

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

FR05AFL THRU FR05MFL

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 0.5 Ampere

FEATURES

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

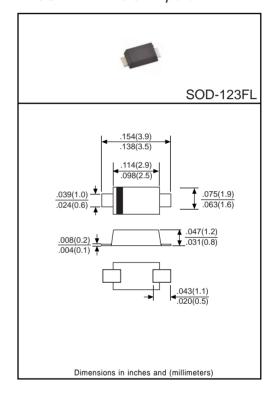
MECHANICAL DATA

- * 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 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

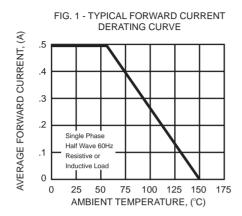


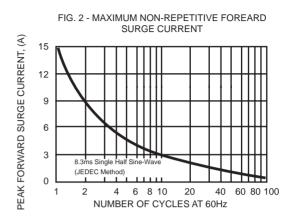
		SYMBOL	FR05AFL	FR05BFL	FR05DFL	FR05GFL	FR05JFL	FR05KFL	FR05MFL	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current		lo	0.5							Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)		IFSM	15							Amps
Maximum Forward Voltage at 0.5A DC		VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@Ta = 25°C	IR	5.0 50							uAmps
	@T _A = 125°C	IK.								
Maximum reverse recovery time at IF = 0.5A, IR = 1.0A, Irr = 0.25A		trr	150			250	500		nS	
Typical thermal resistance		Reja	180							°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to + 150							°C

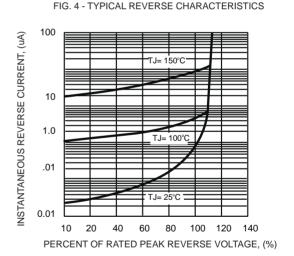
NOTES: 1. Mounted on FR-4 P.C.B. with 0.9X1.5 mm copper pads areas.

REV-3,MAR,2017 1 www.dccomponents.com

RATING AND CHARACTERISTIC CURVES (FR05AFL THRU FR05MFL)







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