

Glass/Silicon Passivated Rectifiers  
 Type PR - S2A Thru S2M  
 Reverse Voltage - 50 to 1000 Volts  
 Forward Current - 2.0 Amperes

**△ Features**

- Glass/Silicon Passivated Chip
- For surface mounted applications
- Low forward voltage drop
- Low reverse leakage current
- High current capability
- The plastic material carries UL flammability classification 94V-0

**△ Mechanical Data**

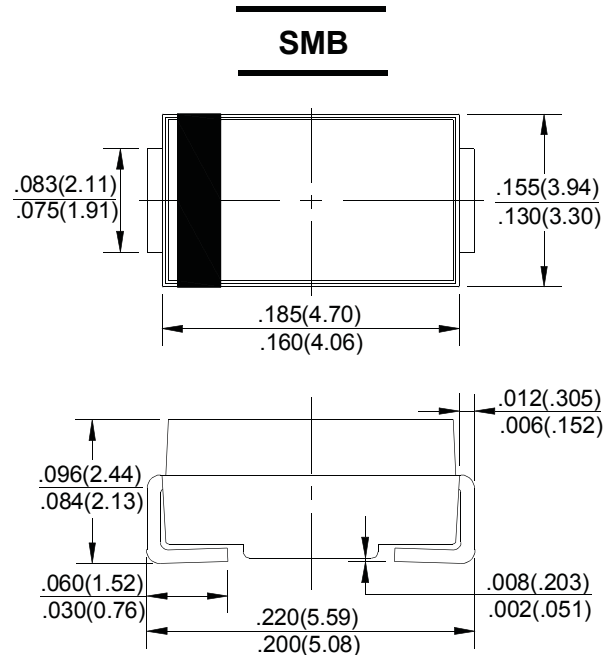
- Case: Molded plastic
- Polarity: Indicated by cathode band
- Weight: 0.002 ounces , 0.064 grams
- Mounting position: Any

**△ Maximum Ratings and Electrical Characteristics**

Ratings ar 25°C ambient temperature unless otherwise specified.

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

For capacitance load, derate current by 20%



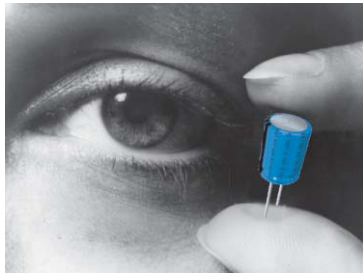
Dimensions in inches and (millimeters)

CHARACTERISTICS	SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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 @TL=100°C	I(AV)	2.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	IFSM	70							A
Maximum Forward Voltage at 2.0A DC	VF	1.0							V
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=100°C	IR	5.0							uA
Typical Junction Capacitance (Note1)	CJ	20							pF
Typical Thermal Resistance (Note2)	RθJL	20							°C /W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	TSTG	-55 to +150							°C

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance junction to lead.

Surface Mount Diodes



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Δ Rating and Characteristics Curves

FIG. 1 – FORWARD CURRENT DERATING

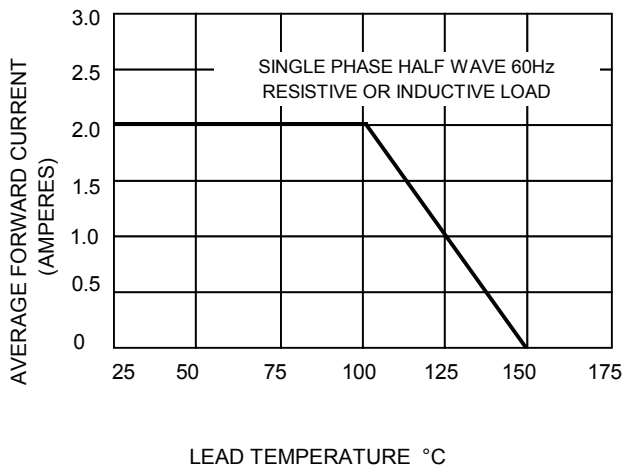


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

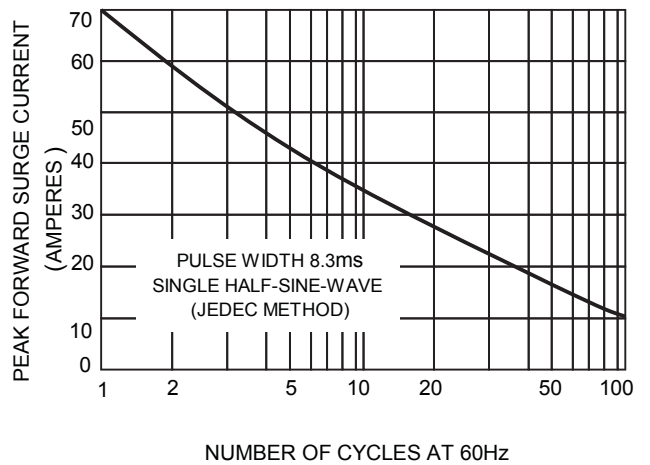


FIG.3-TYPICAL FORWARD CHARACTERISTICS

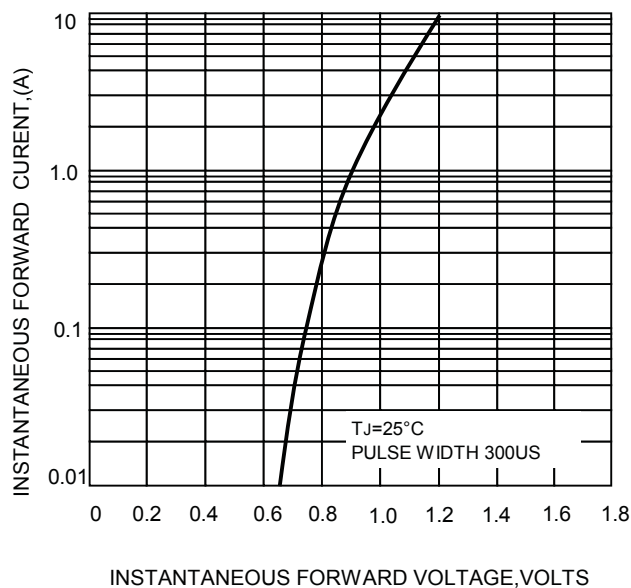


FIG.4-TYPICAL REVERSE CHARACTERISTICS

