YEA SHIN TECHNOLOGY CO., LTD

SR22 THRU SR210

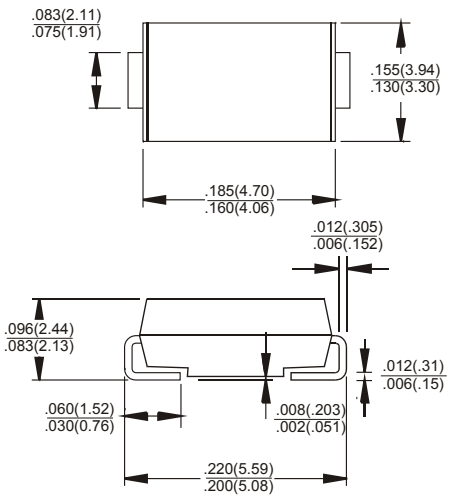
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE- 20 to 100 Volts CURRENT- 2.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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 guaranteed: 260°C /10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request

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



MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- 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	V_{RRM}	20.0	30.0	40.0	50.0	60.0	80.0	90.0	100.0	V
Maximum RMS Voltage	V_{RMS}	14.0	21.0	28.0	35.0	42.0	56.0	63.0	70.0	V
Maximum DC Blocking Voltage	V_{DC}	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)	I_{FSM}	50.0								A
Maximum Instantaneous Forward Voltage at 2.0A (Note 1)	V_F	0.50			0.70		0.85			V
Maximum DC Reverse Current (Note 1) Ta= 25°C at Rated DC Blocking Voltage Ta=100°C	I_R	0.5 20.0								mA
Maximum Thermal Resistance(Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	17.0 75.0								°C/W
Operating Temperature Range	T_J	-55 to +150								°C
Storage Temperature Range	T_{STG}	-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

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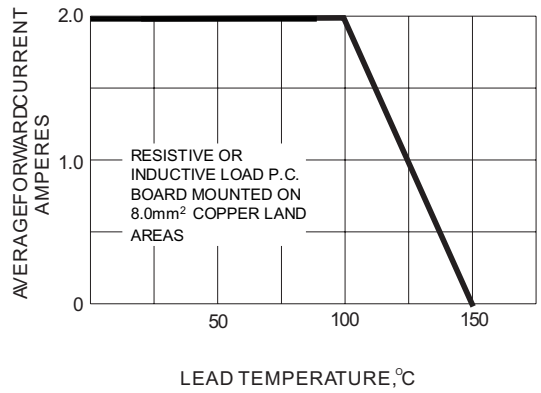

Fig.1-FORWARD CURRENTDERATING CURVE

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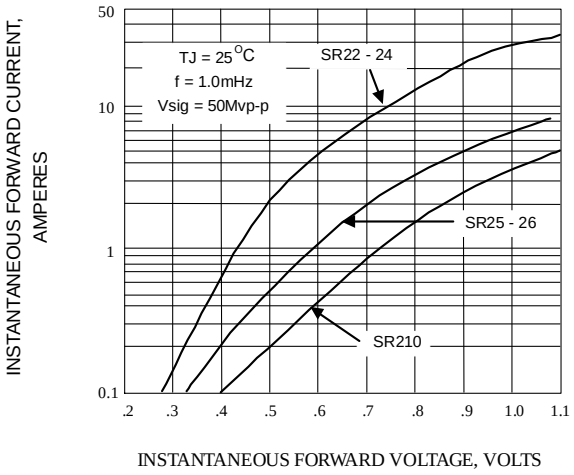

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

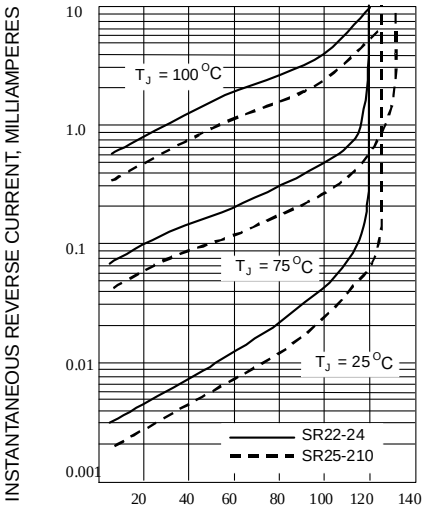

Fig. 3-TYPICAL REVERSE CHARACTERISTICS

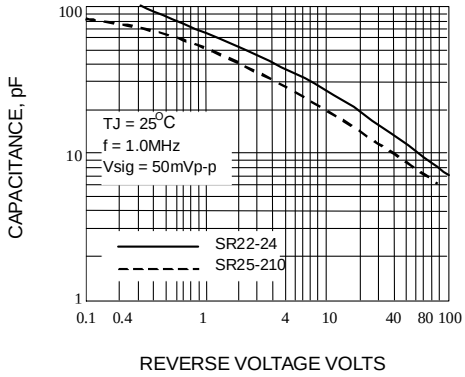

Fig. 4-TYPICAL JUNCTION CAPACITANCE

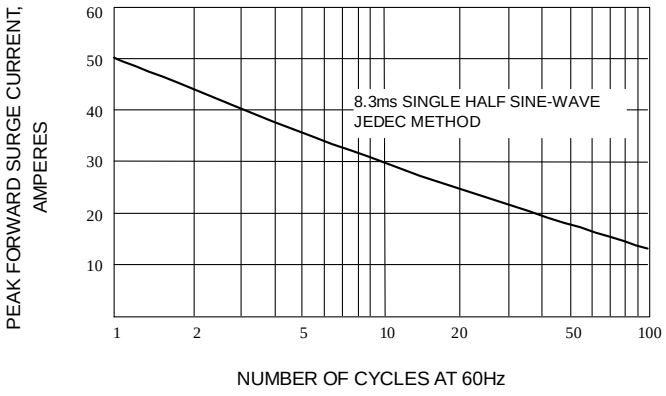

Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT