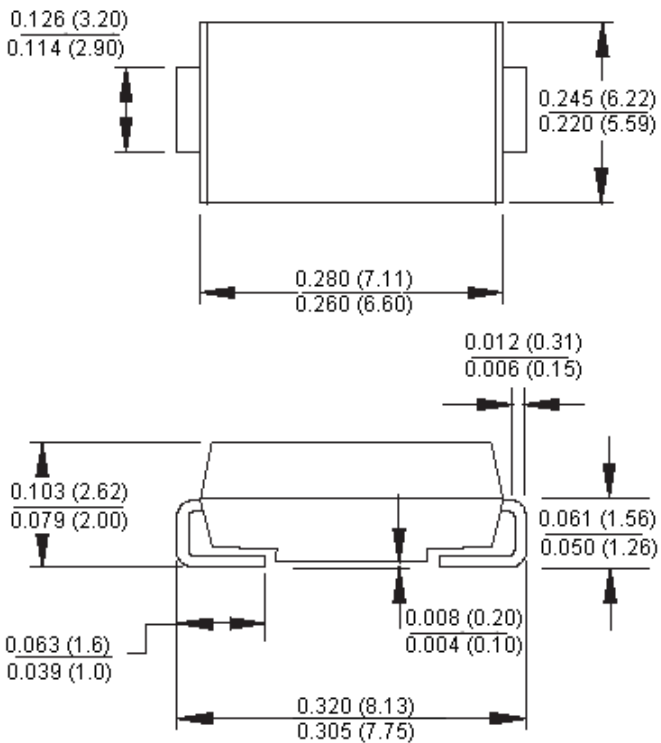




Features:

- For surface mounted application.
- Easy pick and place.
- Metal to silicon rectifier, majority carrier conduction.
- Low power loss, high efficiency.
- High current capability, low V_F .
- High surge current capability.
- Plastic material.
- Epitaxial construction.
- High temperature soldering: 260°C/10 seconds at terminals.

SMB/DO-214AB



Dimensions : Inches (Millimetres)

Mechanical Data:

Cases	: Moulded plastic.
Terminals	: Pure tin plated, lead free.
Polarity	: Indicated by cathode band.
Packing	: 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.

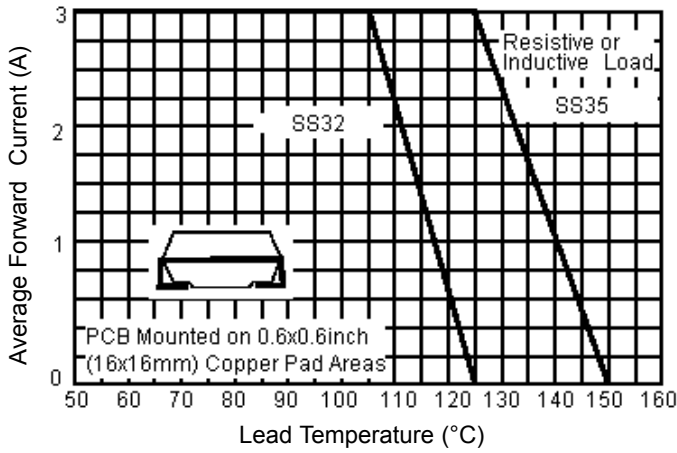
For capacitive load, derate current by 20%.

Type Number	Symbol	SS32	SS33	SS35	SS39	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	50	90	V
Maximum RMS Voltage	V_{RMS}	14	21	35	63	
Maximum DC Blocking Voltage	V_{DC}	20	30	50	90	
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		70		
Maximum Instantaneous Forward Voltage (Note 1) $I_F = 3.0A$ at 25°C at 100°C	V_F	0.5 0.4		0.75 0.65	0.85 0.70	V
Maximum DC Reverse Current at $T_A = 25^\circ C$ at Rated DC Blocking Voltage at $T_A = 125^\circ C$	I_R	0.5			0.1	μA
		10		5	0.5	μA
Typical Junction Capacitance (Note 2)	$R_{\theta JL}$	17				$^\circ C/W$
	$R_{\theta JA}$	55				
Operating Temperature Range	T_J	-55 to +125		-55 to +150		$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150				

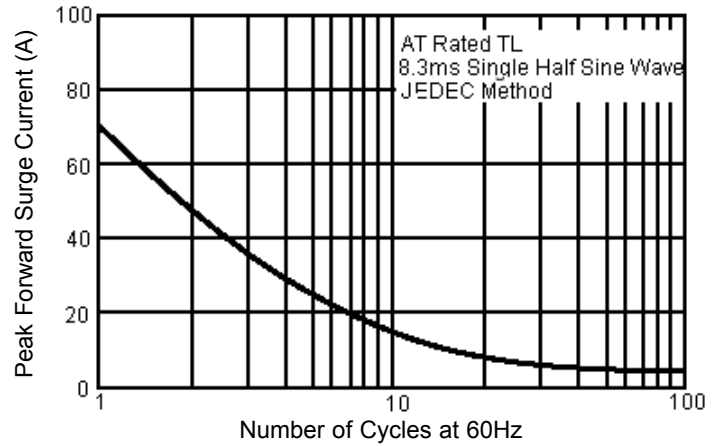
Notes: 1. Pulse Test with PW = 300 μ seconds, 1% Duty Cycle.

