



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 °C/10 seconds at terminals

MECHANICAL DATA

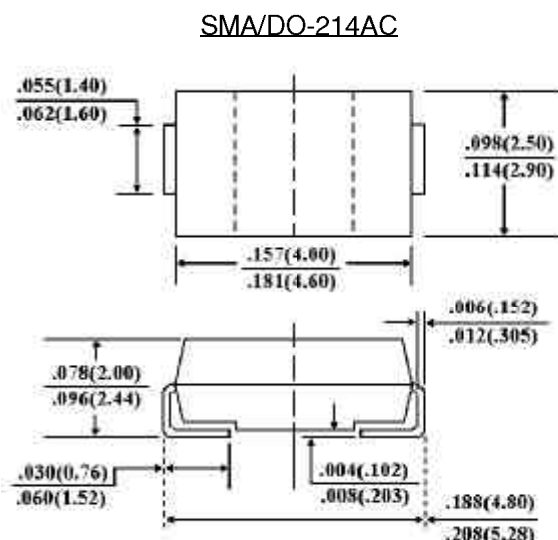
Case: JEDEC DO-214AC molded plastic

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



Dimensions in inches and (millimeters)

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	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_J (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 $T_A=25\text{ }^{\circ}\text{C}$ (Note 1) At Rated DC Blocking Voltage $T_A=100\text{ }^{\circ}\text{C}$	I_R	0.5 20.0							mA
Maximum Thermal Resistance (Note 2)	$R_{\theta KJL}$ $R_{\theta KJA}$	17 75							$^{\circ}\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-50 to +125							$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-50 to +150							$^{\circ}\text{C}$

NOTES:

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

RATING AND CHARACTERISTIC CURVES
SR22 THRU SR29

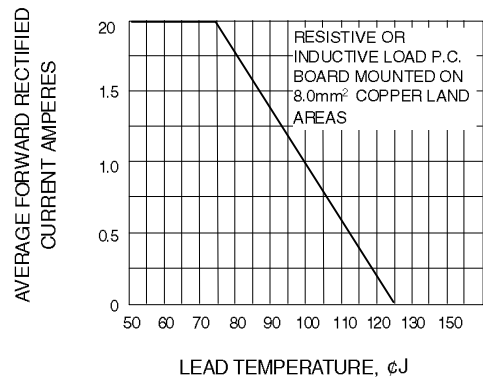


Fig. 1-FORWARD CURRENT DERATING CURVE

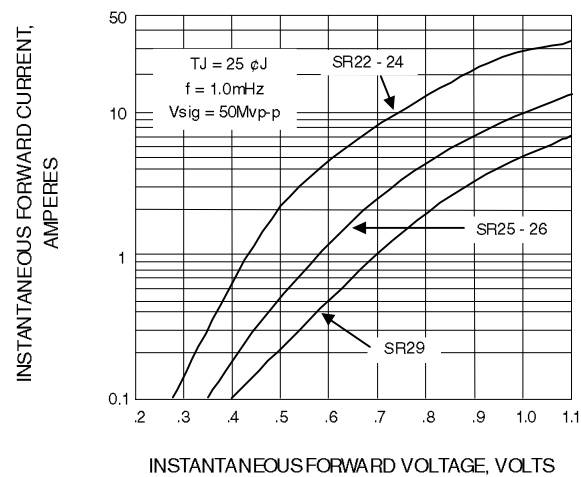


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

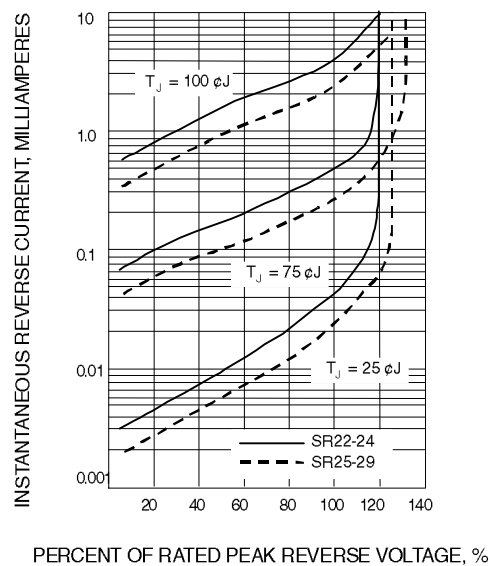


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

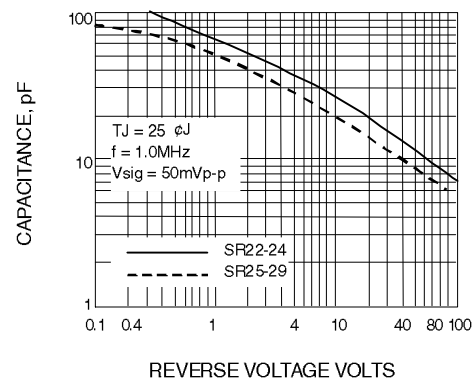


Fig. 4-TYPICAL JUNCTION CAPACITANCE

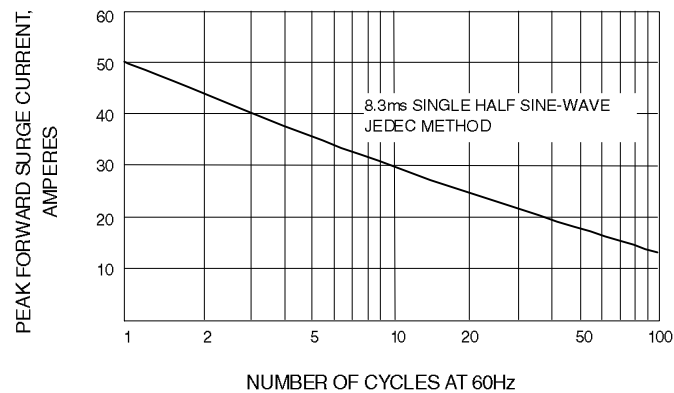


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT