

# RS3A THRU RS3M

3.0 AMPS. Fast Recovery Surface Mount Rectifiers

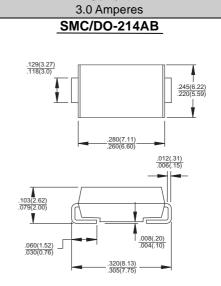


#### Features

- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- ♦ Fast switching for high efficiency
- High temperature soldering: 260<sup>o</sup>C /10 seconds at terminals

### **Mechanical Data**

- ♦ Cases: Molded plastic
- ♦ Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packing: 16mm tape per E1A STD RS-481
- ♦ Weight: 0.21 gram



Voltage Range 50 to 1000 Volts Current

#### Dimensions in inches and (millimeters)

## Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

Type Number	Symbol	RS 3A	RS 3B	RS 3D	RS 3G	RS 3J	RS 3K	RS 3M	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1 @TL=75°C	I <sub>(AV)</sub>	3.0							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	100							А
Maximum Instantaneous Forward Voltage @ 3.0A	$V_{F}$	1.3							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
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500					nS		
Typical Junction Capacitance (Note 2)	Cj	60							pF
	R ⊖ja	50.0 15.0							°C/W ເປັ
	Rθjl								
Operating Temperature Range	TJ	-55 to +150							C
Storage Temperature Range	TSTG	-55 to +150							°C

Notes: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A

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

3. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.3"x0.3" ( 8.0 x 8.0 mm ) Copper Pad Areas.



