



SS22 THRU SS210

2.0 AMPS. Surface Mount Schottky Barrier Rectifiers



Voltage Range
20 to 100 Volts
Current
2.0 Amperes

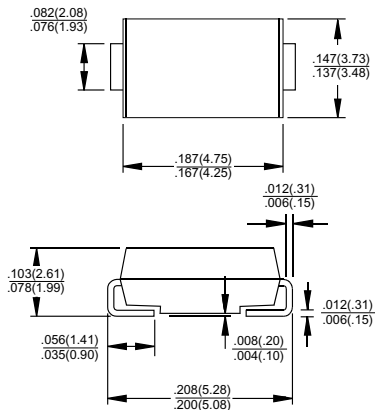
Features

- ✧ For surface mounted application
- ✧ Metal to silicon rectifier, majority carrier conduction
- ✧ Low forward voltage drop
- ✧ Easy pick and place
- ✧ High surge current capability
- ✧ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ✧ Epitaxial construction
- ✧ High temperature soldering: 250°C / 10 seconds at terminals

Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Solder plated
- ✧ Polarity: Indicated by cathode band
- ✧ Packaging: 12mm tape per EIA STD RS-481
- ✧ Weight: 0.093gram

SMB/DO-214AA



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	SS22	SS23	SS24	SS25	SS26	SS29	SS210	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	90	100	V
Maximum RMS Voltage	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at T _L (See Fig. 1)	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50							A
Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	0.5			0.70		0.85		V
Maximum DC Reverse Current @ T _A =25℃ at Rated DC Blocking Voltage @ T _A =100℃	0.5					0.1		mA
	20			10.0		-		mA
Typical Thermal Resistance (Note 2) R θ JL R θ JA	17							℃/W
	75							℃/W
Operating Temperature Range T _J	-65 to +125			-65 to +150				℃
Storage Temperature Range T _{STG}	-65 to +150							℃

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

2. Measured on P.C.Board with 0.2 x 0.2"(5.0 x 5.0mm) Copper Pad Areas.

RATINGS AND CHARACTERISTIC CURVES (SS22 THRU SS210)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

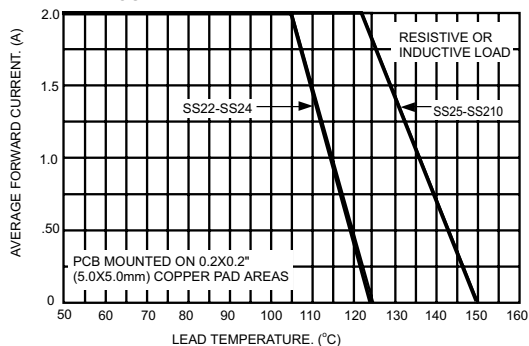


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

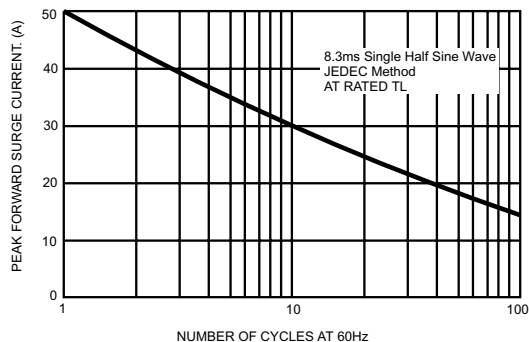


FIG.3- TYPICAL FORWARD CHARACTERISTICS

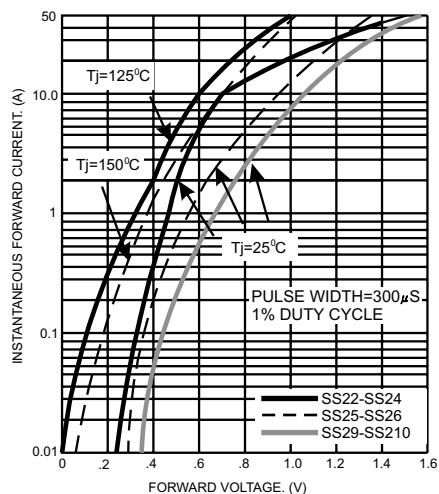


FIG.4- TYPICAL REVERSE CHARACTERISTICS

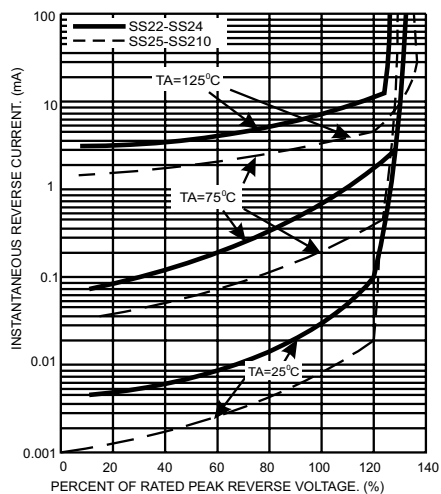


FIG.5- TYPICAL JUNCTION CAPACITANCE

