

# DC COMPONENTS CO., LTD.

## RECTIFIER SPECIALISTS

SF03AFL **THRU** SF03JFL

# TECHNICAL SPECIFICATIONS OF SUPER FAST SURFACE MOUNT GLASS PASSIVATED RECTIFIER VOLTAGE RANGE - 50 to 600 Volts

# **FEATURES**

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

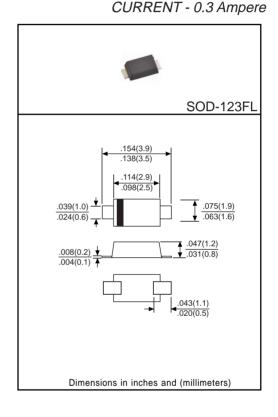
### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \*Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- \* Polarity: As marked
- Mounting position: Any
- \* Weight: 0.017 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

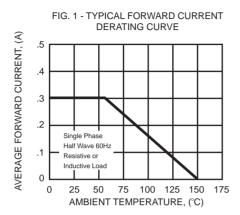


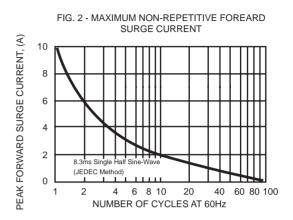
		SYMBOL	SF03AFL	SF03BFL	SF03CFL	SF03DFL	SF03EFL	SF03GFL	SF03JFL	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		VRMS	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current		lo	0.3							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	10						Amps	
Maximum Forward Voltage at 0.3A DC		VF	0.95 1.25				1.70	Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	l <sub>R</sub>	5.0							uAmps
	@T <sub>A</sub> = 125°C	IK	100							
Maximum reverse recovery time at IF = 0.5A, IR = 1.0A, Irr = 0.25A		trr	35						nS	
Typical thermal resistance		Reja	60							°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to + 150							°C

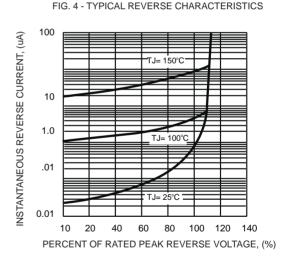
NOTES: 1. Mounted on FR-4 P.C.B. with 0.9X1.5 mm copper pads areas.

REV-3,MAR,2017 www.dccomponents.com

## RATING AND CHARACTERISTIC CURVES (SF03AFL THRU SF03JFL)







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