DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

S03AFL THRU S03MFL

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

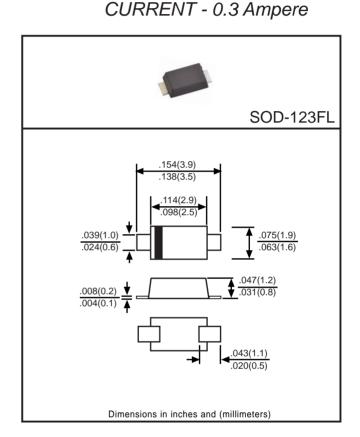
- * Ideal for surface mounted applications
- * Glass passivated junction
- * Low leakage current
- * Low forward voltage drop
- * High forward surge capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rated flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.017 gram approx.

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%.

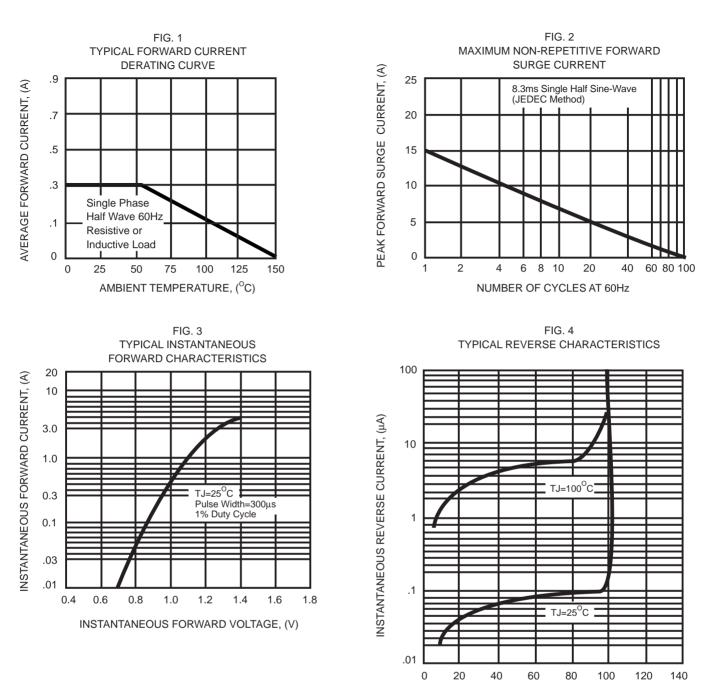


	SYMBOL	S03AFL	S03BFL	S03DFL	S03GFL	S03JFL	S03KFL	S03MFL	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	; lo	0.3							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	15						Amps	
Maximum Instantaneous Forward Voltage at 0.3A DC	VF	1.1					Volts		
Maximum DC Reverse Current at Rated @ TA=25°C		5.0 50							μAmps
DC Blocking Voltage @ T _A =100°C									
Typical Thermal Resistance (Note 1)	R ₀ j a				150				°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150					°C		

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Note 1: Typical thermal resistance from junction to ambient.

RATING AND CHARACTERISTIC CURVES (S03AFL THRU S03MFL)



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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