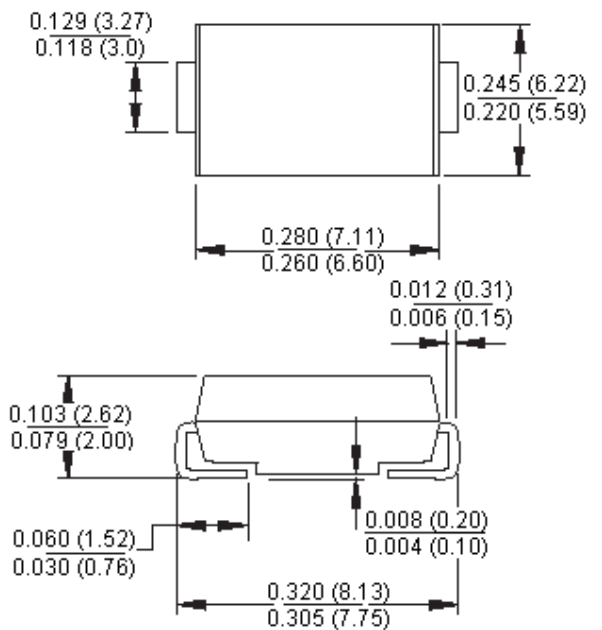




Features:

- 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.

SMC/DO-214AB



Dimensions Inches (Millimeters)

Mechanical Data:

Case	: Molded plastic.
Terminals	: Solder plated.
Polarity	: Indicated by cathode band.
Packaging	: 16mm tape per EIA STD RS-481.
Weight	: 0.21 gram.

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%.

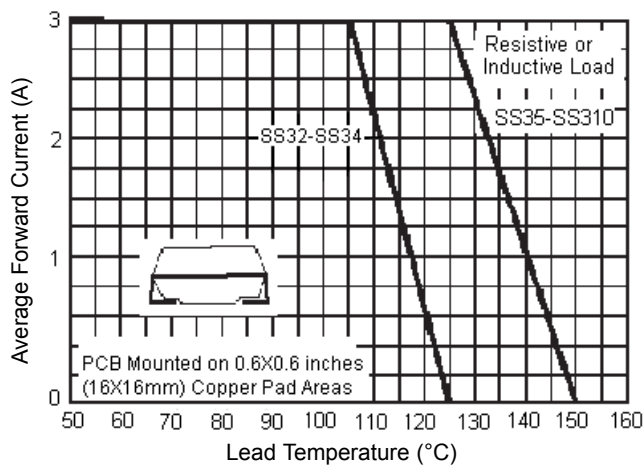
Description	Symbol	SS310	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	
Maximum DC Blocking Voltage	V_{DC}	100	
Maximum Average Forward Rectified Current at T_L	$I_{(AV)}$	3.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	100	
Maximum Instantaneous Forward Voltage (Note 1) at 3.0A	V_F	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_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:

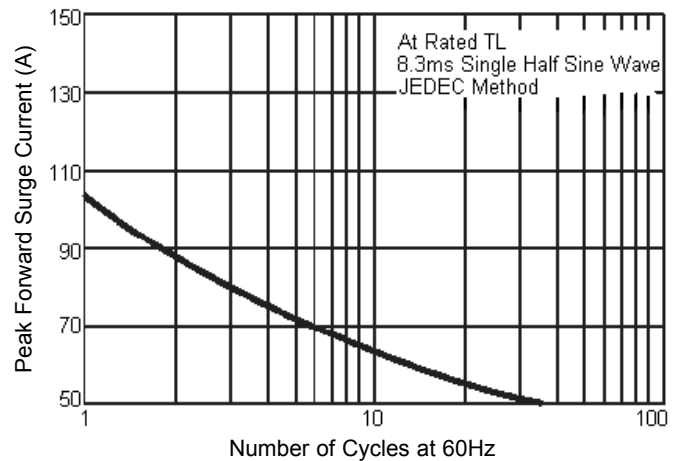
1. Pulse Test with $PW = 300 \mu\text{sec}$, 1% Duty Cycle.
2. Measured on P.C.Board with $0.6 \times 0.6''$ (16 x 16mm) Copper Pad Areas.

