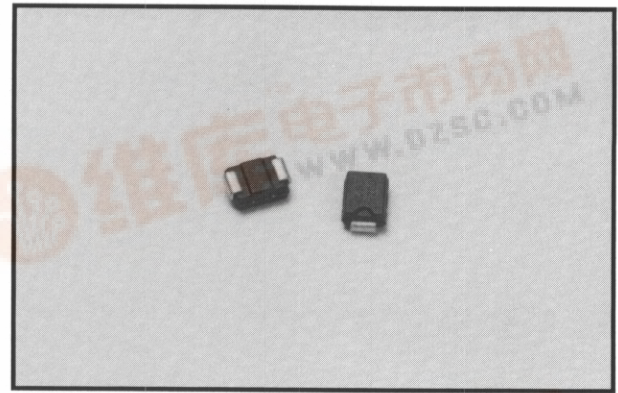




RS2A Thru RS2M

1.5 AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER



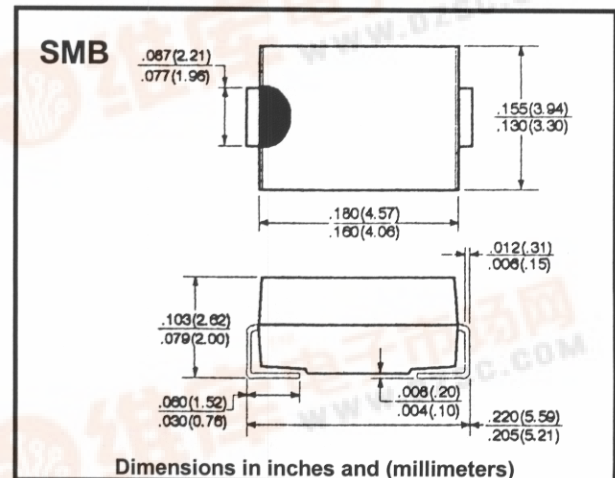
FEATURES

- 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: 0.003 ounces, 0.093 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%

		RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Units	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Input 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 Output Current @ $T_L = 120^{\circ}\text{C}$	$I_{(AV)}$	1.5							A	
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	50							A	
Maximum DC Forward Voltage Drop Per Element At 1.5A DC	V_F	1.3							V	
Maximum Reverse Current At Rated DC Blocking Voltage per Element @ $T_A = 25^{\circ}\text{C}$ @ $T_A = 125^{\circ}\text{C}$	I_R	5 200							μA μA	
Maximum Reverse Recovery Time *(See Note)	t_{rr}	150				250		500		nS
Typical Junction Capacitance **(See Note)	C_J	30							pF	
Maximum Thermal Resistance*** (See Note)	$R_{(THJL)}$	20							$^{\circ}\text{C/W}$	
Operating Temperature Range	T_J	-65 to +150							$^{\circ}\text{C}$	
Storage Temperature Range	T_{STG}	-65 to +150							$^{\circ}\text{C}$	

Note: Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$

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