

S5A THRU S5M

5.0 AMPS. Surface Mount Rectifiers



Voltage Range 50 to 1000 Volts Current 5.0 Amperes

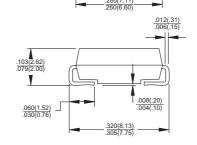
Features

- ♦ 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:
- ♦ 260°C / 10 seconds at terminals

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

SMC/DO-214AB .129(3.27) .118(3.0) .22



Dimensions in inches and (millimeters)

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%

Type Number	Symbol	S5A	S5B	S5D	S5G	S5J	S5K	S5M	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 (Note 1)	I _(AV)	5.0							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 @ 5.0A	V _F	1.15							٧
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 1)	$R heta_{JL} \ R heta_{JA}$	13 47						€ /W	
Typical Junction Capacitance (Note 2)	Cj	60						pF	
Operating Temperature Range	TJ	-55 to +150						J	
Storage Temperature Range	Tstg	-55 to +150						C	

Notes: 1. Measured on P.C. Board with 0.6 x 0.6" (16 x 16mm) Copper Pad Areas.

2. Measured at 1 MHz and Applied V_R =4.0 Volts



