

Diode, Schottky



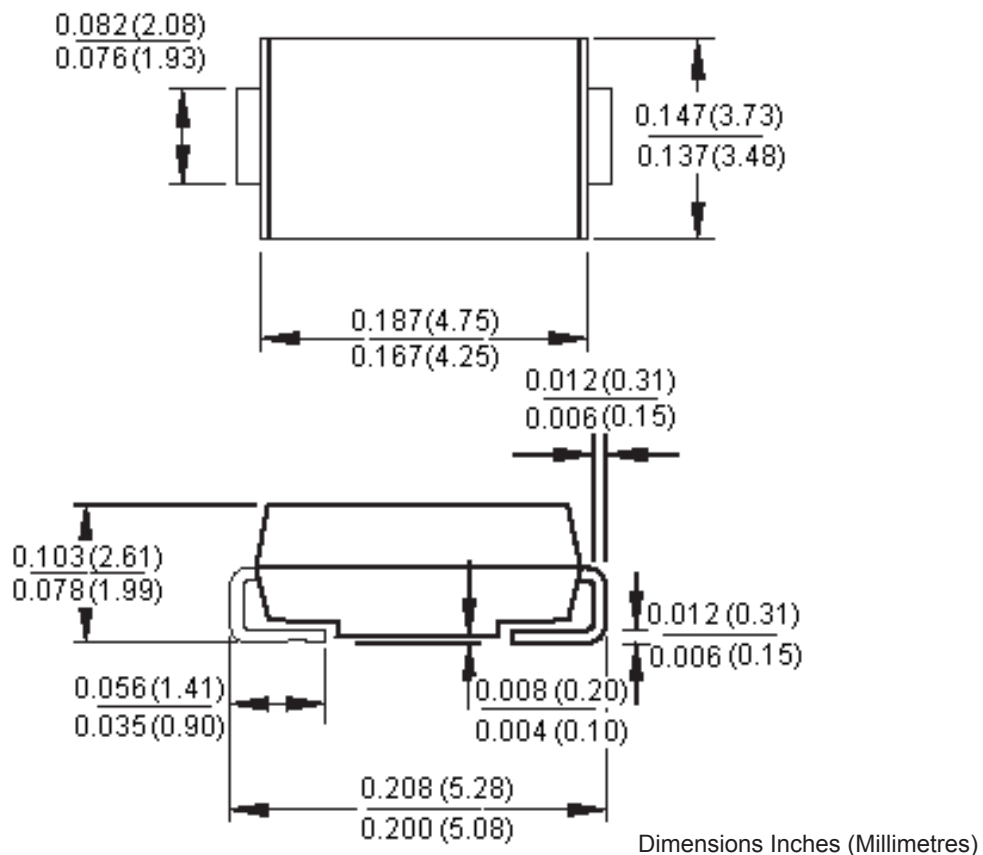
Features:

- 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.

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



Maximum Ratings and Electrical Characteristics

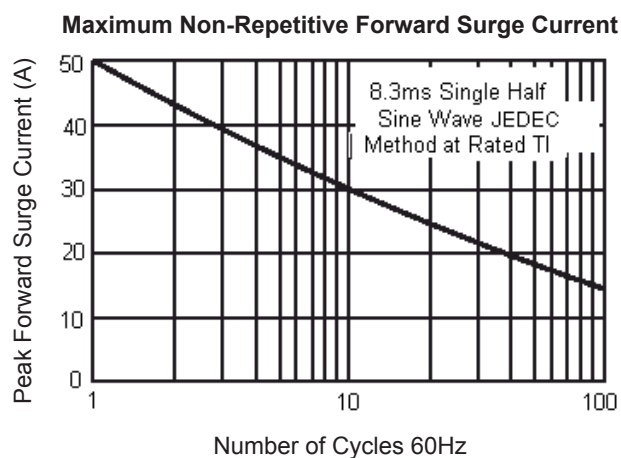
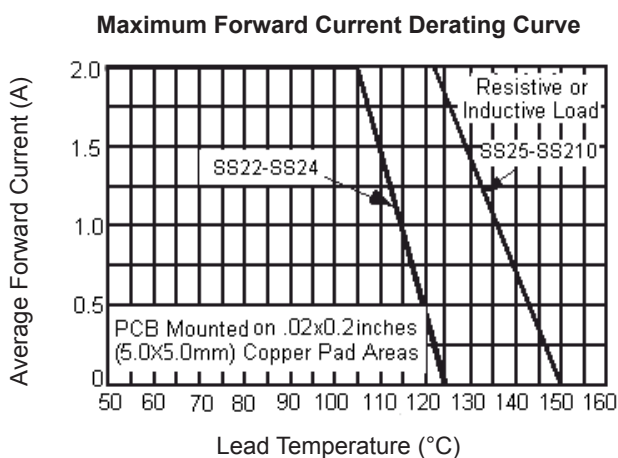
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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	$I_{(AV)}$	2.0			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I	50			
Maximum Instantaneous Forward Voltage (Note 1) at 2.0A	V_F	0.5	0.70	0.85	V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 100^\circ\text{C}$	I	0.4		0.1	mA
		20	10.0	20	
Typical Junction Capacitance (Note 3)	C_j	130			pF
Typical Thermal Resistance (Note 2)	$R_{\theta_{JL}}$	17			$^\circ\text{C/W}$
	$R_{\theta_{JA}}$	15			
Operating Temperature Range	T_J	-65 to +125	-65 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +150			

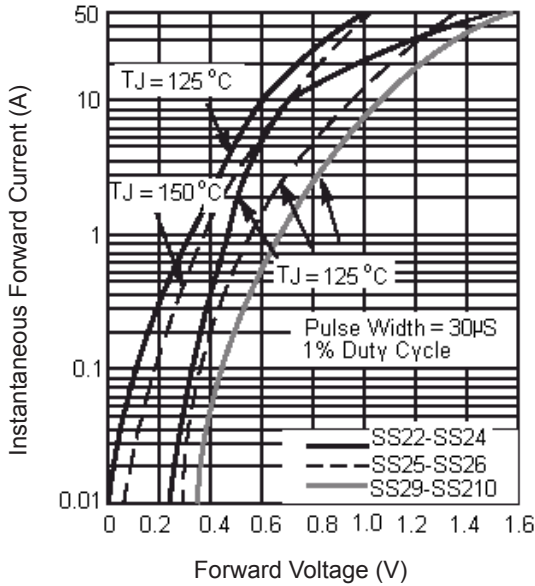
Notes:

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

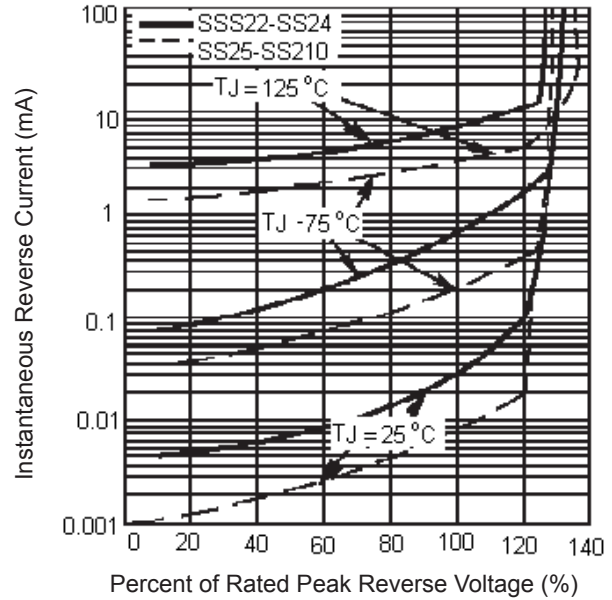
Ratings and Characteristic Curves



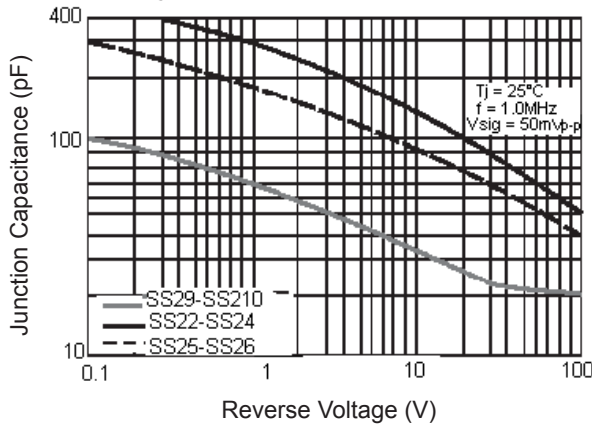
Typical Forward Characteristics



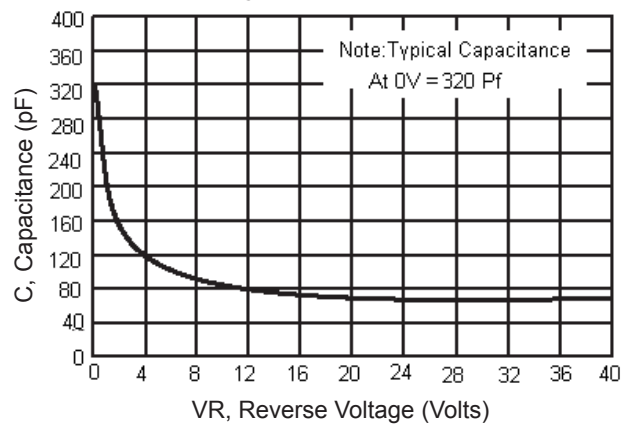
Typical Reverse Characteristics



Typical Junction Capacitance



Typical Capacitance



Part Number Table

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

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