

S4A THRU S4M

4.0 AMPS. Surface Mount Rectifiers



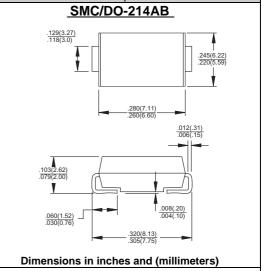
Voltage Range 50 to 1000 Volts Current 4.0 Amperes

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-O
- High temperature soldering:

Mechanical Data

- Case: Molded plasticTerminals: 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, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

To Supulity load, delate surrent by 2070									
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 _L =75°C	I _(AV)	4.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100							Α
Maximum Instantaneous Forward Voltage @ 4.0A	V _F	1.15							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	10.0 250							uA uA
Typical Thermal Resistance (Note 3)	$R\theta_{JL}$ $R\theta_{JA}$	13 47							C /W
Maximum Reverse Recovery Time (Note 1)	Trr	2.5							uS
Typical Junction Capacitance (Note 2)	Cj	60							рF
Operating Temperature Range	TJ	-55 to +150							Ą
Storage Temperature Range	T _{STG}	-55 to +150							Q

Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

- 2. Measured at 1 MHz and Applied V_R=4.0 Volts
- 3. Measured on P.C. Board with 0.6 x 0.6" (16 x 16mm) Copper Pad Areas.



