





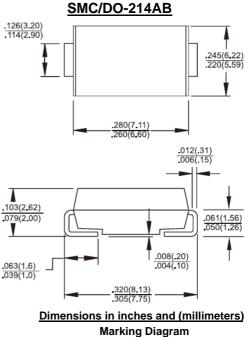
Features

- ♦ For surface mounted application
- ♦ Glass passivated junction chip.
- ♦ Low forward voltage drop
- ♦ High current capability
- Easy pick and place
- ♦ High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- ↔ High temperature soldering: 260°C/10 seconds at terminals
- ☆ Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- ♦ Case: Molded plastic
- ♦ Terminals: Pure tin plated, lead free.
- ♦ Polarity: Indicated by cathode band
- ♦ Packaging: 16mm tape per EIA STD RS-481
- ♦ Weight: 0.21 grams

S4A - S4M 4.0 AMPS. Surface Mount Rectifiers



Maximum Ratings and Electrical Characteristics

Rating at 25 $^\circ\!\mathbb{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	S4A	S4B	S4D	S4G	S4J	S4K	S4M	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TL=75 $^{\circ}$ C	I _{F(AV)}	4							А
Peak Forward Surge Current, 8.3 ms Single Half Sine- wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100							A
Maximum Instantaneous Forward Voltage (Note 1) @ 4 A	V _F	1.15							V
Maximum DC Reverse Current@ T $_A$ =25 °Cat Rated DC Blocking Voltage@ T $_A$ =125 °C	I _R	10 250							uA uA
Typical Reverse Recovery Time (Note 2)	Trr	1.5						uS	
Typical Junction Capacitance (Note 3)	Cj	60						pF	
Typical Thermal Resistance	R _{θJL} R _{θJA}	13 47						°C/W	
Operating Temperature Range	TJ	- 55 to + 150						°C	
Storage Temperature Range	T _{STG}	- 55 to + 150						°C	

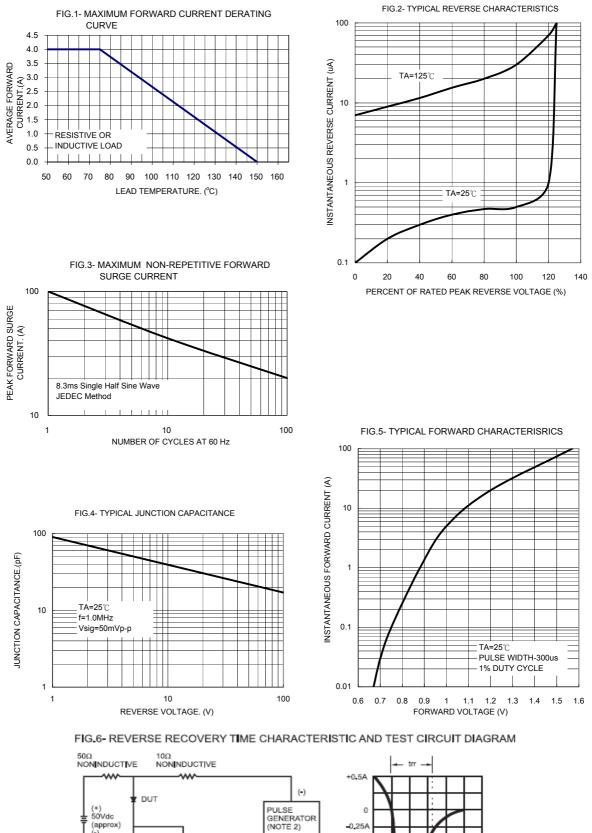
Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

2. Reverse Recovery Test Conditions: I F=0.5A, IR=1.0A, IRR=0.25A

3. Measured at 1 MHz and Applied VR=4.0 Volts



RATINGS AND CHARACTERISTIC CURVES (S4A THRU S4M)



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OSCILLOSCOPE (NOTE 1) NDUCTIVE NOTES: 1. Rise Time=7ns max. Input Impedance= 1 megohm 22pf 2. Rise Time=10ns max. Sourse Impedance= 50 ohms

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(approx) (•)

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