/ Descriptions

20V~200V 5.0A SMBF

Surface Mount Schottky Barrier Rectifier, Reverse Voltage 20 to 200V,Forward Current:5.0A,SMBF thin package.

/ Features

Low power loss, high efficiency, High forward surge current capability, For use in low voltage, high frequency inverters, and polarity protection applications,For surface mounted applications,HF Product.

/ Applications

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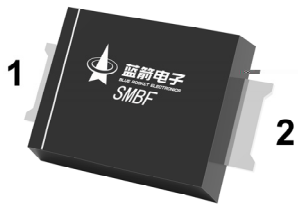
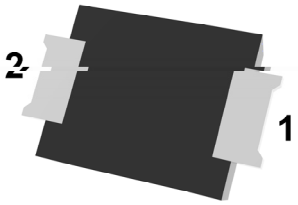
General purpose.

/ Equivalent Circuit

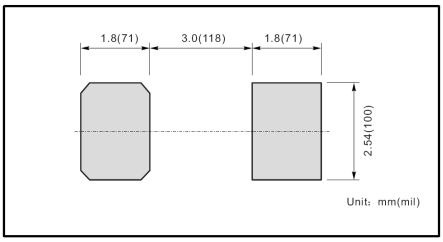
/ Pinning





PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating								Unit
		SS52BF	SS54BF	SS56BF	SS58BF	SS510BF	SS512BF	SS515BF	SS520BF	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	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 Superimposed on Rated Load (JEDEC method)	I_{FSM}	120								A
Typical Junction Capacitance[1]	C_j	800		500						pF
Typical Thermal Resistance[2]	$R_{\theta JA}$	45								/W
Operating Junction Temperature Range	T_j	-55 ~ +150								
Storage Temperature Range	T_{stg}	-55 ~ +150								

Note:

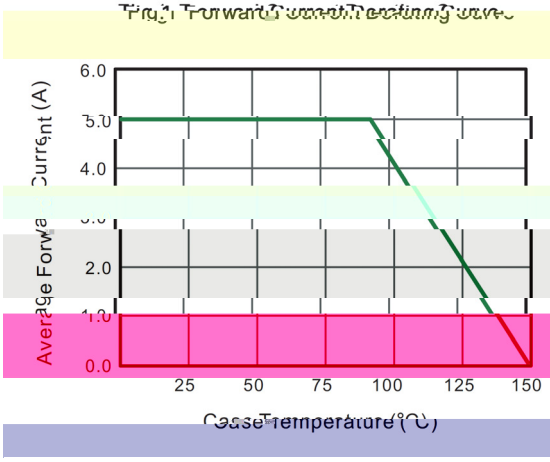
1 Measured at 1MHz and applied reverse voltage of 4 V D.C.

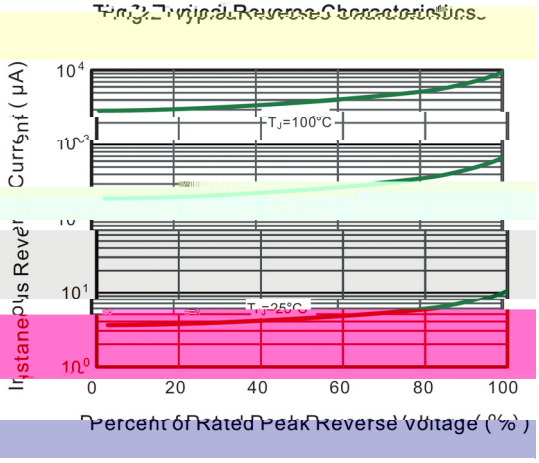
2 P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

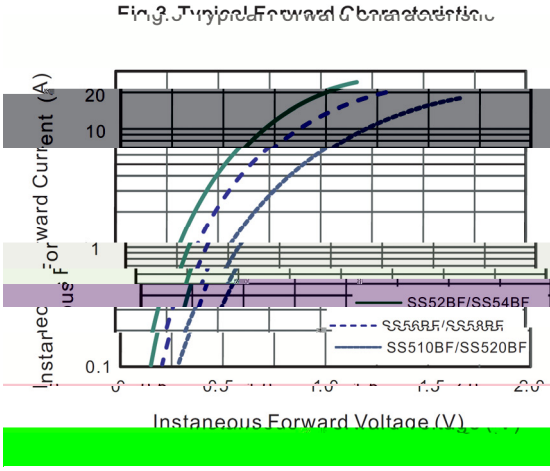
/ Electrical Characteristics(Ta=25)

