

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

S2AFL THRU S2MFL

TECHNICAL SPECIFICATIONS OF GENERAL PRUPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 2.0 Amperes

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 94-V0 rate flame retardant

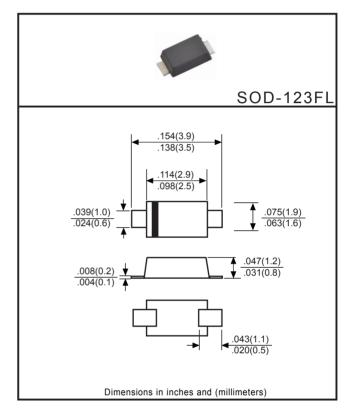
* Lead: MIL-STD-202E, Method 208 guaranteed

* Polarity: Color band denotes cathode end

* 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, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

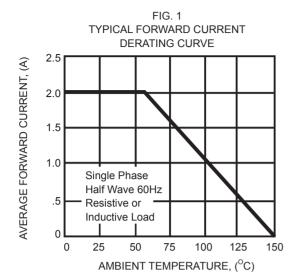


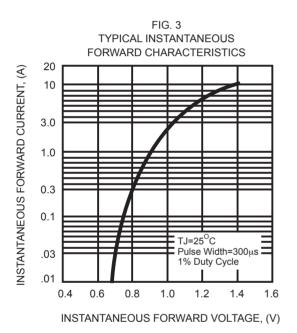
		SYMBOL	S2AFL	S2BFL	S2DFL	S2GFL	S2JFL	S2KFL	S2MFL	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C		lo	2.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50							Amps
Maximum Instantaneous Forward Voltage at 2.0 A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TJ = 25°C	lr	5.0							μAmps
DC Blocking Voltage	@TJ = 125°C		100							
Typical Thermal Resistance (Note 1)		RθJA	150							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150							°C

Note 1 :Typical thermal resistsnce from junction to ambient.

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RATING AND CHARACTERISTIC CURVES (S2AFL THRU S2MFL)





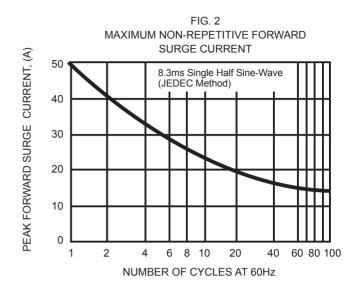
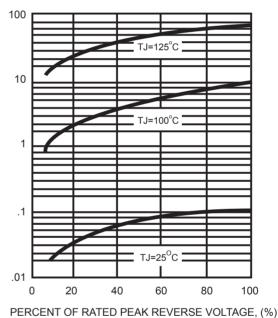


FIG. 4
TYPICAL REVERSE CHARACTERISTICS



I ENOUNT OF NATED I LANTILVENSE VOLTAGE, (70)

INSTANTANEOUS REVERSE CURRENT, (µA)

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