



SCHOTTKY BARRIER RECTIFIER

SS22 THRU SS210

VOLTAGE RANGE
CURRENT

20 to 100 Volts
2.0 Ampere

FEATURES

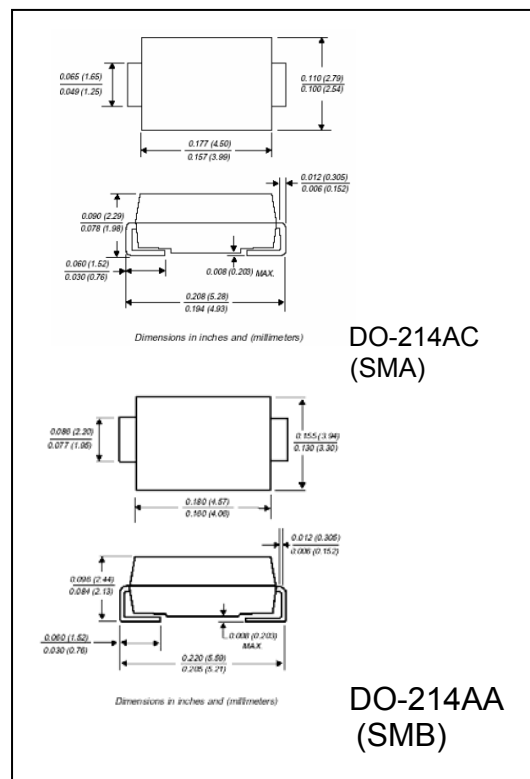
- Low profile surface mount package
- Built in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, free willing, and polarity protection applications
- Guardring for overvoltage protection
- For SMA package use suffix “A”, i.e SS22A
For SMB package use suffix “B”, i.e SS22B

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounce, 0.064 gram – DO-214AC (SMA)
0.003 ounce, 0.093 gram – DO-214AA (SMB)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%



	SYMBOLS	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS210A	UNIT
		SS22B	SS23B	SS24B	SS25B	SS26B	SS28B	SS29B	SS210B	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current, At T_A 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								Amps
Maximum Instantaneous Forward Voltage @ 2.0A (Note 1)	V_F	0.55		0.75		0.85			Volts	
Maximum DC Reverse Current at Rated $T_A = 25^\circ C$	I_R	0.5								mA
DC Blocking Voltage per element $T_A = 100^\circ C$		10.0								
Typical Thermal Resistance (Note 2)	R_{0JA}	88 (SMA) 75 (SMB)								$^\circ C/W$
	R_{0JL}	28 (SMA) 17 (SMB)								
Operating Junction Temperature	T_J	(-55 TO +150)								$^\circ C$
Storage Temperature Rang	T_{STG}	(-55 TO +150)								$^\circ C$

Notes:

1. Pulse test: 300µS pulse width, 1% duty cycle
2. PCB mounted with 0.2" x 0.2" (5.0cm x 5.0cm) copper pads

RATINGS AND CHARACTERISTIC CURVES SS22 THRU SS210

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

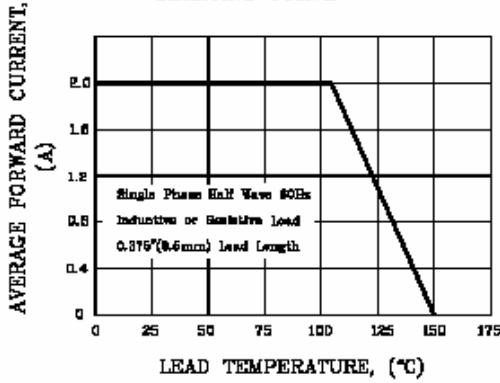


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

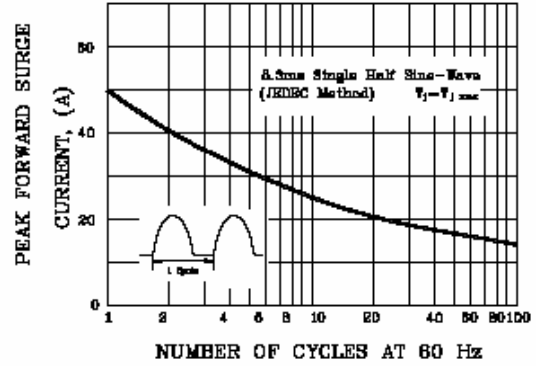


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

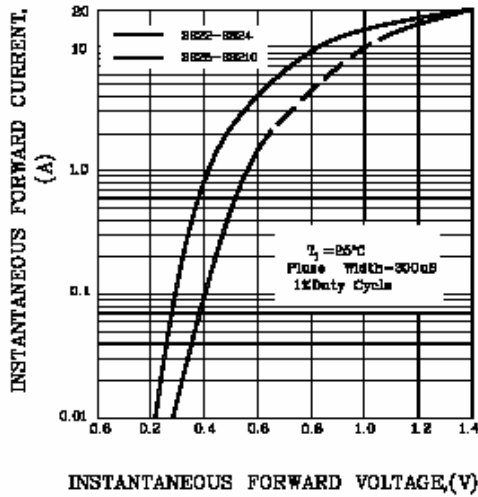


FIG.4-TYPICAL REVERSE CHARACTERISTICS

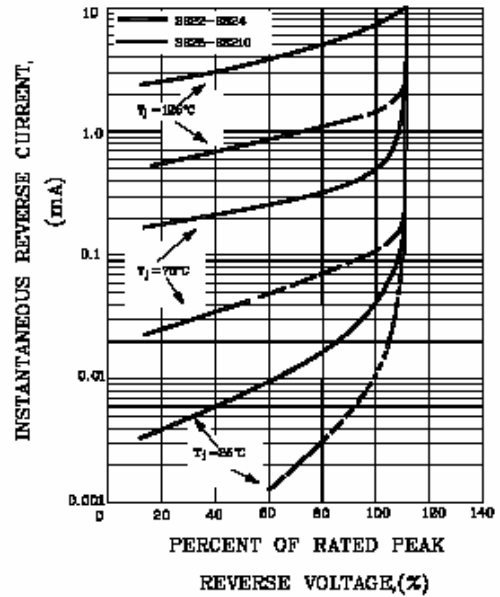


FIG.5-TYPICAL JUNCTION CAPACITANCE

