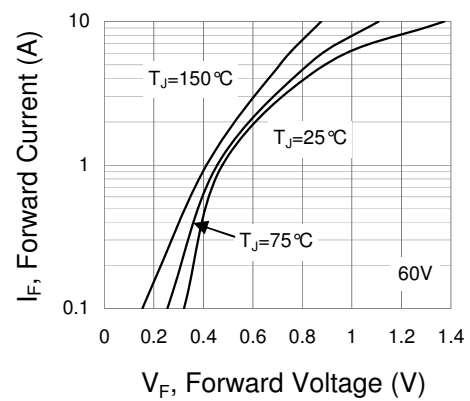


Fig.4 Typical Forward Characteristics

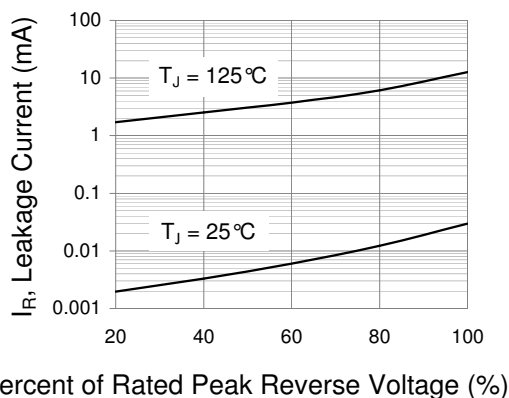
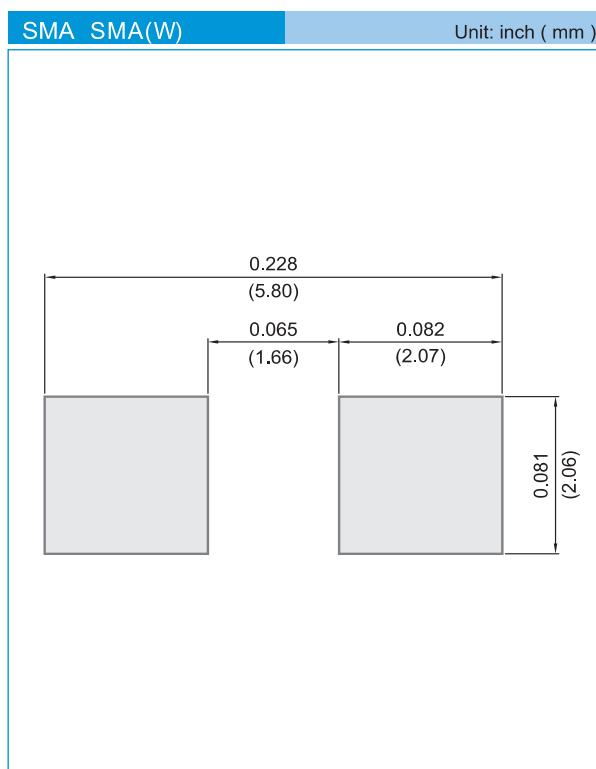


Fig.5 Typical Reverse Characteristics

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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 7.5K per 13" plastic Reel
 - T/R - 1.8Kper 7" plastic Reel

LEGAL STATEMENT

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