DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

FR03AFL THRU FR03MFL

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER

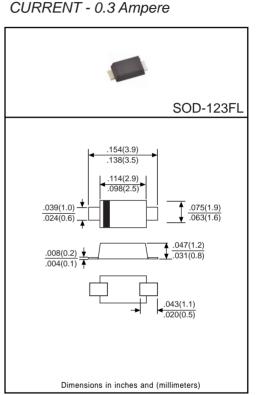
VOLTAGE RANGE - 50 to 1000 Volts

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



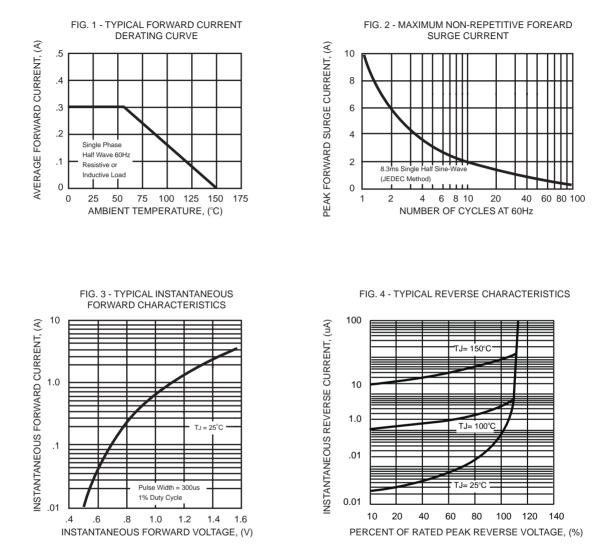
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

		SYMBOL	FR03AFL	FR03BFL	FR03DFL	FR03GFL	FR03JFL	FR03KFL	FR03MFL	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		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	1.3							Volts
Maximum DC Reverse Current at	@TA = 25°C	IR	5.0							uAmps
Rated DC Blocking Voltage	@TA = 125°C	IK	50							
Maximum reverse recovery time at IF = 0.5A , IR = 1.0A , Irr = 0.25A		trr	150		250	500		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.

RATING AND CHARACTERISTIC CURVES (FR03AFL THRU FR03MFL)



REV-3,MAR,2017

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