

## SCHOTTKY BARRIER RECTIFIERS

**REVERSE VOLTAGE: 20 to 200 VOLTS**

**FORWARD CURRENT: 2.0 AMPERE**

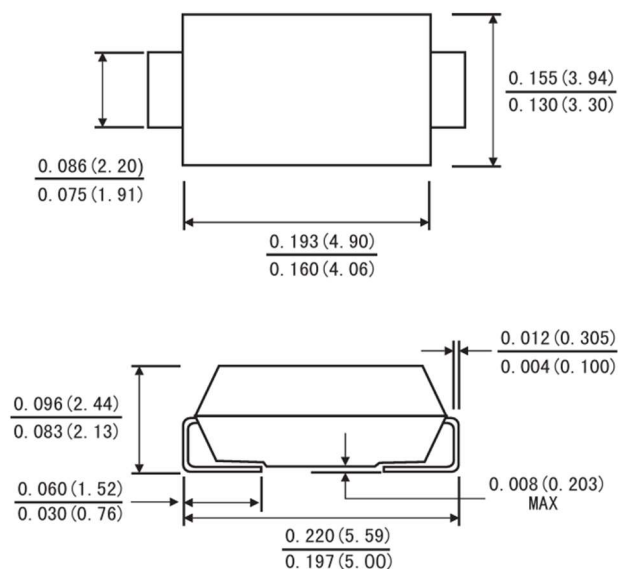
### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- For surface mounted applications
- High current capability, Low forward voltage drop
- High temperature soldering guaranteed:  
260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU

### Mechanical Data

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed
- Tape Reel: 3000pcs

### SMB(DO-214AA)



Dimensions in inches and (millimeters)

### 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%.

Parameters / Marking Code	Symbols	SS 22	SS 23	SS 24	SS 26	SS 210	SS 215	SS 220	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	60	100	150	200	Volts
Maximum RMS voltage	$V_{RMS}$	14	21	28	42	71	105	140	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current	$I_{(AV)}$	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 2.0 A(Note 1)	$V_F$	0.55		0.70		0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	$T_A=25^\circ\text{C}$	100				20			$\mu\text{A}$
	$T_A=100^\circ\text{C}$	5.0				-			$\text{mA}$
	$T_A=125^\circ\text{C}$	-				3.0			
Typical thermal resistance(Note 2)	$R_{\theta JA}$	70.0							$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	25.0							
Operating junction temperature range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

#### NOTES:

1. Pulse test: 300 $\mu\text{s}$  pulse width, 1% duty cycle
2. P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

## RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

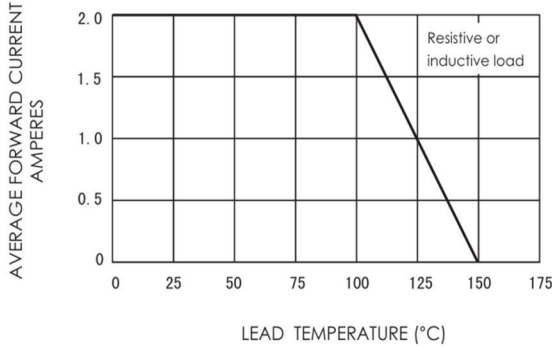


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

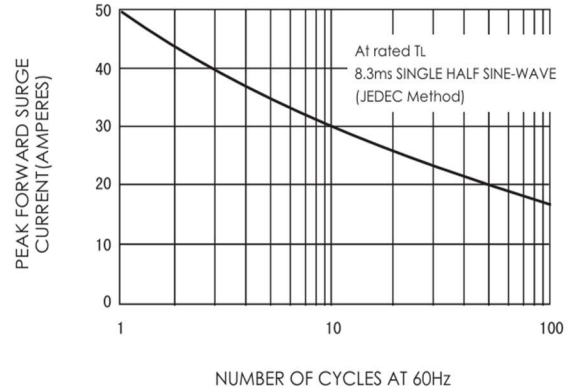


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

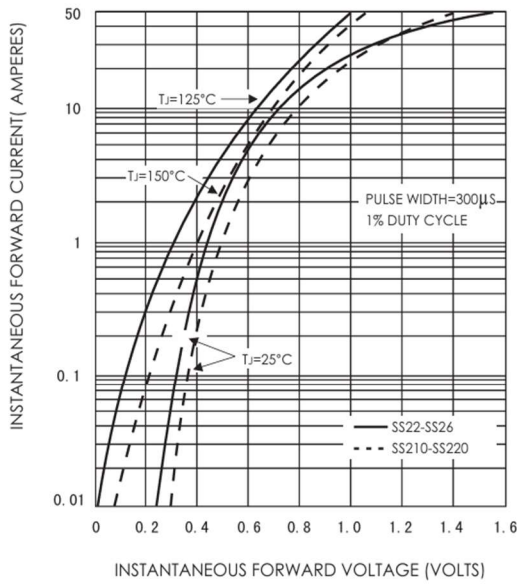


FIG.4-TYPICAL REVERSE CHARACTERISTICS

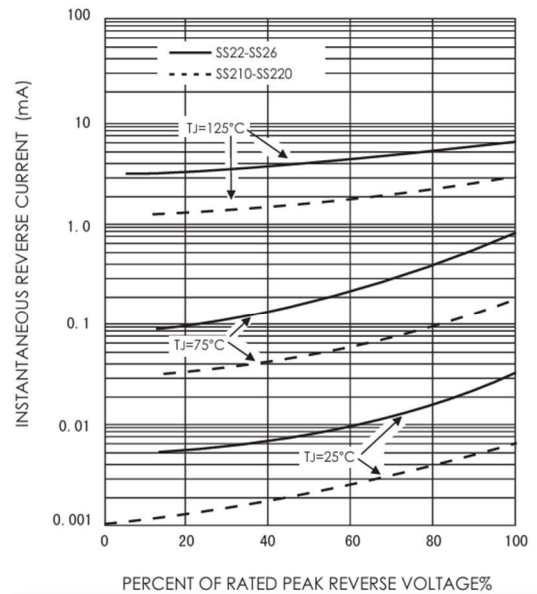


FIG.5-TYPICAL JUNCTION CAPACITANCE

