



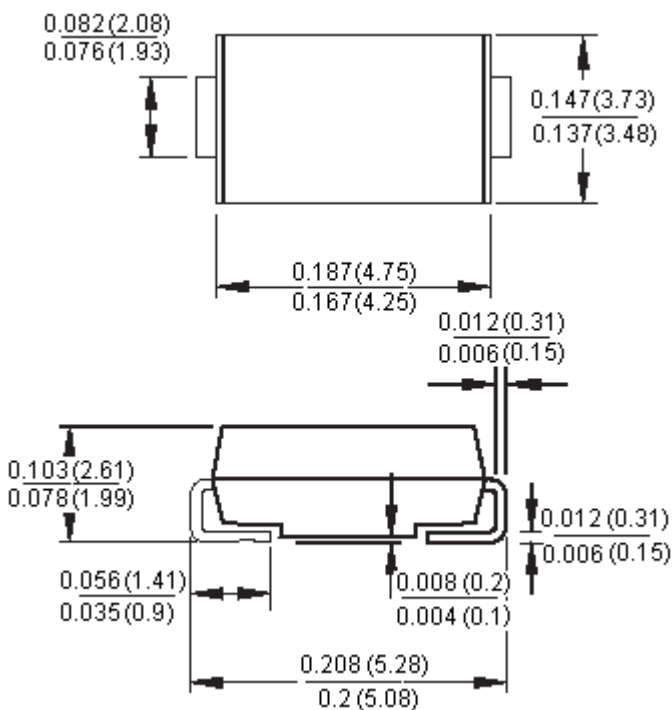
## Features:

- 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
- Epitaxial construction
- High temperature soldering : 260°C / 10 seconds at terminals

## SMB / DO-214AA

## Mechanical Data:

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



Dimensions Inches (Millimetres)

## 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%

Description	Symbol	SS24	SS26	SS210	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	60	100	V
Maximum RMS Voltage	$V_{RMS}$	28	42	70	
Maximum DC Blocking Voltage	$V_{DC}$	40	60	100	
Maximum Average Forward Rectified Current at $T_L$	$I_{(AV)}$	2			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) at 2 A	$V_F$	0.5	0.7	0.85	V

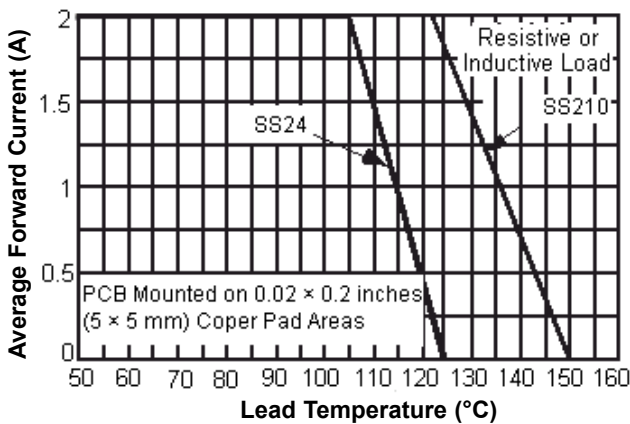
Description	Symbol	SS24	SS26	SS210	Unit
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 100^\circ\text{C}$	$I_R$	0.4		0.1	mA
		20	10	20	
Typical Junction Capacitance (Note 3)	$C_j$	130			pF
Typical Thermal Resistance (Note 2)	$R_{\theta_{JL}}$	17			$^\circ\text{C} / \text{W}$
	$R_{\theta_{JA}}$	15			
Operating Temperature Range	$T_J$	-65 to +125	-65 to +150		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150			

## Notes:

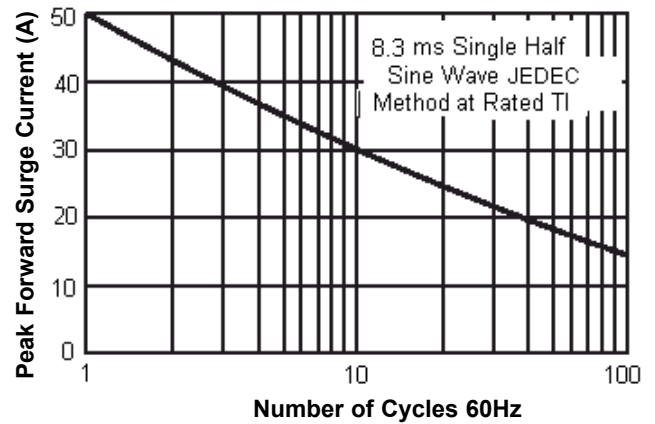
1. Pulse Test with  $PW = 300 \mu$  seconds, 1% Duty Cycle
2. Measured on P.C. Board with  $0.4 \times 0.4$  inches ( $10 \times 10$  mm) Copper Pad Areas
3. Measured at 1 MHz and Applied Reverse Voltage of 4 V dc

