SR22 THRU SR29

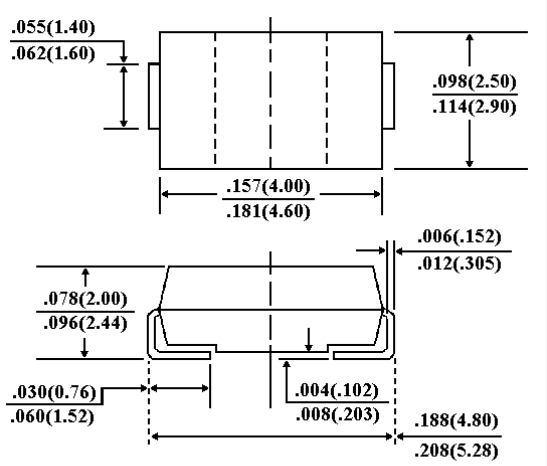
MINI SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE - 20 to 90 Volts CURRENT - 2.0 Amperes

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 current capability, low V_F
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260 ¢J/10 seconds at terminals

SMA/DO-214AC



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode

Standard packaging: 12mm tape (EIA-481)

Weight: 0.002 ounce, 0.064 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Resistive or inductive load.

	SYMBOLS	SR22	SR23	SR24	SR25	SR26	SR28	SR29	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	64	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	Volts
Maximum Average Forward Rectified Current at T_L (See Figure 1)	$I_{(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	50.0							Amps
Maximum Instantaneous Forward Voltage at 2.0A (Note 1)	V_F	0.5			0.70		0.85		Volts
Maximum DC Reverse Current T_A=25 ¢J(Note 1) At Rated DC Blocking Voltage T_A=100 ¢J	I_R	0.5 20.0							mA
Maximum Thermal Resistance (Note 2)	R £KJL R £KJA	17 75							¢J/W
Operating Junction Temperature Range	T_J	-50 to +125							¢J
Storage Temperature Range	T_{STG}	-50 to +150							¢J

NOTES:

1. Pulse Test with PW=300 £g sec, 2% Duty Cycle.
2. Mounted on P.C.Board with 8.0mm^2 (.013mm thick) copper pad areas.

RATING AND CHARACTERISTIC CURVES

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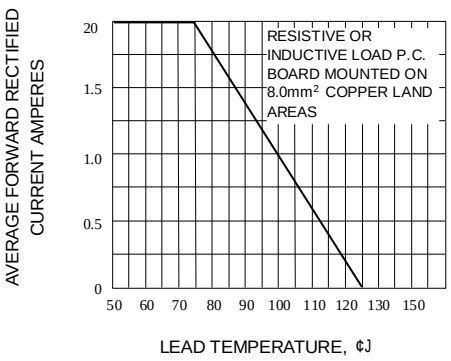

Fig. 1-FORWARD CURRENT DERATING CURVE

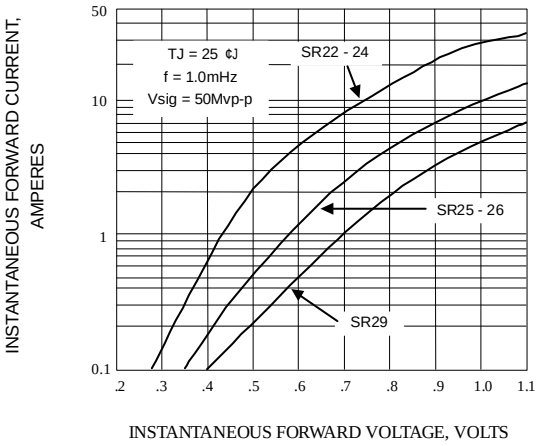

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

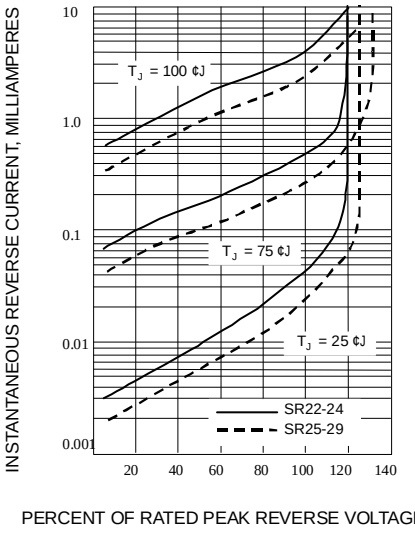

Fig. 3-TYPICAL REVERSE CHARACTERISTICS

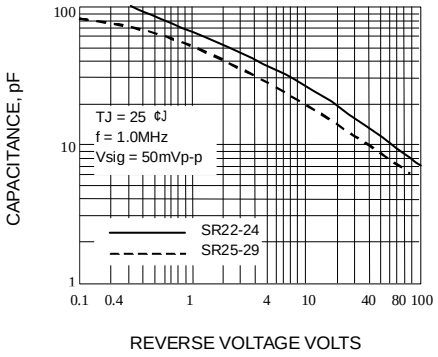

Fig. 4-TYPICAL JUNCTION CAPACITANCE

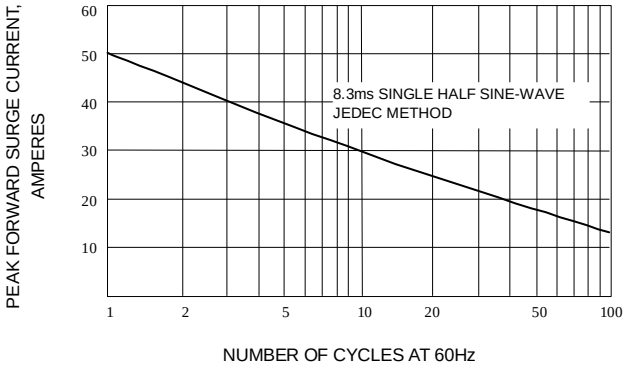

Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT