# DC COMPONENTS CO., LTD.

### RECTIFIER SPECIALISTS

# THRU S2MBF

S2ABF

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

#### **FEATURES**

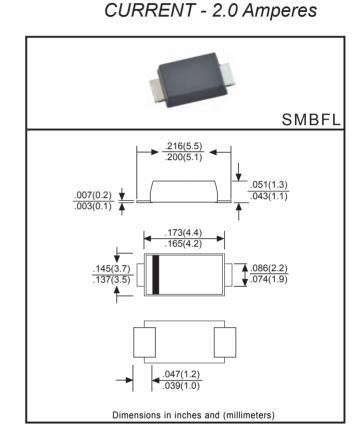
- \* Ideal for surface mounted applications
- \* Glass passivated junction
- \* Low leakage current
- \* Low forward voltage drop
- \* High surge capability

#### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94-V0 rate flame retardant
- \* Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- \* Polarity: As marked
- \* Mounting position: Any
- \* Weight: 0.03 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%.

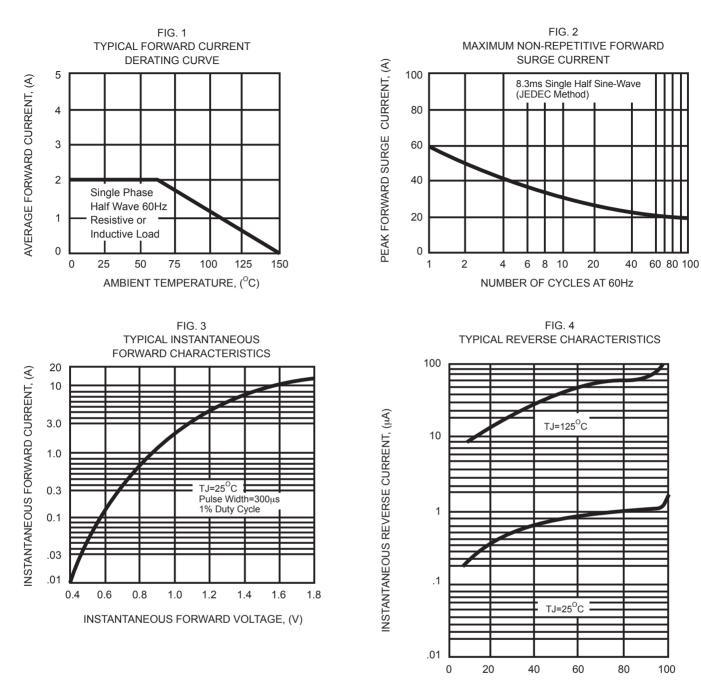


	SY	MBOL	S2ABF	S2BBF	S2DBF	S2GBF	S2JBF	S2KBF	S2MBF	UNITS
Maximum Recurrent Peak Reverse Voltage		/RRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		/RMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 65 <sup>o</sup> C		lo	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	60						Amps	
Maximum Instantaneous Forward Voltage at 2.0A DC		VF	1.1						Volts	
Maximum DC Reverse Current at Rated @TJ =		lr	5.0							μAmps
DC Blocking Voltage @TJ =	125 C		100							
Typical Junction Capacitance (Note 1)		С	30						pF	
Typical Thermal Resistance (Note 2)		R <sub>θ</sub> JA	55						°C/W	
Operating and Storage Temperature Range		I,TSTG	-55 to +150						°C	

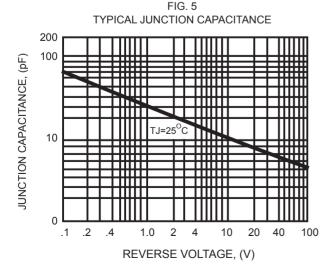
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Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts. Note 2 :Typical thermal resistsnce from junction to ambient.

## **RATING AND CHARACTERISTIC CURVES (S2ABF THRU S2MBF)**







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