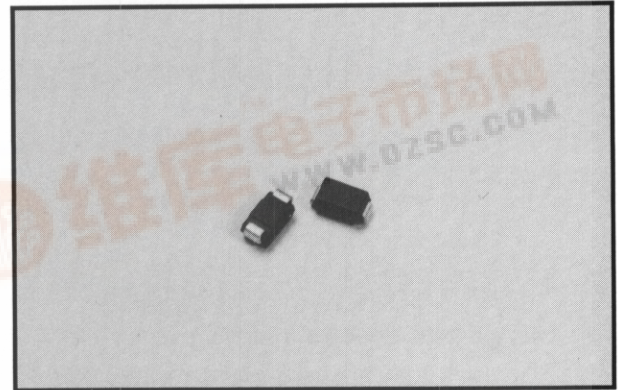




# RS1A Thru RS1M

## 1 AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER



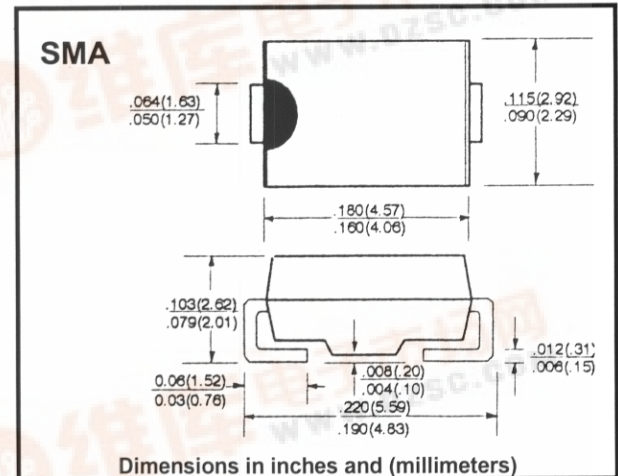
### FEATURES

- 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: 0.002 ounces, 0.064 grams

### Outline Drawing



### 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%

		RS1A	RS1B	RS1D	RS1G	RS1J	RS1K	RS1M	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> = 120°C	I <sub>(AV)</sub>					1.0			A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>					30			A
Maximum DC Forward Voltage Drop Per Element At 1.0A DC	V <sub>F</sub>					1.3			V
Maximum Reverse Current At Rated DC Blocking Voltage per Element	I <sub>R</sub>					5			μA
Maximum Reverse Recovery Time *(See Note)	t <sub>rr</sub>					200	250	500	nS
Typical Junction Capacitance **(See Note)	C <sub>J</sub>					15			pF
Maximum Thermal Resistance**(See Note)	R <sub>(THJL)</sub>					30			°C/W
Operating Temperature Range	T <sub>J</sub>					-65 to +150			°C
Storage Temperature Range	T <sub>STG</sub>					-65 to +150			°C

Notes: Test Conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>rr</sub> = 0.25A

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

