

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SF1AFL THRU SF1JFL

TECHNICAL SPECIFICATIONS OF SUPER FAST SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE RANGE - 50 to 600 Volts

CURRENT - 1.0 Ampere

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

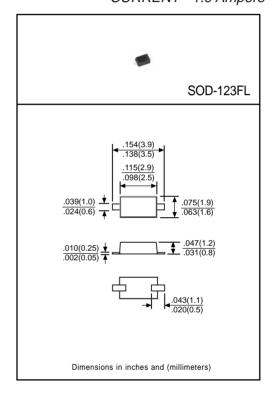
MIL-STD-750. Method 2026

* Polarity: As marked * Mounting position: Any * Weight: 0.017 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

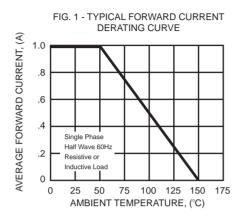
For capacitive load, derate current by 20%.



		SYMBOL	SF1AFL	SF1BFL	SF1CFL	SF1DFL	SF1EFL	SF1GFL	SF1JFL	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	1.0							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	25						Amps	
Maximum Forward Voltage at 1.0A DC		VF	0.95 1.25 1.70				1.70	Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Ta = 25°C	l _R	5.0							uAmps
	@T _A = 125°C	IK	150							
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.

RATING AND CHARACTERISTIC CURVES (SF1AFL THRU SF1MFL)



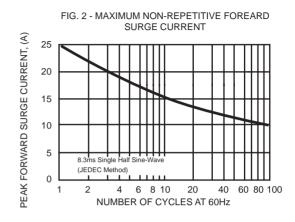


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

(4) 10 SF1EFL-SF1DFL SF1EFL-SF1GFL TJ = 25°C TJ =

