# DC COMPONENTS CO., LTD. SF2AFL RECTIFIER SPECIALISTS THRU SF2JFL

# TECHNICAL SPECIFICATIONS OF SUPER FAST SURFACE MOUNT GLASS PASSIVATED RECTIFIER

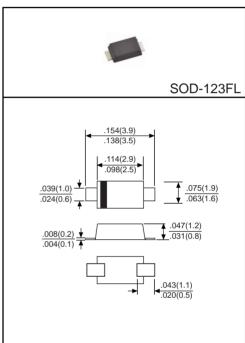
# VOLTAGE RANGE - 50 to 600 Volts

### **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



Ratings at 25 °C ambient temperature unless otherwise specified.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



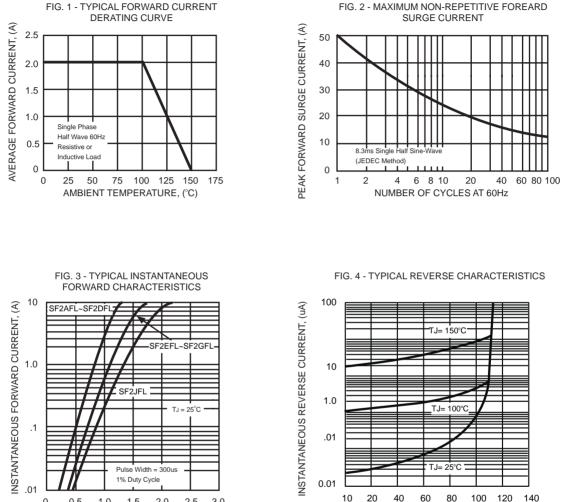
		SYMBOL	SF2AFL	SF2BFL	SF2CFL	SF2DFL	SF2EFL	SF2GFL	SF2JFL	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		Vrms	35	70	11	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current		lo	2.0						Amps	
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	50						Amps	
Maximum Forward Voltage at 2.0A DC		Vf	0.95 1.25 1.70				1.70	Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C @TA = 125°C	IR	5.0							uAmps
Maximum reverse recovery time at IF = 0.5A , IR = 1.0A , Irr = 0.25A		trr	35						nS	
Typical thermal resistance		Reja	150							°C/W
Operating and Storage Temperature Range		TJ. TSTG	-55 to + 150							٥C

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

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CURRENT - 2.0 Amperes

# RATING AND CHARACTERISTIC CURVES (SF2AFL THRU SF2JFL)



0 0.5 1.0 1.5 2.0 2.5 3.0 INSTANTANEOUS FORWARD VOLTAGE, (V)

PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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