

# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

S1ABF THRU S1MBF

# TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

#### **FEATURES**

- \* Ideal for surface mounted applications
- \* Glass passivated junction
- \* Low leakage current

#### **MECHANICAL DATA**

\* Case: Molded plastic

\* Epoxy: UL 94V-0 rated flame retardant

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

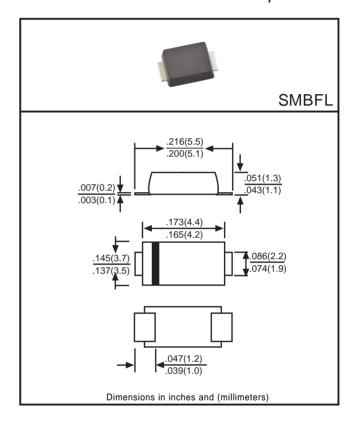
\* Polarity: Color band denotes cathode end

\* Mounting position: Any

\* Weight: 0.06 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%.



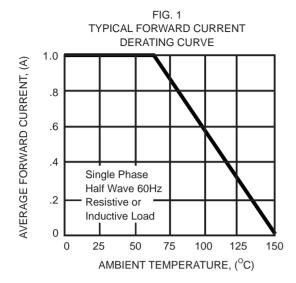
		SYMBOL	S1ABF	S1BBF	S1DBF	S1GBF	S1JBF	S1KBF	S1MBF	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T <sub>A</sub> = 65°C		lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігѕм	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T <sub>A</sub> =25°C	lr	5.0							μAmps
	@ T <sub>A</sub> =100°C		50							
Typical Junction Capacitance (Note 1)		Сл	15							pF
Typical Thermal Resistance (Note 2)		Rөла	105							°C/W
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150							°C

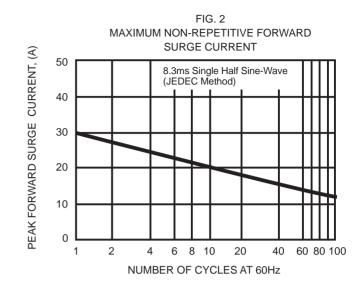
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

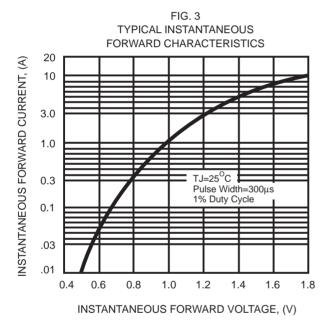
Note 2: Typical thermal resistance from junction to ambient.

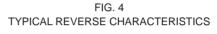
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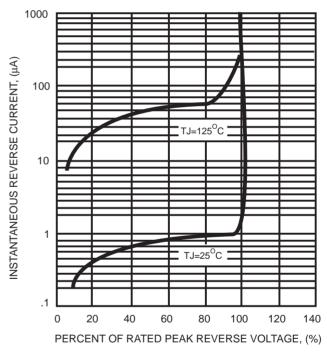
## RATING AND CHARACTERISTIC CURVES (S1ABF THRU S1MBF)

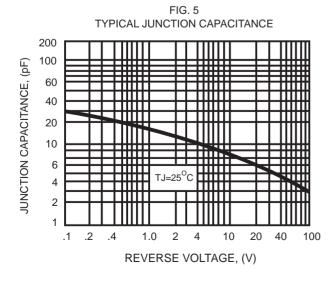












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