# RS3A-RS3M

3.0AMPS. Surface Mount Fast Recovery 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-0
- ⊹ Fast switching for high efficiency ∻ High temperature soldering:
- 260°C /10 seconds at terminals

### **Mechanical Data**

- ∻ Cases: Molded plastic
- ∻ Terminals: Pure tin plated, Lead free.
- ∻ Polarity: Indicated by cathode band
- ∻ 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%

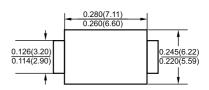
Type Number	Symbol	RS 3A	RS 3B	RS 3D	RS 3G	RS 3J	RS 3K	RS 3M	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1 @ $T_L=75^{\circ}C$	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							A
Maximum Instantaneous Forward Voltage @ 3.0A	V <sub>F</sub>	1.3							V
Maximum DC Reverse Current @ T <sub>A</sub> =25 °C at Rated DC Blocking Voltage @ T <sub>A</sub> =125 °C	I <sub>R</sub>	10 250							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500					00	nS	
Typical Junction Capacitance (Note 2)	Cj	60							pF
Typical Thermal Resistance (Note 3)	${\sf R}_{ heta {\sf J}{\sf A}} \ {\sf R}_{ heta {\sf J}{\sf L}}$	50 15							°C/W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

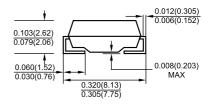
2. Measured at 1 MHz and Applied VR=4.0 Volts

3. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with

0.6" x 0.6" ( 16mm x 16 mm ) Copper Pad Areas.

### SMC/DO-214AB



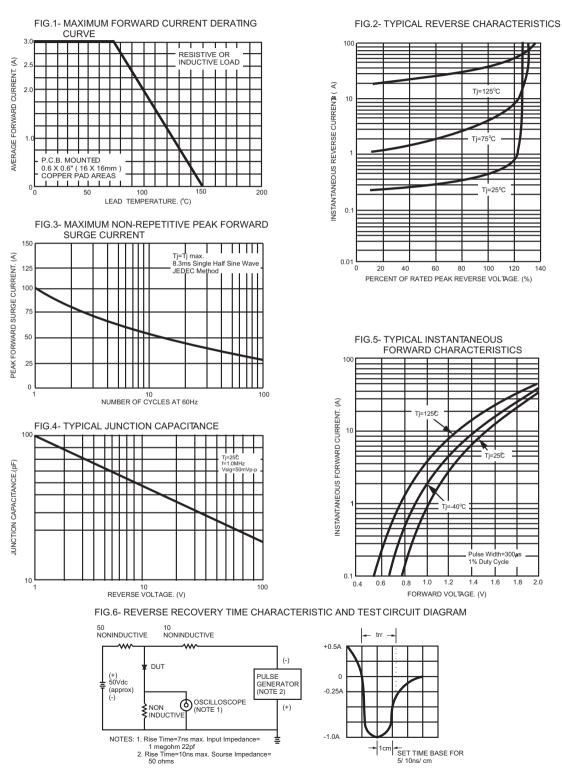


Dimensions in inches and (millimeters)

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#### RATINGS AND CHARACTERISTIC CURVES (RS3A THRU RS3M)



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