# DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

S1AFL THRU S1MFL

## TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

#### FEATURES

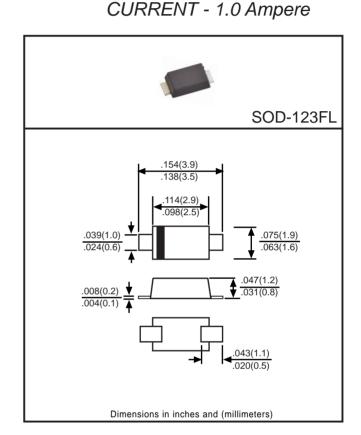
- \* Ideal for surface mounted applications
- \* Glass passivated junction
- \* Low leakage current
- \* Low forward voltage drop
- \* High forward surge capability

### **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: 0.017 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%.

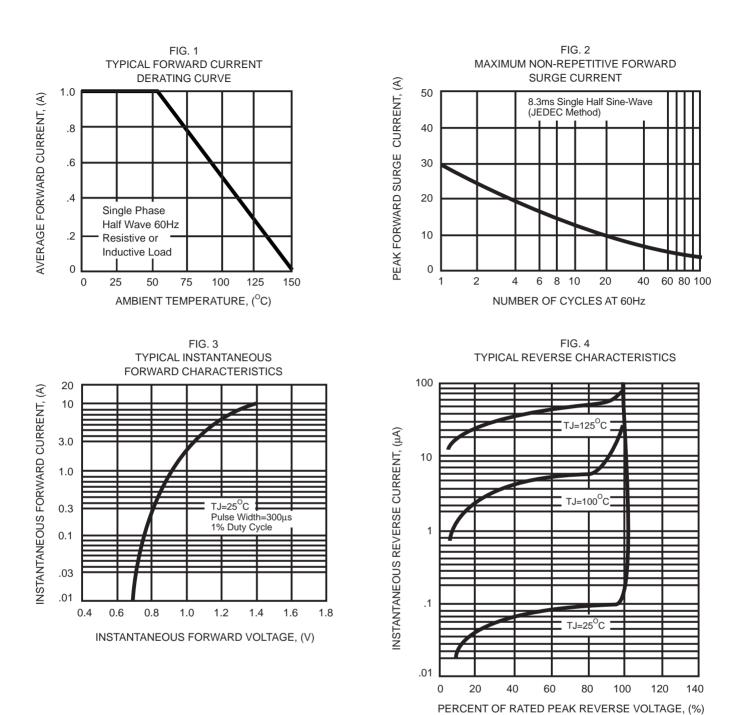


	SYMBOL	S1AFL	S1BFL	S1DFL	S1GFL	S1JFL	S1KFL	S1MFL	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at $T_A = 55^{\circ}C$	lo	1.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.1						Volts	
Maximum DC Reverse Current at Rated @ TA=25°C	; IR	5.0 50							μAmps
DC Blocking Voltage @ T <sub>A</sub> =100 <sup>c</sup>	C								
Typical Thermal Resistance (Note 1)	R <sub>0</sub> J A	150				°C/W			
Operating and Storage Temperature Range	Тј,Тѕтс	-55 to +150				°C			

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Note 1: Typical thermal resistance from junction to ambient.

## **RATING AND CHARACTERISTIC CURVES (S1AFL THRU S1MFL)**



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