

# S1A THRU S1M

#### SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

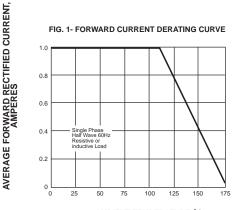
$\underbrace{\text{DO-214AC/SMA}}_{0.067 (1.70) \\ 0.051 (1.30) \\ \hline $	• • •	FEATURES • The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 • For surface mounted applications • Low reverse leakage • Built-in strain relief,ideal for automated placement • High forward surge current capability • High temperature soldering guaranteed: 250°C/10 seconds at terminals								
Dimensions in inches and (millimeters)	Te Me Po Mc We	MECHANICAL DATA Case: JEDEC DO-214AC molded plastic body Terminals: Solder plated, solderable per MIL-STD-750 Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight:0.002 ounce, 0.07 grams ELECTRICAL CHARACTERISTICS								
Ratings at 25°C ambient temperature unless otherwise sp Single phase half-wave 60Hz,resistive or inductive load,fo	ecified.						<u> </u>			
MDD Catalog Number	SYMBOLS	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNITS	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS	
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS	
Maximum DC blocking voltage	VICING	50	100	200	400	600	800	1000	VOLTS	
Maximum average forward rectified current at TL=110°C	l(AV)	1.0							Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	30.0							Amps	
Maximum instantaneous forward voltage at 1.0A	Vf	1.1							Volts	
Maximum DC reverse current Ta=25°C		5.0 50.0						μΑ		
at rated DC blocking voltage Ta=100°C	lr									
Typical junction capacitance (NOTE 1)	CJ	15.0							pF	
Typical thermal resistance (NOTE 2)	Reja	75.0							°C/W	
Operating junction and storage temperature range	TJ.TSTG	-50 to +150							°C	

**Note:**1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

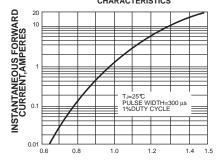
### MDD ELECTRONIC

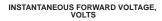
### **RATINGS AND CHARACTERISTIC CURVES S1A THRU S1M**

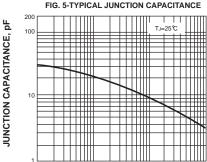


AMBIENT TEMPERATURE,°C









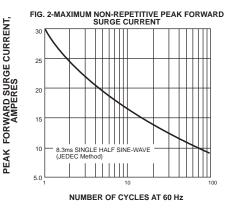
1.0

10

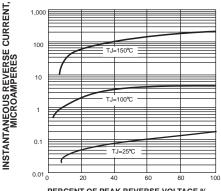
**REVERSE VOLTAGE, VOLTS** 

100

0.1









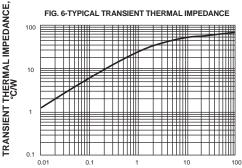
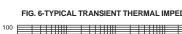


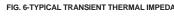






FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE









MDD ELECTRONIC

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