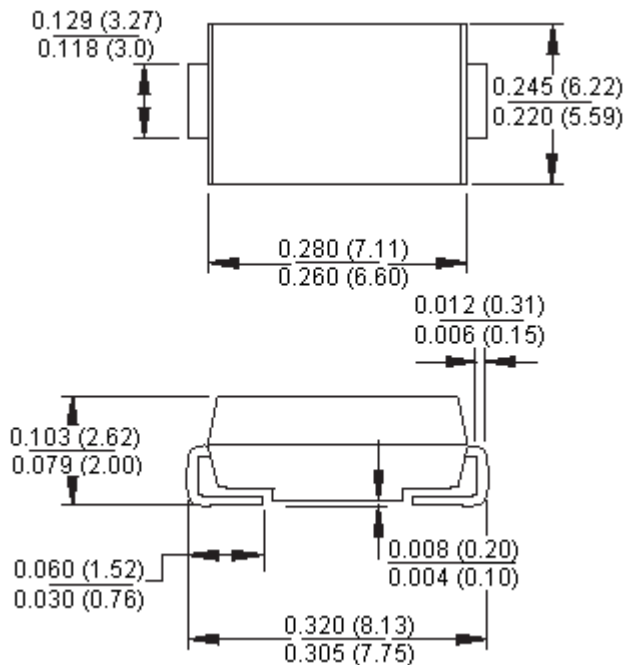




## Features:

- 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

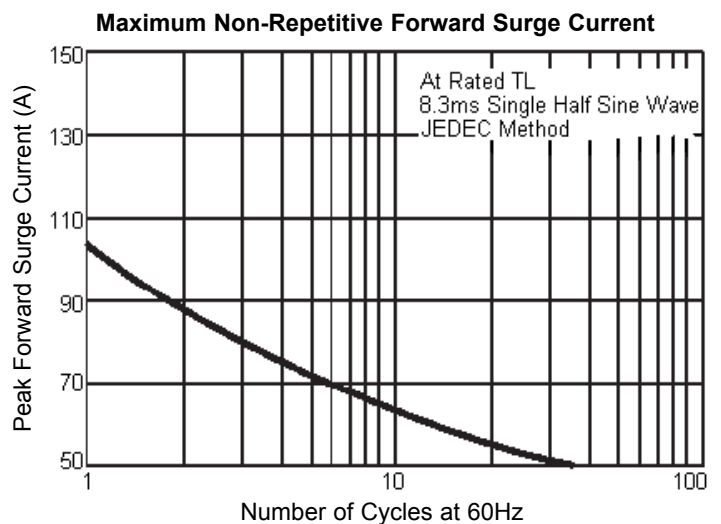
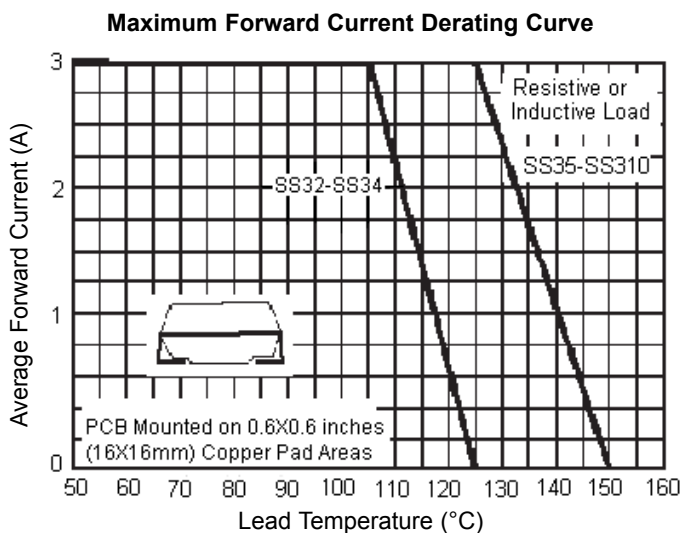
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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	$T_{STG}$		

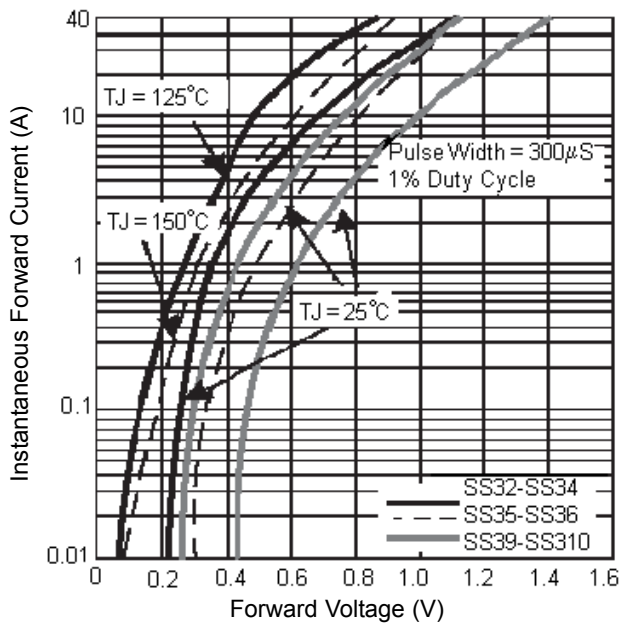
### Notes:

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

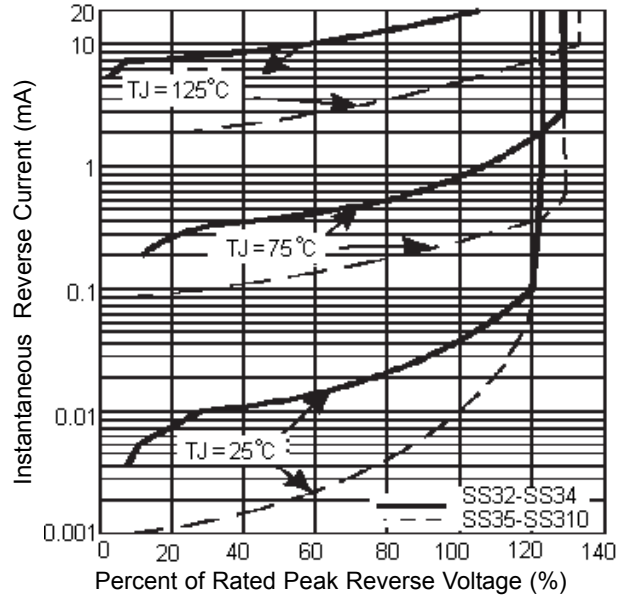
## Ratings and Characteristic Curves



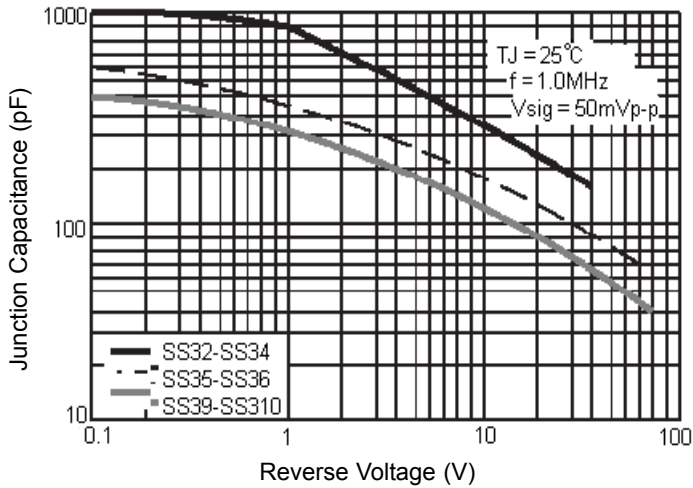
Typical Forward Characteristics



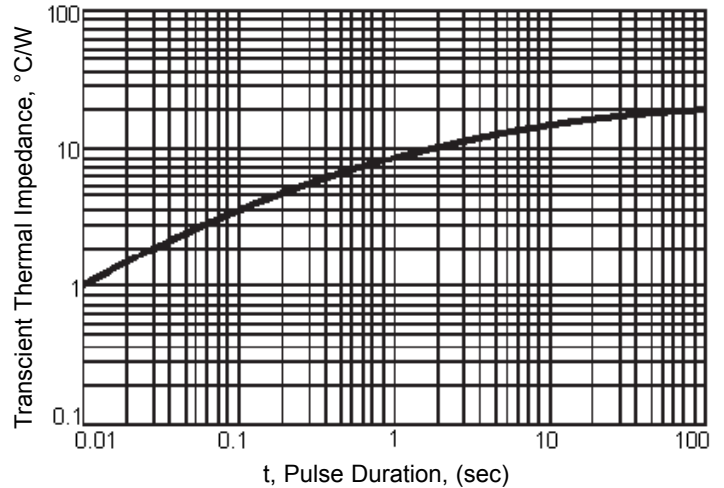
Typical Reverse Characteristics



Typical Junction Capacitance



Typical Transient Thermal Impedance



## Part Number Table

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

## Notes:

## International Sales Offices:

	<b>AUSTRALIA - Farnell</b> Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225		<b>FINLAND - Farnell</b> Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411		<b>ITALY - Farnell</b> Tel No: ++ 39 02 93 995 200 Fax No: ++ 39 02 93 995 300		<b>SPAIN - Farnell</b> Tel No: 901 20 20 80 Fax No: 901 20 20 90
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	<b>CZECH REPUBLIC - Farnell</b> Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		<b>INDIA - Farnell</b> Tel No: ++ 44 870 1200 208 Fax No: ++ 44 870 1200 209		<b>PORTUGAL - Farnell</b> Tel No: ++ 34 93 475 8804 Fax No: ++ 34 93 474 5288		<b>USA - Newark</b> Tel No: 800 463 9275
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