Ratings and Characteristic Curves (SS32, SS33, SS35, SS39)

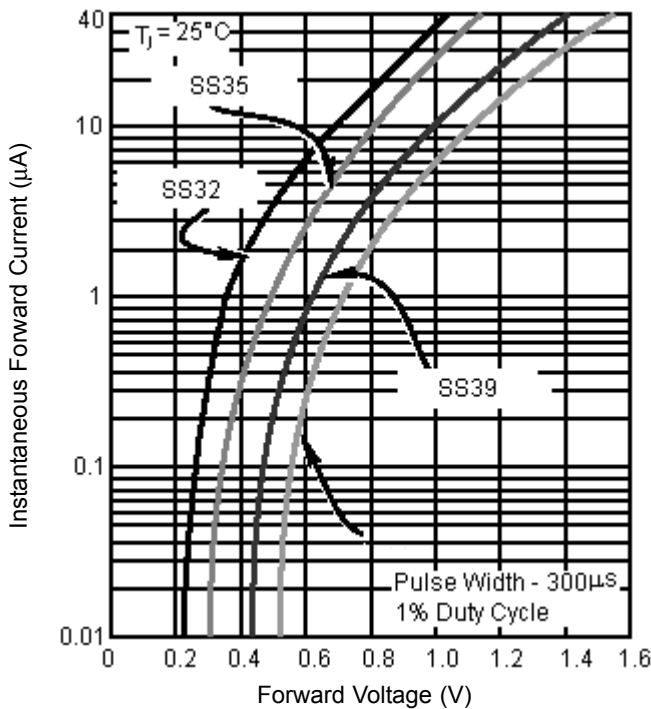
Maximum Forward Current Derating Curve



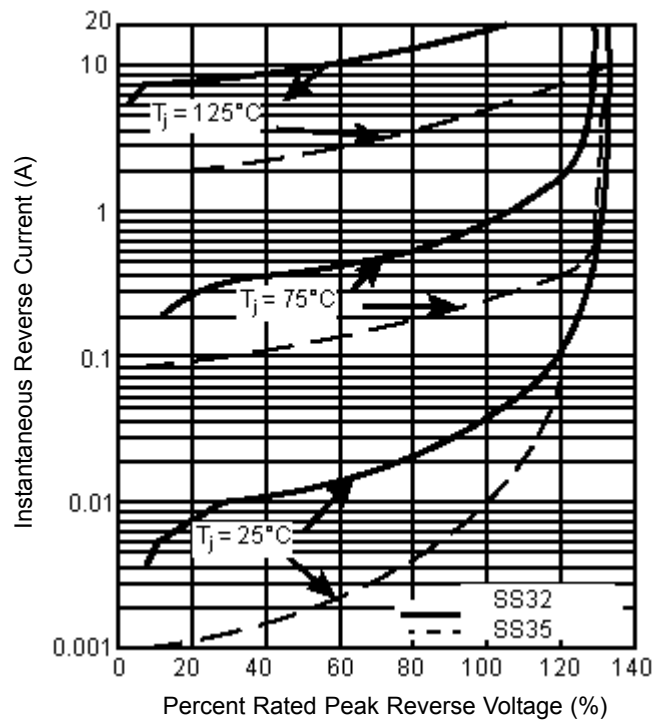
Maximum Non-Repetitive Peak Forward Surge Current



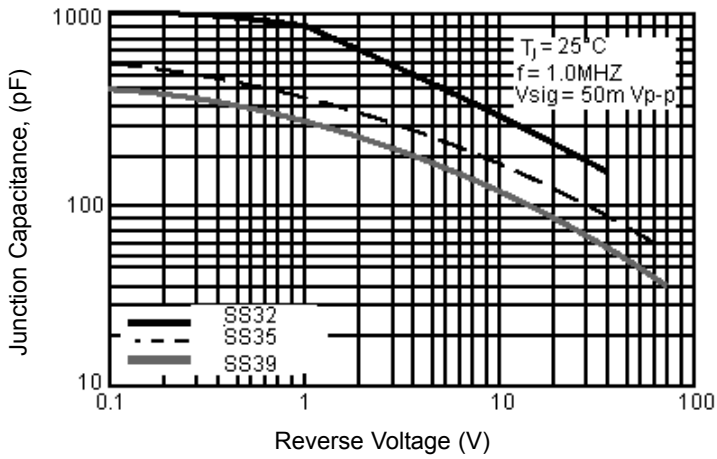
Typical Forward Characteristics



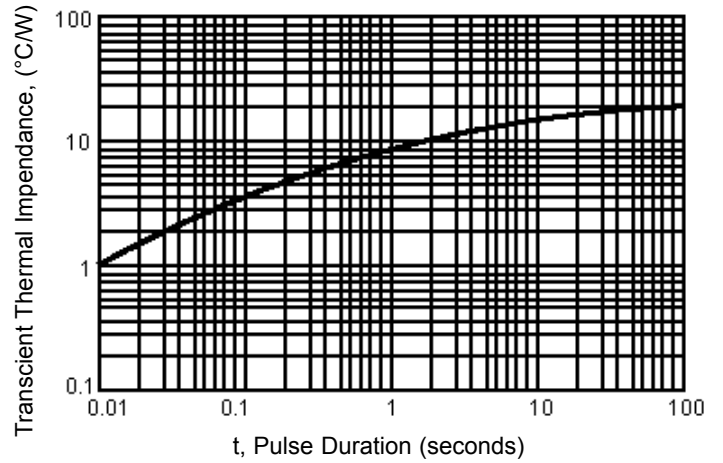
Typical Reverse Characteristics



Typical Junction Capacitance



Typical Transient Thermal Characteristics



Part Number Table

Description	Part Number
Diode, Schottky, 3A, 20V	SS32
Diode, Schottky, 3A, 30V	SS33
Diode, Schottky, 3A, 50V	SS35
Diode, Schottky, 3A, 90V	SS39

Notes:

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