## DC COMPONENTS CO., LTD.

## **RECTIFIER SPECIALISTS**

# THRU S07MFL

S07AFL

## TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

#### **FEATURES**

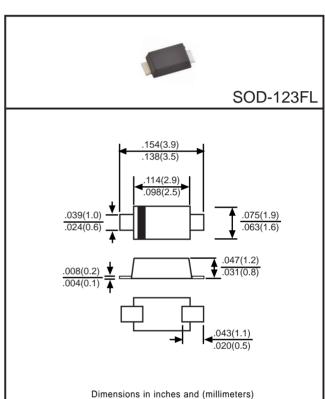
- \* Ideal for surface mounted applications
- \* Glass passivated junction
- \* Low leakage current
- \* Low forward voltage drop
- \* High forward surge capability

#### **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%.

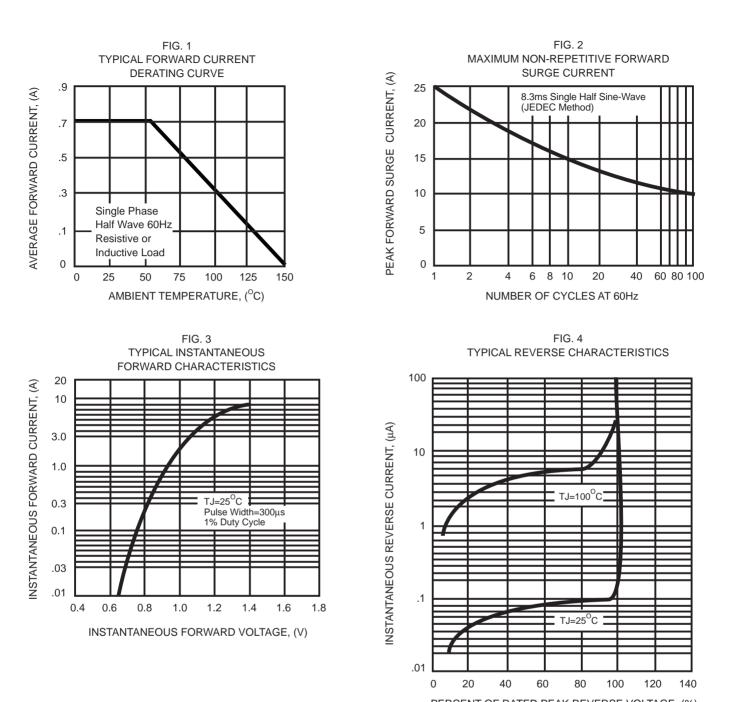


	SYMBOL	S07AFL	S07BFL	S07DFL	S07GFL	S07JFL	S07KFL	S07MFL	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 55°C	lo	0.7							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	Іғѕм	25							Amps
Maximum Instantaneous Forward Voltage at 0.7A DC	VF	1.1							Volts
Maximum DC Reverse Current at Rated @ T <sub>A</sub> =25°C		5.0 50							μAmps
DC Blocking Voltage @ T <sub>A</sub> =100°C	- IR								
Typical Thermal Resistance (Note 1)	R <sub>0J</sub> A	150					°C/W		
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150						°C	

Note 1: Typical thermal resistance from junction to ambient.

CURRENT - 0.7 Ampere

## RATING AND CHARACTERISTIC CURVES (S07AFL THRU S07MFL)



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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