Ratings and Characteristic Curves

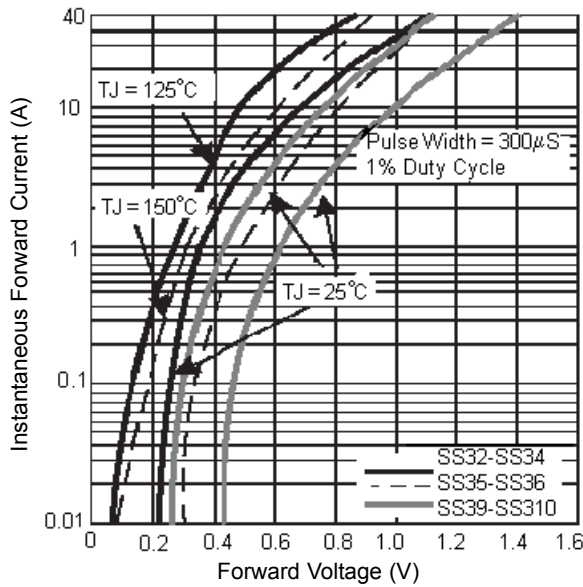
Maximum Forward Current Derating Curve



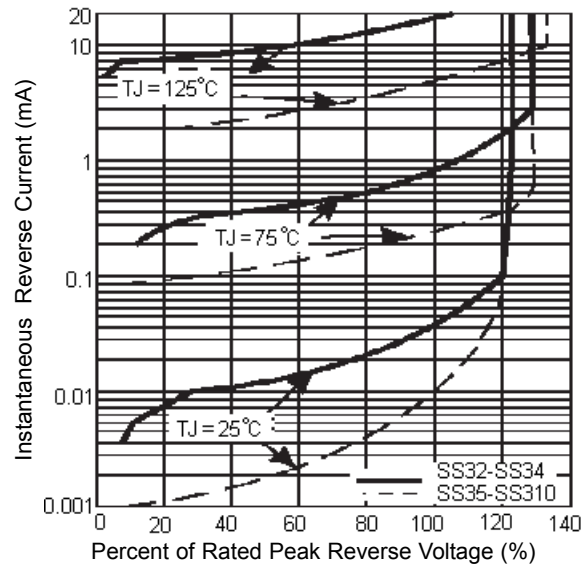
Maximum Non-Repetitive Forward Surge Current



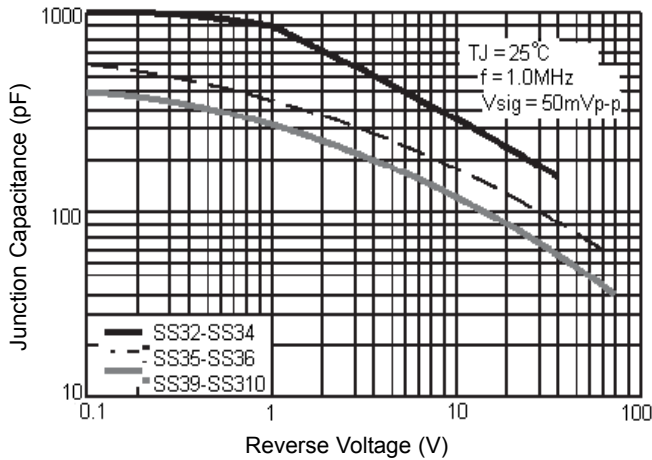
Typical Forward Characteristics



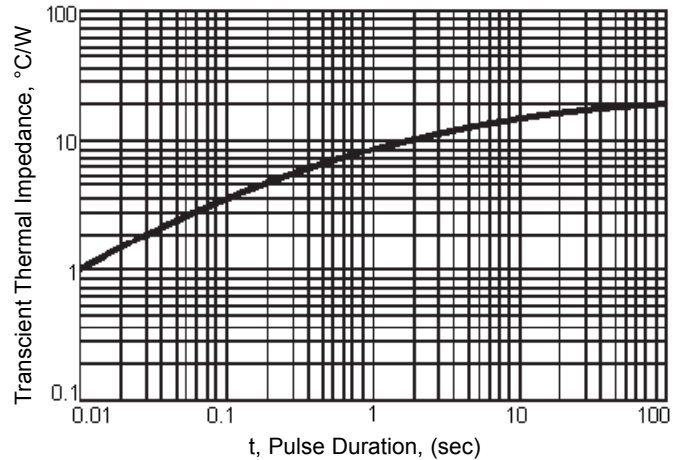
Typical Reverse Characteristics



Typical Junction Capacitance



Typical Transient Thermal Impedance



Part Number Table

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

Diode, Schottky



Notes:

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