



## **FEATURES**

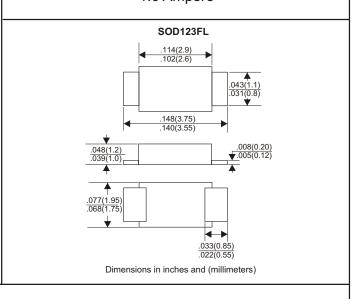
- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* High surge current capability

### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

# VOLTAGE RANGE 50 to 1000 Volts CURRENT

1.0 Ampere



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	S1A	S1B	S1E	S10	;	S1J	S1K	S1M	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	20	) 40	0	600	800	1000	V
Maximum RMS Voltage		70	14	) 28	0	420	560	700	V
Maximum DC Blocking Voltage		100	20	) 40	0	600	800	1000	V
Maximum Average Forward Rectified Current		•		•				•	
at Ta=75°C		1.0							
Peak Forward Surge Current, 8.3 ms single half s	ine-wave								
superimposed on rated load (JEDEC method)		30							
Maximum Instantaneous Forward Voltage at 1.0A		11							
Maximum DC Reverse Current Ta=2	:5℃			5.	Ó				μА
at Rated DC Blocking Voltage Ta=1	00℃	50					μА		
Typical Junction Capacitance (Note 1)		15							
Typical Thermal Resistance R JA (Note 2)		80							
Operating and Storage Temperature Range Тл, Тsтс		-65—+150							
Marking Code									

- NOTES:
- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient.

#### RATING AND CHARACTERISTIC CURVES (S1A THRU S1M)

FIG.1-TYPICAL FORWARD

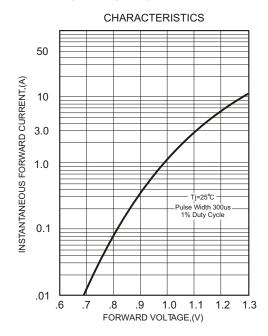


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

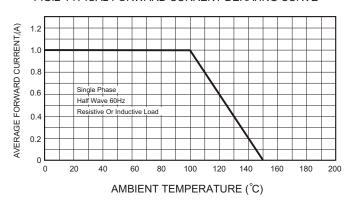


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

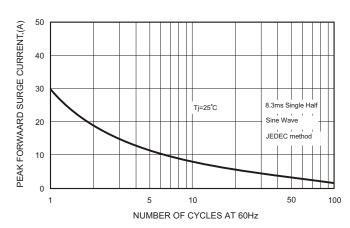


FIG.3 - TYPICAL REVERSE

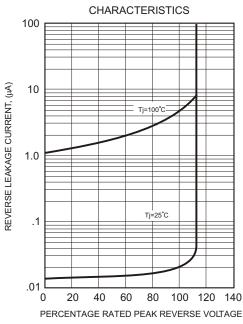


FIG.5-TYPICAL JUNCTION CAPACITANCE

