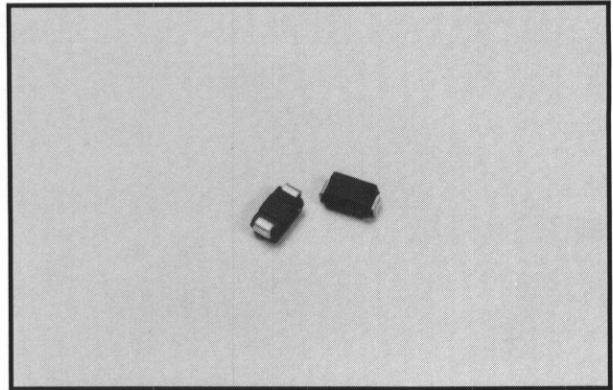


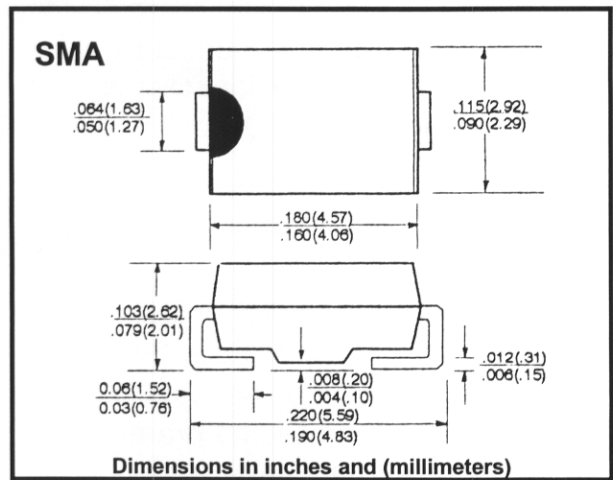
# S1A Thru S1M



## 1 AMP SURFACE MOUNT GLASS PASSIVATED SILICON RECTIFIER



### Outline Drawing



### FEATURES

- Rating to 1000V PRV
- For surface mount applications
- Reliable low cost construction utilizing molded plastic technique
- UL recognized 94V-O plastic material
- Lead solderable per MIL-STD-202 Method 208
- Surge overload rating to 30A peak

### Mechanical Data

- Case: Molded Plastic
- Polarity: Indicated on cathode
- Weight: 0.002 ounces, 0.064 grams

### 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%

		S1A	S1B	S1D	S1G	S1J	S1K	S1M	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 @ $T_L = 100^\circ\text{C}$	$I_{AV}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	$I_{FSM}$	30							A
Maximum DC Forward Voltage Drop Per Element At 1.0A DC	$V_F$	1.1							V
Maximum Reverse Current At Rated DC Blocking Voltage per Element	$I_R$	5 100							$\mu\text{A}$ $\mu\text{A}$
Typical Junction Capacitance *(See Note)	$C_J$	10							pF
Maximum Thermal Resistance** (See Note)	$R_{(THJL)}$	30							$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-65 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150							$^\circ\text{C}$

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

\*\*Thermal resistance junction to lead, measured on PC board with 5.0mm<sup>2</sup> X (0.013mm thick)