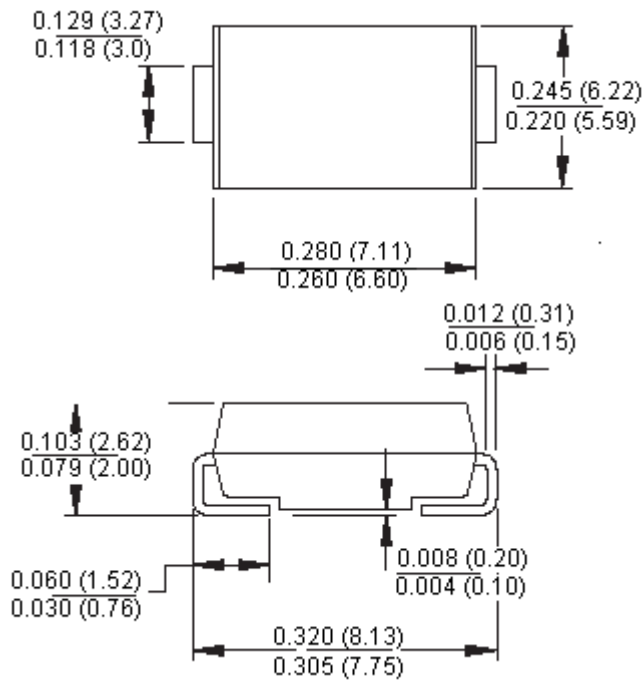




Features:

- For surface mounted application.
- Glass passivated junction chip.
- Low forward voltage drop.
- High surge current capability.
- Easy pick and place.
- Plastic material.
- High temperature soldering : 260°C/10 seconds at terminals.

SMB/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%.

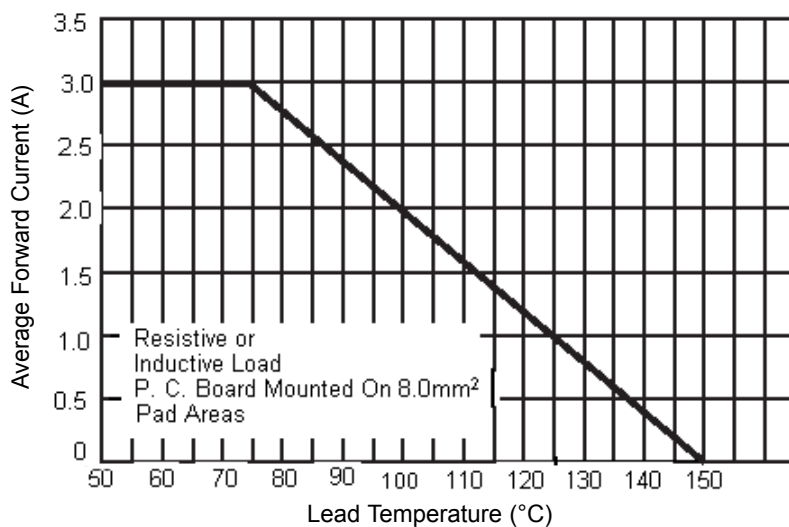
Description	Symbol	S4G	S4M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	400	1000	V
Maximum RMS Voltage	V_{RMS}	280	700	
Maximum DC Blocking Voltage	V_{DC}	400	1000	
Maximum Average Forward Rectified Current at $T_L = 75^\circ\text{C}$	$I_{(AV)}$	4.0		A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	100		
Maximum Instantaneous Forward Voltage (Note 1) at 4.0A	V_F	1.15		V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	I_R	10.0 250		μA
Typical Thermal Resistance (Note 3)	$R\theta_{JL}$ $R\theta_{JA}$	13 47		$^\circ\text{C/W}$
Maximum Reverse Recovery Time (Note 1)	T_{rr}	2.5		μS
Typical Junction Capacitance (Note 2)	C_j	60		pF
Operating Temperature Range	T_j	-55 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{STG}			

Notes:

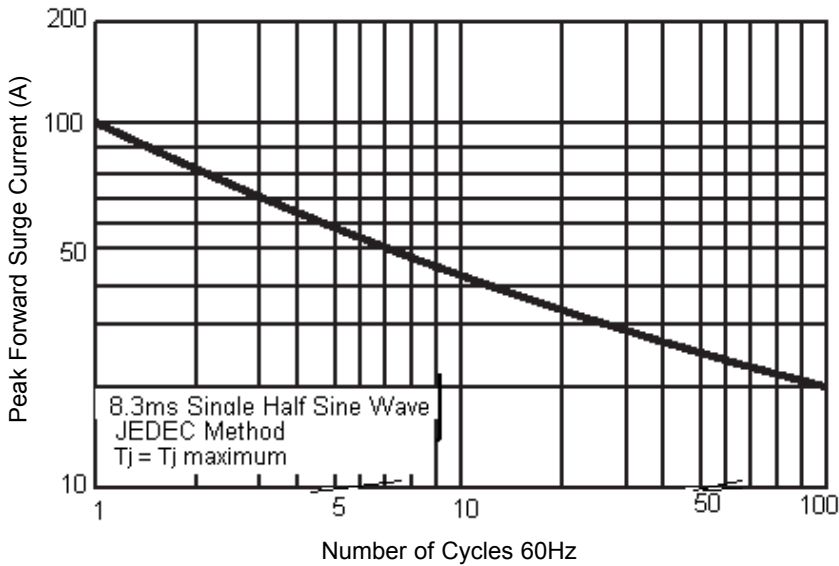
- Reverse Recovery Test Conditions : $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.
- Measured at 1MHz and Applied $V_R = 4.0$ Volts.
- Measured on P.C. Board with 0.6" x 0.6" (16mm x 16mm) Copper Pad Areas.