## Ratings and Characteristic Curves

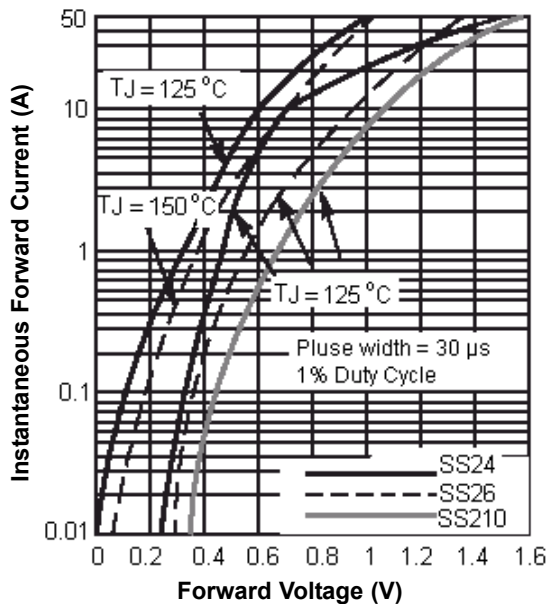
Maximum Forward Current Derating Curve



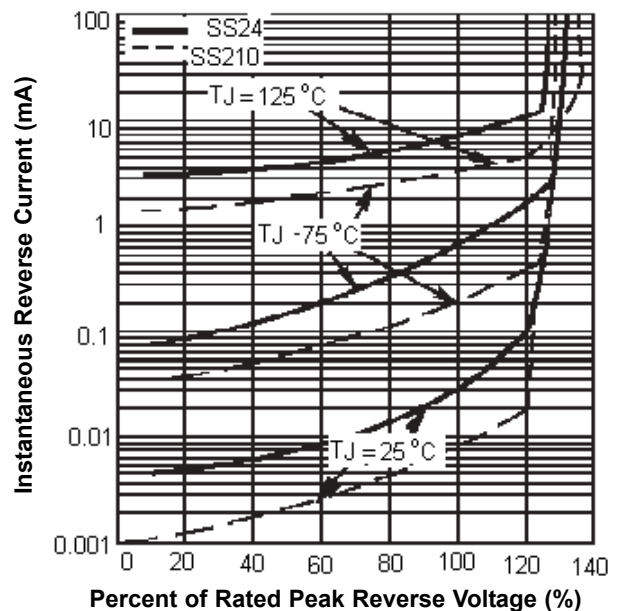
Maximum Non-Repetitive Forward Surge Current



Typical Forward Characteristics

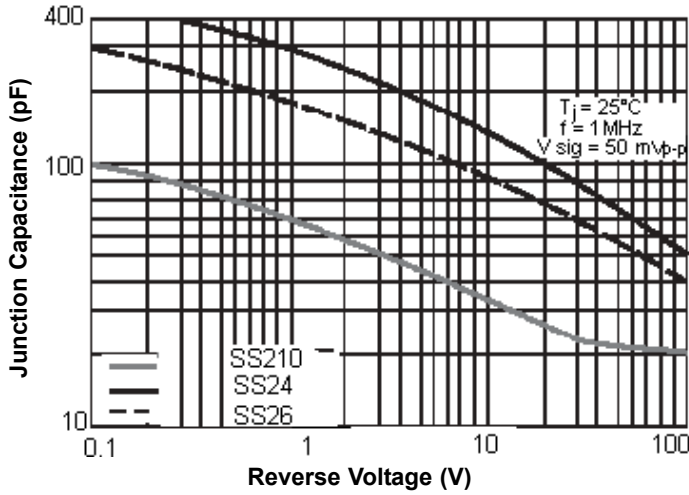


Typical Reverse Characteristics

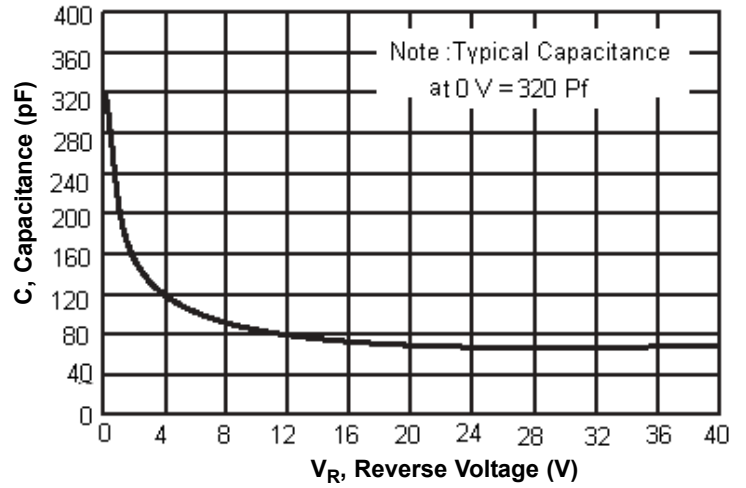


## Ratings and Characteristic Curves

Typical Junction Capacitance



Typical Capacitance



## Part Number Table

Description	Part Number
Diode, Schottky 2 A 40 V SMB	SS24
Diode, Schottky 2 A 60 V SMB	SS26
Diode, Schottky 2 A 100 V SMB	SS210

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