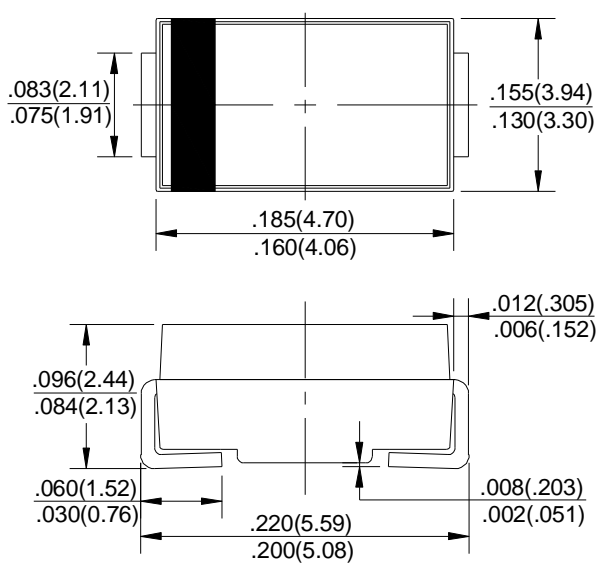


<p>SURFACE MOUNT GLASS FAST RECOVERY RECTIFIERS</p> <p>FEATURES</p> <ul style="list-style-type: none"> ● Fast switching for high efficiency ● Low cost ● Diffused junction ● Low reverse leakage current ● Low forward voltage drop ● High current capability ● The plastic material carries UL recognition 94V-0 <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> ● Case: Molded Plastic ● Polarity: Color band denotes cathode ● Weight: 0.003 ounces, 0.093 grams ● Mounting position: Any 	<p style="text-align: center;">REVERSE VOLTAGE - 50 to 1000 Volts FORWARD CURRENT - 2.0 Amperes</p> <p style="text-align: center;">SMB</p>  <p style="text-align: center;">Dimensions in inches and (millimeters)</p>
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @TA=75 °C	I(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	60							A
Peak Forward Voltage at 2.0A DC	VF	1.3							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR	5.0 100							uA
Maximum Reverse Recovery Time(Note 1)	TRR	150				250	500		ns
Typical Junction Capacitance (Note2)	CJ	30				20			pF
Typical Thermal Resistance (Note3)	RθJA	25							°C/W
Operating Temperature Range	TJ	-50 to +150							°C
Storage Temperature Range	TSTG	-50 to +150							°C

NOTES: 1. Measured with IF=0.5A, IR=1A, IRR=0.25A

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

3. Thermal resistance junction of ambient.

RATING AND CHARACTERISTIC CURVES

RS2A thru RS2M

FIG. 1 – FORWARD CURRENT DERATING CURVE

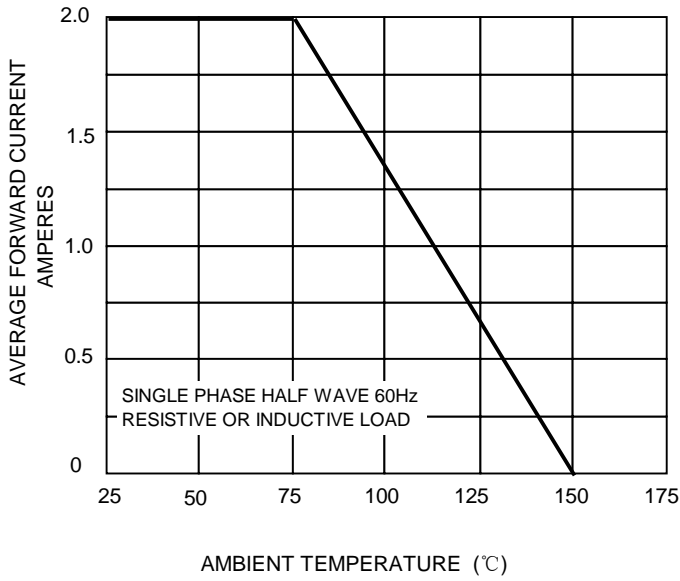


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

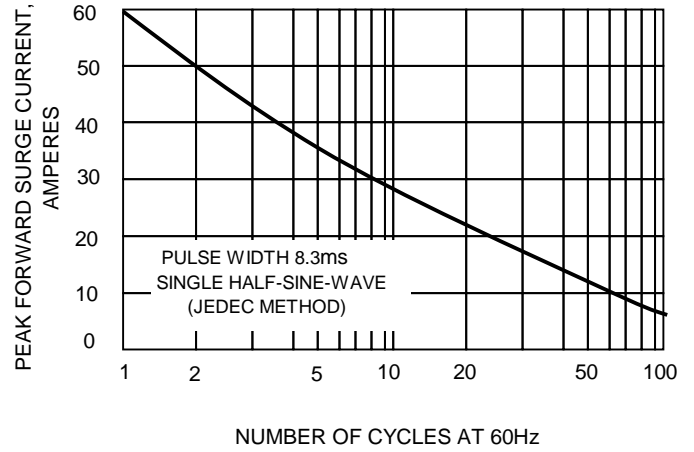


FIG.3 – TYPICAL JUNCTION CAPACITANCE

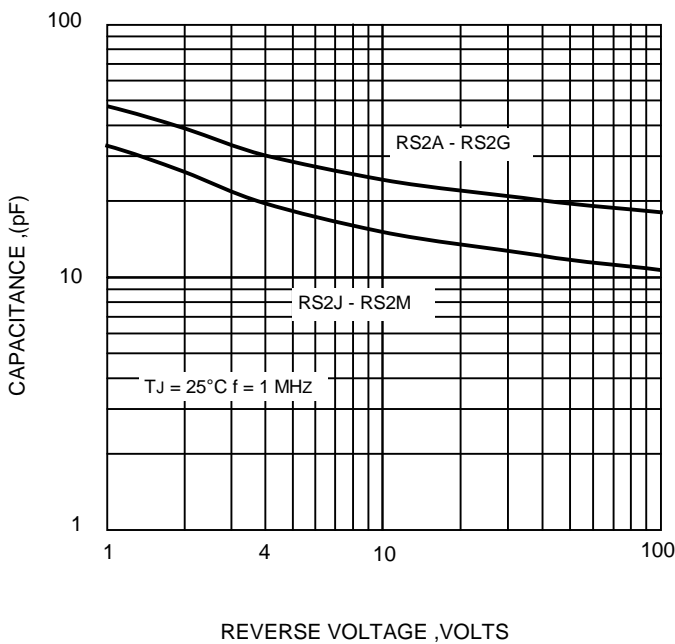


FIG.4-TYPICAL FORWARD CHARACTERISTICS

