

S52BF THRU S520BF

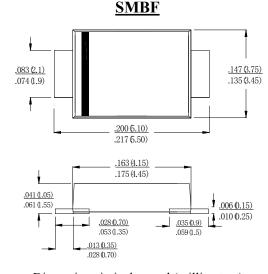
5.0AMPS. SCHOTTKY BARRIER RECTIFIERS

FEATURE

- . For surface mounted application
- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge current capability
- . High temperature soldering guaranteed: 260° C/10 seconds at terminals.

MECHANICAL DATA

- . Terminal: Solder plated
- . Case: Molded with UL-94 Class V-0 recognized
- Flame Retardant Epoxy
- . Polarity: color band denotes cathode
- . Packaging:12mm tape per EIA STD RS-481



Dimensions in inches and (millimeters)

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%

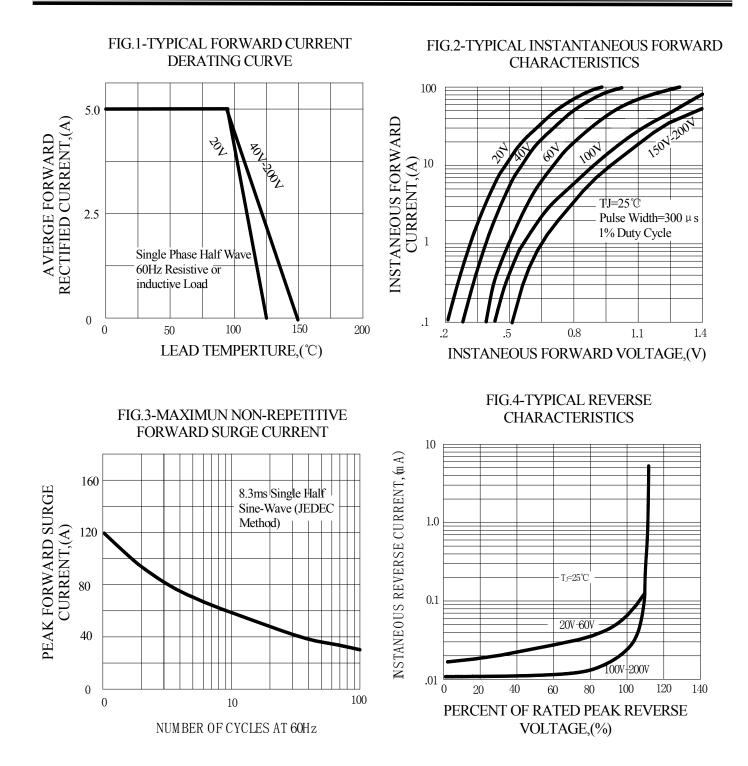
Type Number	SYMBOL	S52BF	S54BF	S56BF	S510BF	S515BF	S520BF	units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	100	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	42	70	105	140	V
Maximum DC blocking Voltage	V _{DC}	20	40	60	100	150	200	V
Maximum Average Forward Rectified Current at T_L =90°C	I _{F(AV)}	5.0						А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I _{FSM}	120.0						А
Maximum Forward Voltage at 5.0A DC	$V_{ m F}$	0.45	0.55	0.70	0.85	0.95		V
Maximum DC Reverse Current $@T_A = 25^{\circ}C$ at rated DC blocking voltage $@T_A = 100^{\circ}C$	I _R	0.5 40.0			0.1 10.0			mA
Typical Junction Capacitance (Note1)	CJ	500			112			pF
Typical Thermal Resistance (Note 2)	R (JA) R (JL)	55 18						°C/W
Storage Temperature	T _{STG}	-55 to +150						°C
Operation Junction Temperature	TJ	-55 to +125 -55 to +150					°C	

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

2. Thermal Resistance from Junction to Ambient and Lead, Mounted Measured on P.C. Board with 0.2×0.2" (5.0×5.0mm) Copper Pad Areas.

RATING AND CHARACTERISTIC CURVES (S52BF THRU S520BF)



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