

# SS22 THRU SS210

## 2.0 AMP. SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

**Voltage Range**  
**20 to 100 Volts**  
**Current**  
**2.0 Amperes**

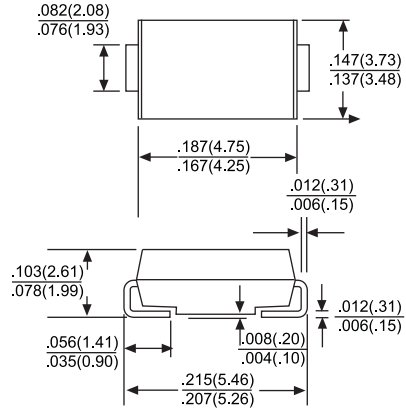
### Features

- 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

### 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, 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 $T_L$ (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 @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 100^\circ C$ $I_R$	0.5							mA mA	
	20			10.0					
Typical Thermal Resistance (Note 2) $R_{\theta JL}$ $R_{\theta JA}$				17 75					$^\circ C/W$ $^\circ C/W$
Operating Temperature Range $T_J$	-55 to +125							$^\circ C$	
Storage Temperature Range $T_{STG}$	-55 to +150							$^\circ C$	

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

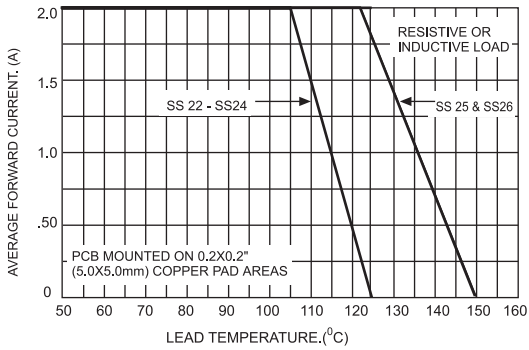


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

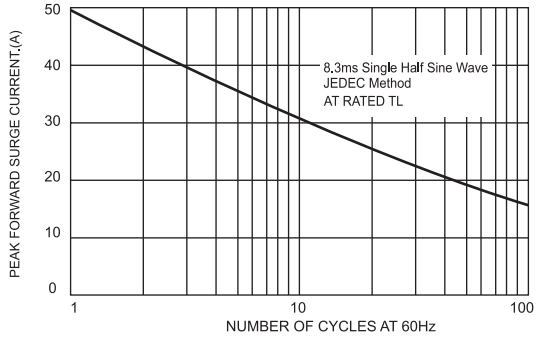


FIG.3-TYPICAL FORWARD CHARACTERISTICS

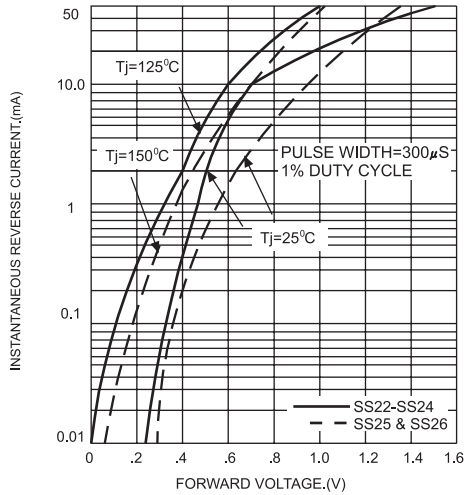


FIG.4-TYPICAL REVERSE CHARACTERISTICS

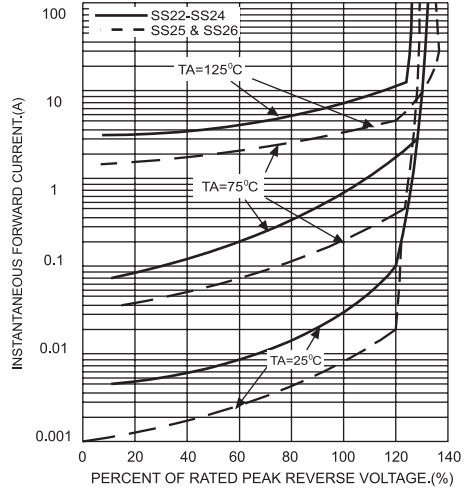


FIG.5-TYPICAL JUNCTION CAPACITANCE

