

SS22 THRU SS210

2.0 AMP. SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage Range
20 to 100 Volts
Current
2.0 Amperes

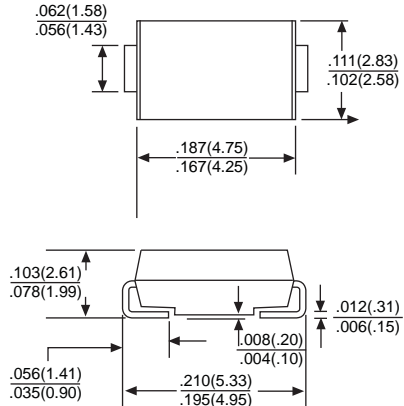
Features

- 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-O
- 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: 0.093 gram

SMA/DO-214AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Type Number		SS22	SS23	SS24	SS25	SS26	SS28	SS210	UNITS	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	V	
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	V	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V	
Maximum Average Forward Rectified Current at TL (See Fig.1)	I _{F(AV)}	2.0							A	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							A	
Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	V _F	0.45	0.55	0.6	0.7		0.85		V	
Maximum DC Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage @ T _A = 100°C	I _R	0.5							mA	
		20			10.0				mA	
Typical Thermal Resistance (Note 2)	R _{θ JL} R _{θ JA}					17				°C/W
						75				°C/W
Operating Temperature Range	T _J	-55 to +125							°C	
Storage Temperature Range	T _{STG}	-55 to +150							°C	

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.

RATING AND CHARACTERISTIC CURVES SS22 THRU SS210

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

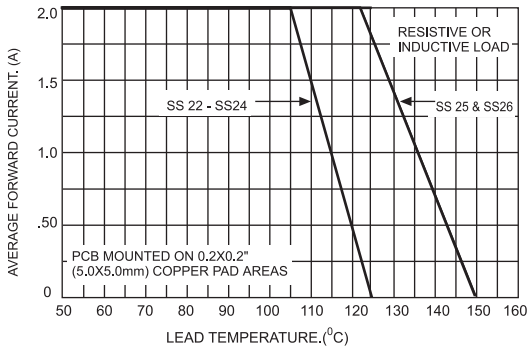


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

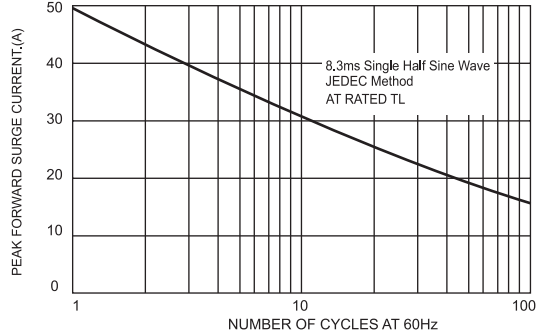


FIG.3-TYPICAL FORWARD CHARACTERISTICS

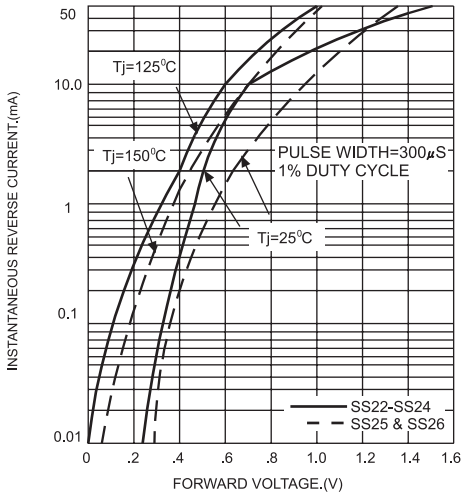


FIG.4-TYPICAL REVERSE CHARACTERISTICS

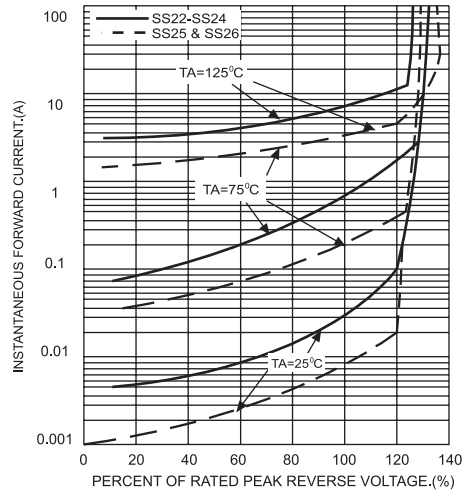


FIG.5-TYPICAL JUNCTION CAPACITANCE