Ratings and Characteristic Curves

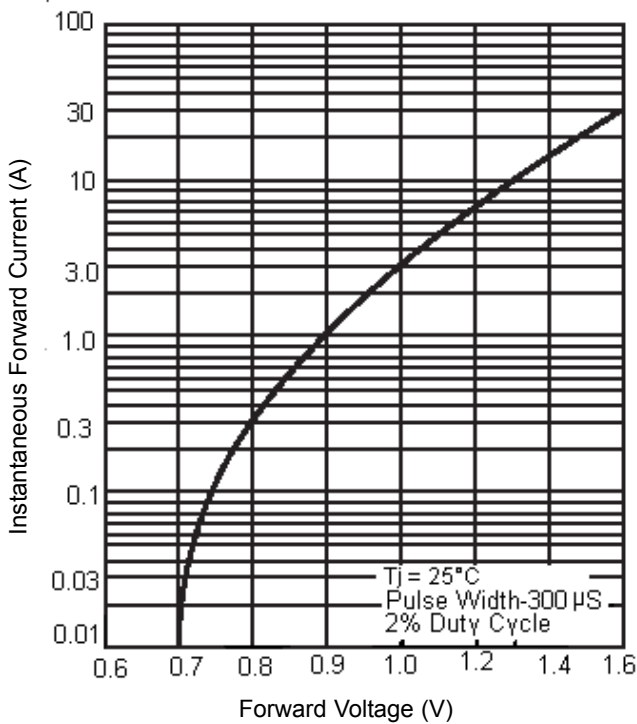
Maximum Forward Current Derating Curve



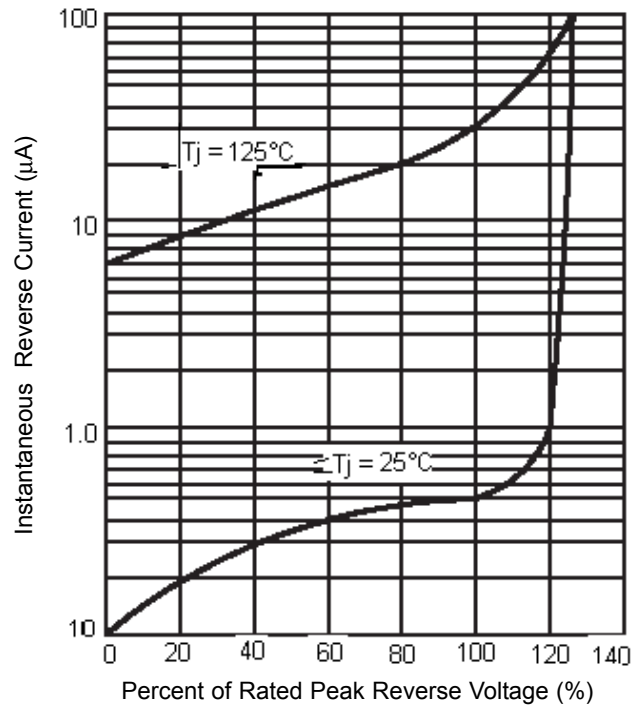
Maximum Non-Repetitive Forward Surge Current



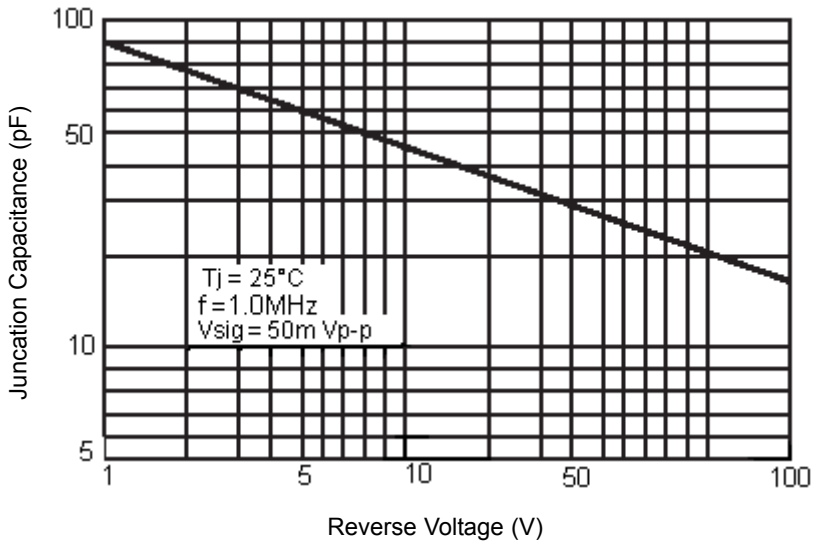
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



Part Number Table

Description	Part Number
Diode, 4A 400V SMC	S4G
DIODE, 4A 1000V SMC	S4M

Notes:

International Sales Offices:

	AUSTRALIA - Farnell Tel No: ++61 1300 361 005 Fax No: ++61 1300 361 225		FINLAND - Farnell Tel No: ++ 358 9 560 7780 Fax No: ++ 358 9 345 5411		ITALY - Farnell Tel No: ++ 39 02 93 995 200 Fax No: ++ 39 02 93 995 300		SPAIN - Farnell Tel No: 901 20 20 80 Fax No: 901 20 20 90
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