

# RS3A Thru RS3M



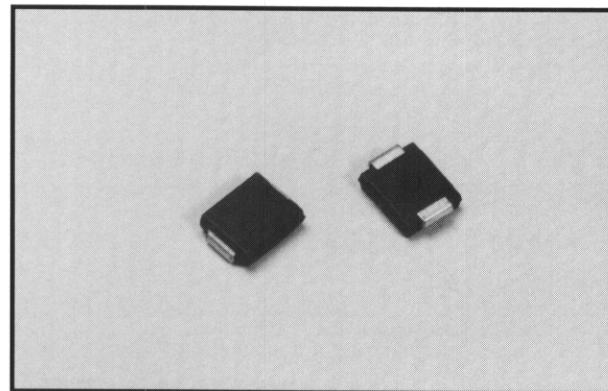
## 3 AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER

### ■ FEATURES

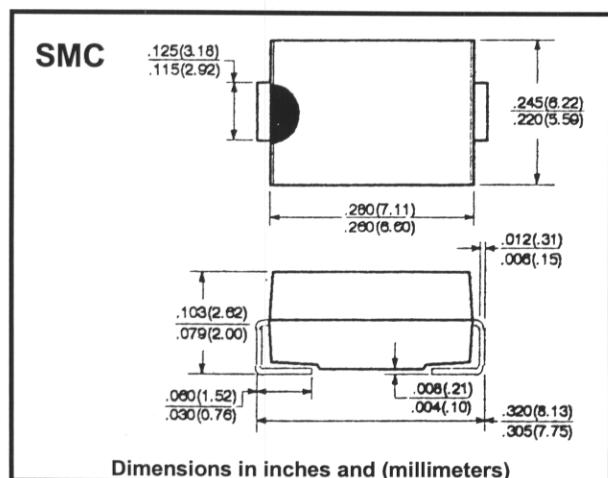
- Rating to 1000V PRV
- For surface mount application
- Reliable low cost construction utilizing molded plastic technique
- Glass passivated junction
- UL recognized 94V-O plastic material
- High temperature soldering: 250 °C/10 seconds at terminal
- Fast switching for high efficiency

### ■ Mechanical Data

- Case: Molded Plastic
- Polarity: Indicated on cathode
- Weight: 0.007 ounces, 0.21 grams



### ■ Outline Drawing



Dimensions in inches and (millimeters)

### ■ Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

		RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Input 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 Output Current @ T <sub>L</sub> = 75°C	I <sub>(AV)</sub>				3.0				A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>				100				A
Maximum DC Forward Voltage Drop Per Element At 3A DC	V <sub>F</sub>				1.3				V
Maximum Reverse Current At Rated DC Blocking Voltage per Element @ T <sub>A</sub> = 125°C	I <sub>R</sub>				5				µA
Maximum Reverse Recovery Time *(See Note)	t <sub>rr</sub>			150		250	500		nS
Typical Junction Capacitance **(See Note)	C <sub>J</sub>			50					pF
Typical Thermal Resistance***(See Note)	R <sub>(THJL)</sub>			10					°C/W
Typical Thermal Resistance***(See Note)	R <sub>(THJA)</sub>			50					°C/W
Operating Temperature Range	T <sub>J</sub>			-65 to +150					°C
Storage Temperature Range	T <sub>STG</sub>			-65 to +150					°C

Note: \*Test Conditions: IF = 0.5A, IR = 1.0A, Irr = 0.25A

\*\*Measured at 1.0MHz and applied reverse voltage of 4.0V DC