# DC COMPONENTS CO., LTD.

### **RECTIFIER SPECIALISTS**

S1AF THRU S1MF

## TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

#### **FEATURES**

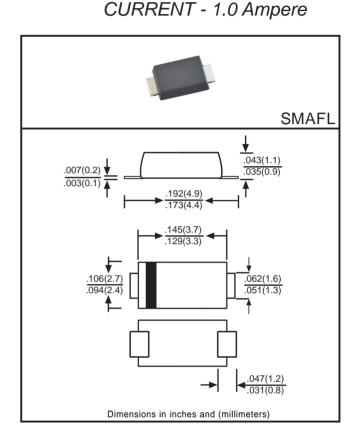
- \* Ideal for surface mounted applications
- \* Glass passivated junction
- \* Low leakage current

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rated flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.03 gram approx.

#### MAXIMUM RATINGS AND ELECTRICAL 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%.



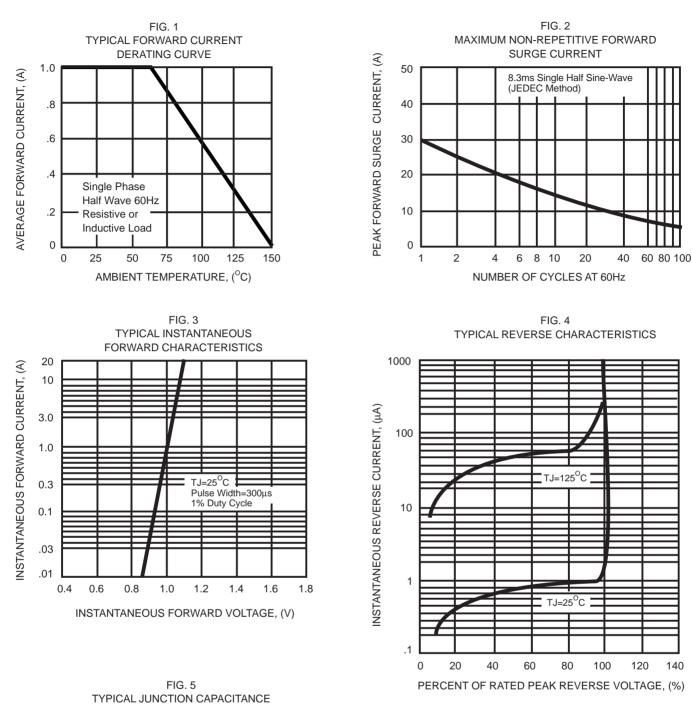
		SYMBOL	S1AF	S1BF	S1DF	S1GF	S1JF	S1KF	S1MF	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 65°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ifsm	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T <sub>A</sub> =25 <sup>°</sup> C	lr	5.0							μAmps
	@ T <sub>A</sub> =100 <sup>°</sup> C		50							
Typical Junction Capacitance (Note 1)		CJ	15							pF
Typical Thermal Resistance (Note 2)		R <sub>0</sub> j a	105							°C/W
Operating and Storage Temperature Range		Tj,Tstg	-55 to +150							°C

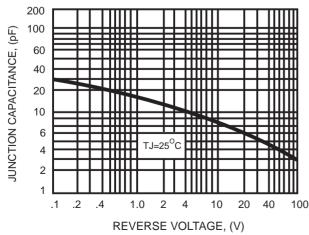
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Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

Note 2: Typical thermal resistance from junction to ambient.

## **RATING AND CHARACTERISTIC CURVES (S1AF THRU S1MF)**





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