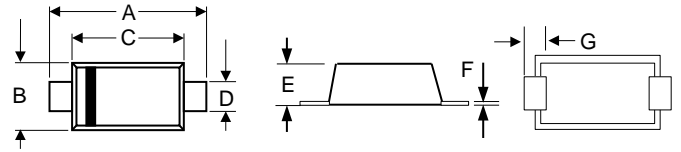


SS52BF THRU SS520BF

5.0 Amp. Surface Mount Schottky Barrier Rectifiers

Features

- * Low power loss, high efficiency
- * Ideal for automated placement
- * Guardring for overvoltage protection
- * High surge current capability
- * High Temp Soldering: 260°C for 10seconds at Terminals



RoHS
COMPLIANT



SMBF				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.201	0.217	5.10	5.50
B	0.138	0.146	3.5	3.7
C	0.165	0.173	4.2	4.4
D	0.075	0.087	1.90	2.20
E	0.043	0.051	1.10	1.30
F	0.007	0.010	0.18	0.26
G	0.031	0.047	0.80	1.20

Mechanical Data

- * Case: SMBF Molded plastic
- * Terminals: Solderable per MIL-STD-750, Method 2026
- * Polarity: Indicated by cathode band

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

Type Number	Symbols	SS52 BF	SS54 BF	SS545 BF	SS56 BF	SS58 BF	SS510 BF	SS512 BF	SS515 BF	SS520 BF	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	45	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	32	42	56	70	84	105	140	V
Maximum D.C Blocking Voltage	V _{DC}	20	40	45	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5.0									A
Peak Forward Surge Current, 8.3ms single half sine-wave	I _{FSM}	150									A
Maximum Instantaneous Forward Voltage at 5.0A	V _F	0.55			0.70		0.85			V	
Maximum D.C Reverse Current @ T _J =25°C at Rated D.C Blocking Voltage @ T _J =125°C	I _R	0.5 5									mA
Typical Junction Capacitance(Note1)	C _J	800			500						pF
Typical thermal resistance (Note2)	R _{θJA}	45									°C/W
Operating and Storage Temperature Range	T _J / T _{STG}	-55 to +150									°C

Note 1: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Note 2: P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Ratings and Characteristic Curves

Fig.1 Forward Current Derating Curve

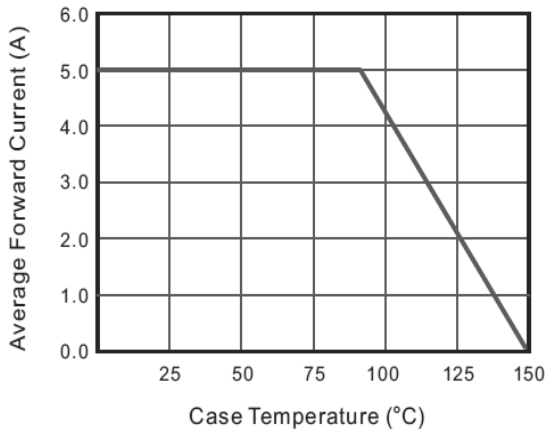


Fig.2 Typical Reverse Characteristics

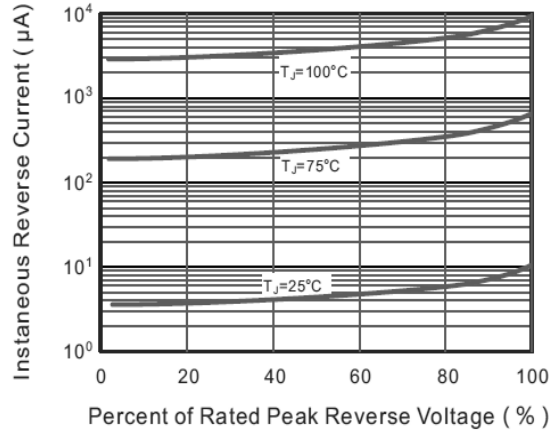


Fig.3 Typical Forward Characteristic

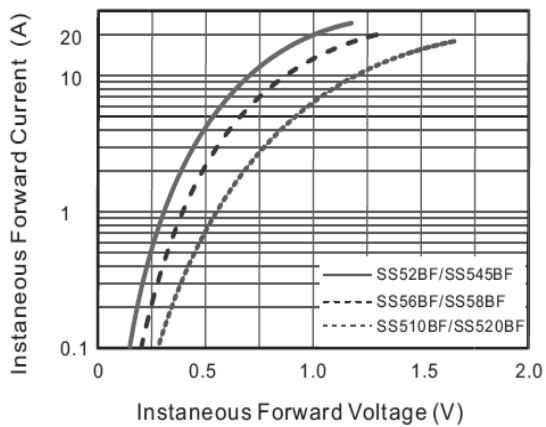


Fig.4 Typical Junction Capacitance

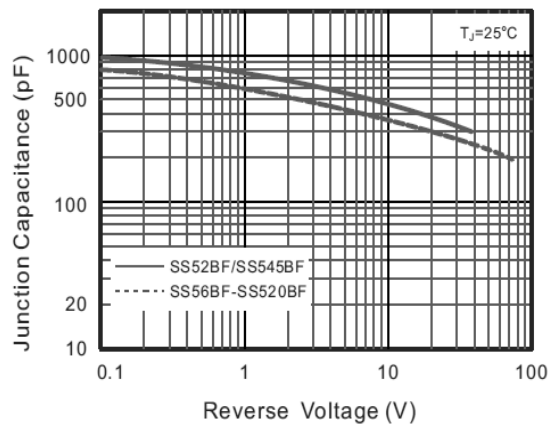


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

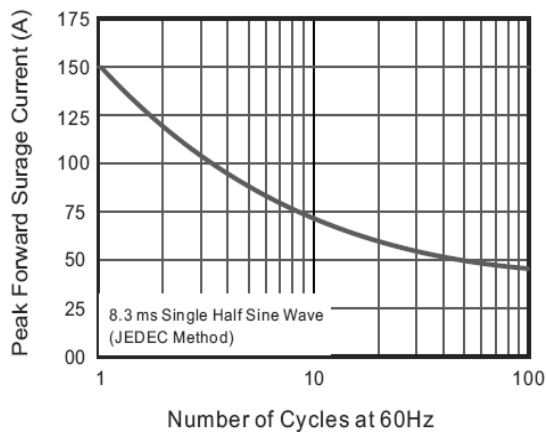
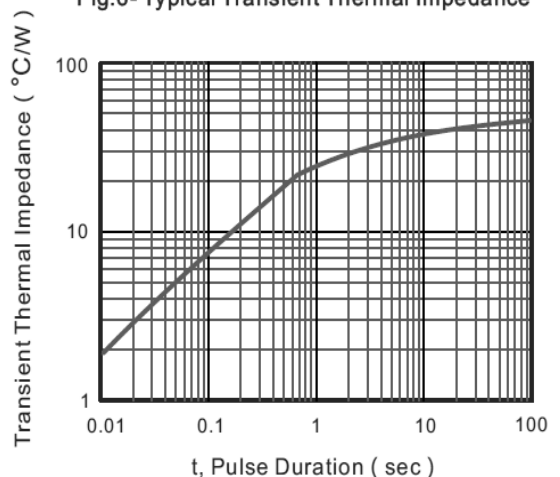


Fig.6- Typical Transient Thermal Impedance





SS52BF THRU SS520BF

5.0 Amp. Surface Mount Schottky Barrier Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
SS52BF THRU SS520BF	SMBF	R50	5000pcs/Reel

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