







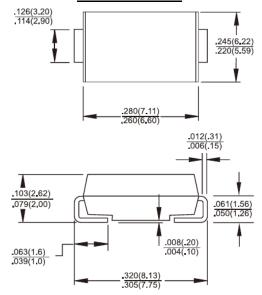
#### **Features**

- ♦ 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

# 4.0 AMPS. Surface Mount Rectifiers SMC/DO-214AB



## **Dimensions in inches and (millimeters)**

## Marking Diagram



S4X = Specific Device Code

G = Green Compound

Y = Year

M = Work Month

## **Maximum Ratings and Electrical Characteristics**

For capacitive load, derate current by 20%

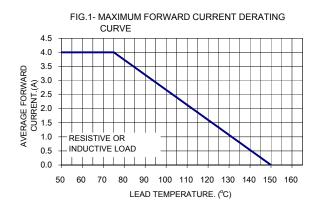
Type Number	Symbol	S4A	S4B	S4D	S4G	S4J	S4K	S4M	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>L</sub> =75°C	I <sub>F(AV)</sub>	4						Α	
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	100							Α
Maximum Instantaneous Forward Voltage (Note 1) @ 4 A	V <sub>F</sub>	1.15						V	
Maximum DC Reverse Current @ $T_A$ =25 $^{\circ}$ C at Rated DC Blocking Voltage @ $T_A$ =125 $^{\circ}$ C	I <sub>R</sub>	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	$R_{ heta JA}$	13 47						°C/W	
Operating Temperature Range	$T_J$	- 55 to + 150							οС
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150						οС	

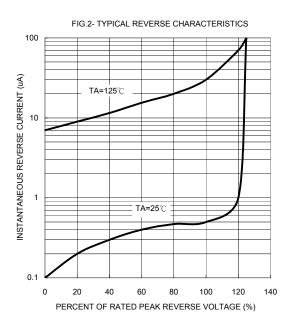
Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

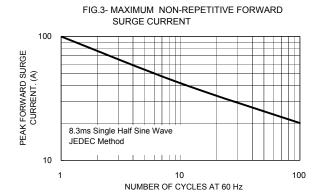
- 2. Reverse Recovery Test Conditions: I F=0.5A, IR=1.0A, IRR=0.25A
- 3. Measured at 1 MHz and Applied VR=4.0 Volts

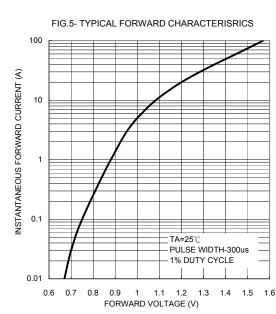


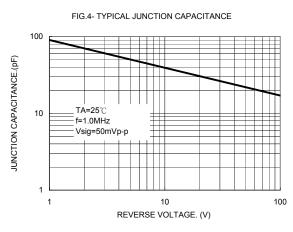
## RATINGS AND CHARACTERISTIC CURVES (S4A THRU S4M)



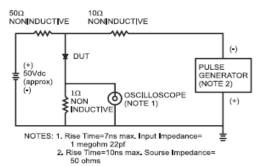


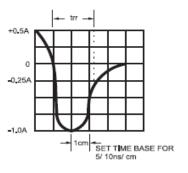












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