

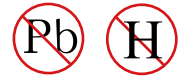


DATA SHEET

SEMICONDUCTOR

SR22-A THRU SR210-A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

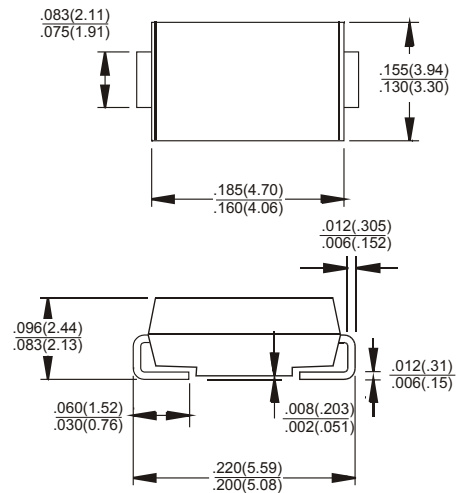


VOLTAGE- 20 to 100 Volts CURRENT- 2.0 Amperes

FEATURES

SMB/DO-214AA Unit:inch(mm)

- 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
- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request
- AEC-Q101 qualified



MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Base P/N - RoHS compliant, commercial grade
- Base P/N-A - RoHS compliant, AEC-Q101 qualified
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.003 ounce, 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	SR22	SR23	SR24	SR25	SR26	SR28	SR29	SR210	UNITS
Marking code		SR22	SR23	SR24	SR25	SR26	SR28	SR29	SR210	
Maximum Recurrent Peak Reverse Voltage	VRRM	20.0	30.0	40.0	50.0	60.0	80.0	90.0	100.0	V
Maximum RMS Voltage	VRMS	14.0	21.0	28.0	35.0	42.0	56.0	63.0	70.0	V
Maximum DC Blocking Voltage	VDC	20.0	30.0	40.0	50.0	60.0	80.0	90.0	100.0	V
Maximum Average Forward Rectified Current at TL (See figure 1)	I(AV)	2.0								A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50.0								A
Maximum Instantaneous Forward Voltage at 2.0A (Note 1)	VF	0.50		0.70			0.85			V
Maximum DC Reverse Current (Note 1) Ta= 25°C at Rated DC Blocking Voltage Ta=100°C	IR	0.5				20.0				mA
Maximum Thermal Resistance(Note 2)	RθJL RθJA	17.0				75.0				°C/W
Operating Temperature Range	TJ	-55 to +150								°C
Storage Temperature Range	TSTG	-55 to +150								°C

NOTES:

- A.Pulse Test with PW =300µsec, 2% Duty Cycle.
- B.Mounted on P.C. Board with 8.0mm2 (.013mm thick) copper pad areas.

DEVICE CHARACTERISTICS

SR22-A THRU SR210-A

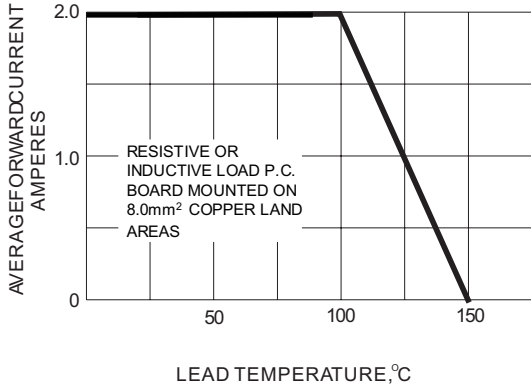


Fig. 1-FORWARD CURRENT DERATING CURVE
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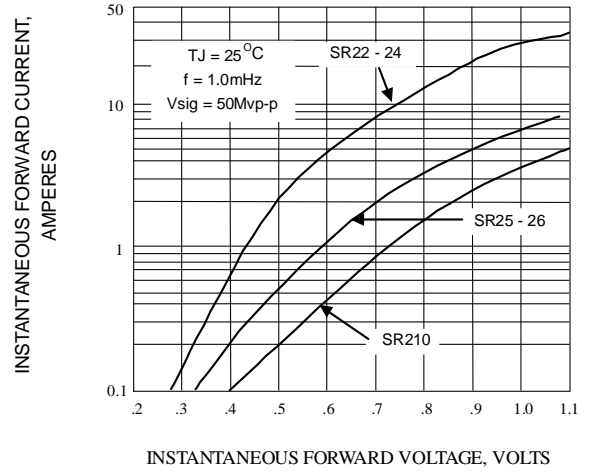


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

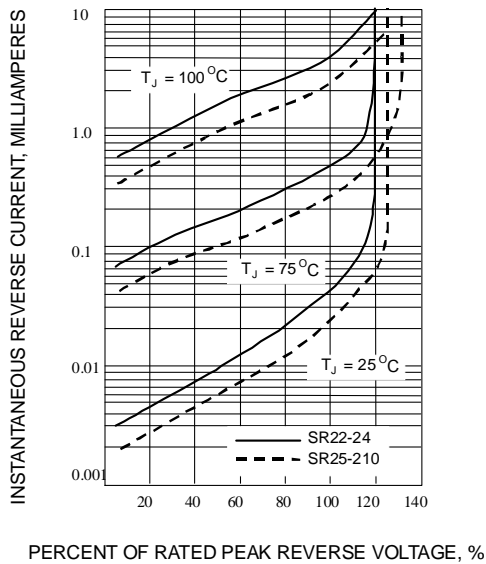


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

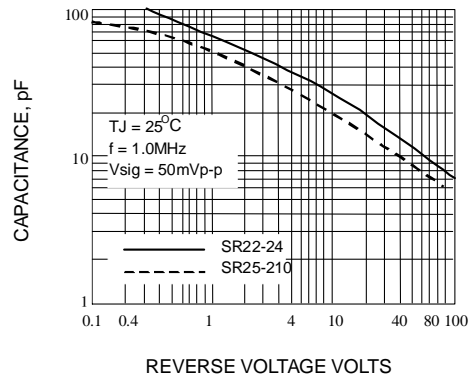


Fig. 4-TYPICAL JUNCTION CAPACITANCE

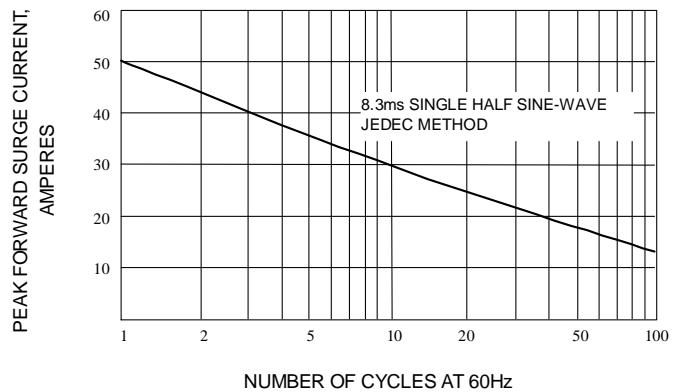


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT