



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	: 16mm tape per EIA STD RS-481
Weight	: 0.21g

Maximum Ratings and Electrical Characteristics

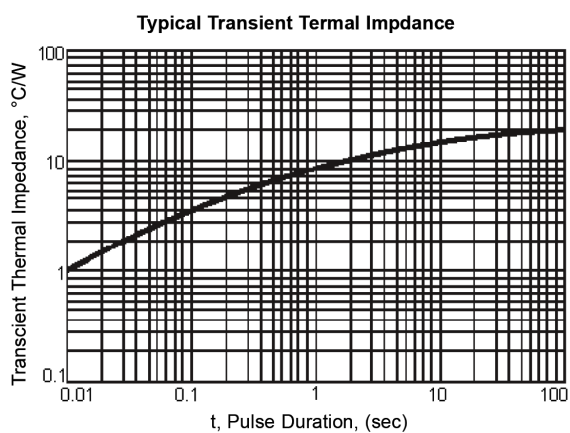
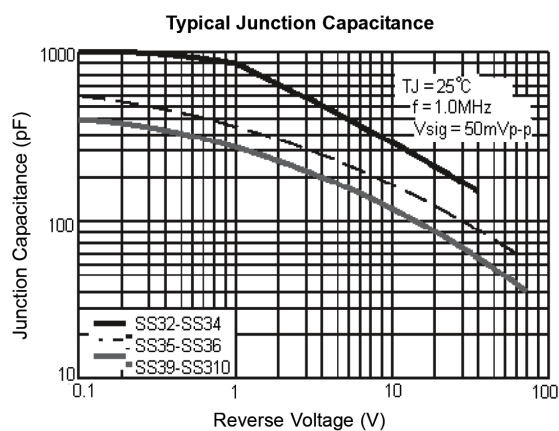
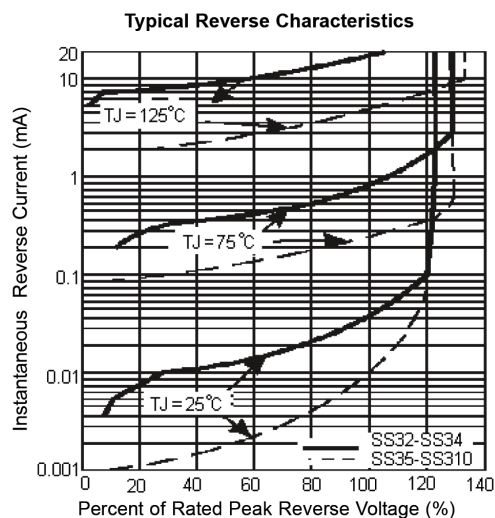
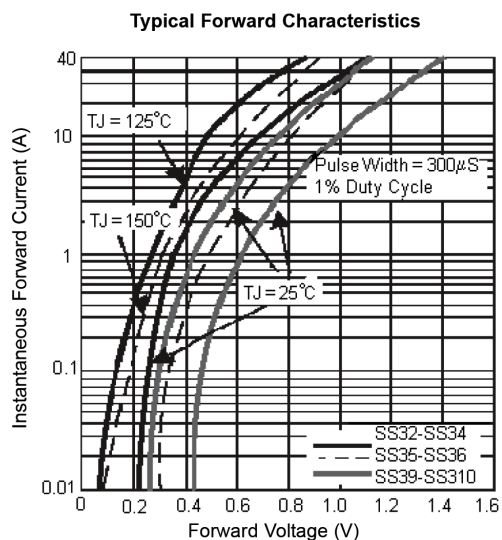
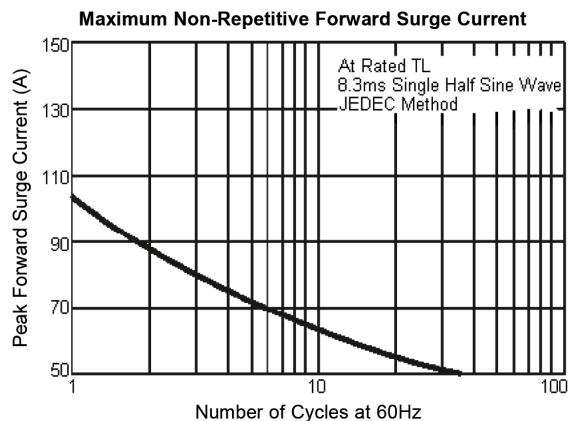
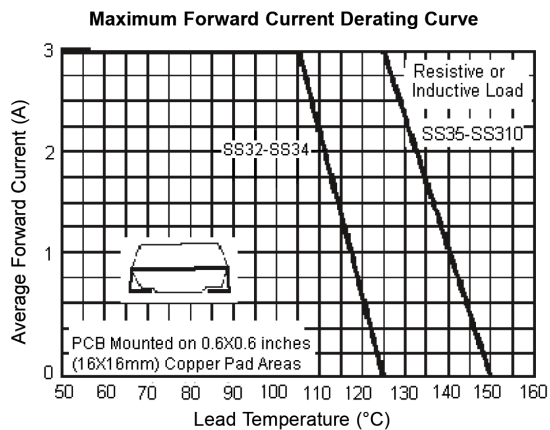
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Description	Symbol	SS310	Unit
Max. Recurring Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	
Maximum DC Blocking Voltage	V_{DC}	100	
Max. Average Forward Rectified Current at T_L	$I_{(AV)}$	3	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	100	
Max. Instantaneous Forward Voltage (Note 1) at 3A	V_F	0.85	V
Max. DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 100^\circ\text{C}$	I_R	0.6	mA
		20	
Typical Thermal Resistance (Note 2)	$R\theta_{JL}$	17	$^\circ\text{C/W}$
	$R\theta_{JA}$	55	
Operating Temperature Range	T_J	-55 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{STG}		

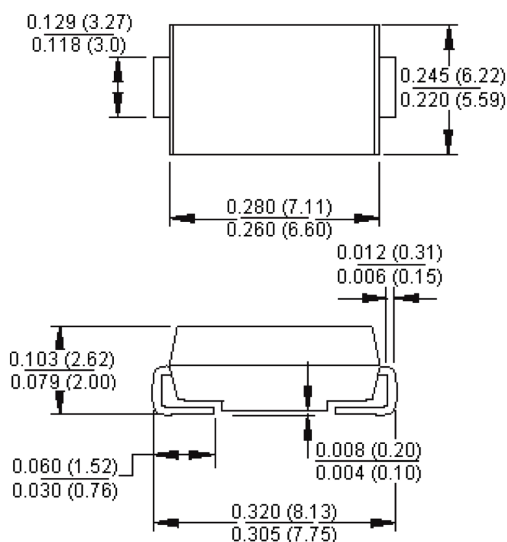
Notes:

1. Pulse Test with $PW = 300\mu\text{sec}$, 1% Duty Cycle
2. Measured on P.C.Board with $0.6" \times 0.6"$ (16mm $\times$ 16mm) Copper Pad Areas

Ratings and Characteristic Curves



SMC/DO-214AB



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Diode, Schottky, 3A, 100V, SMC	SS310

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