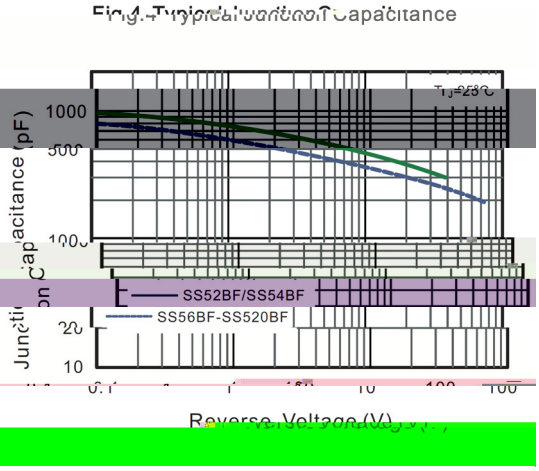
Parameter	Symbol	Test condition	Rating								Unit
			SS52BF	SS54BF	SS56BF	SS58BF	SS510BF	SS512BF	SS515BF	SS520BF	
Max Instantaneous Forward Voltage	V_F	I_F=5.0A	0.55		0.70		0.85				V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	T_a=25	1.0								mA
		T_a=100	50								

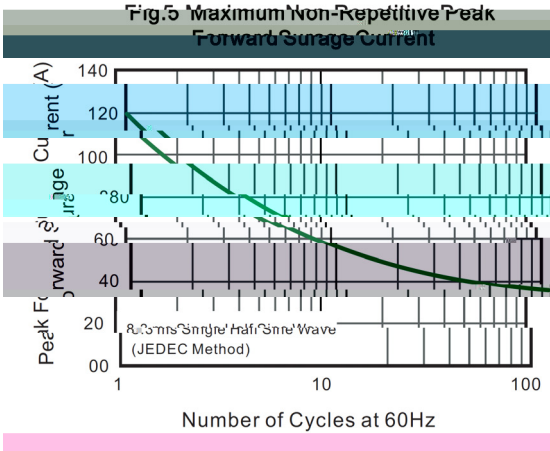
/ Electrical Characteristic Curve

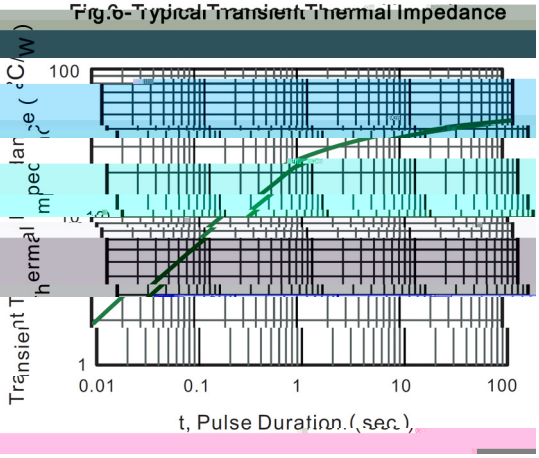










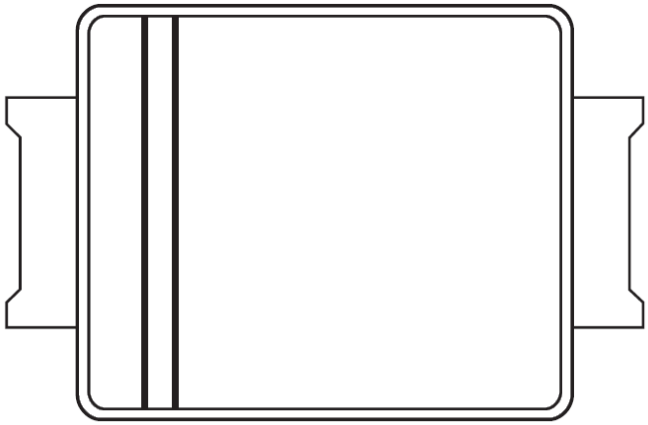


/ Marking Instructions

Marking

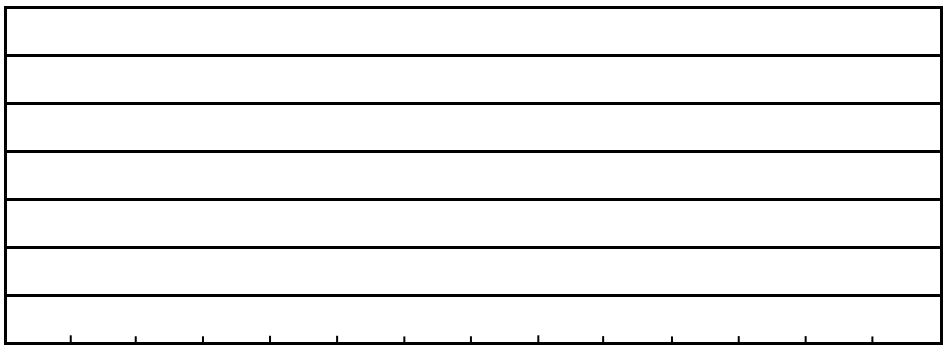
Type number	Marking code
SS52BF	S52B
SS54BF	S54B
SS56BF	S56B
SS58BF	S58B
SS510BF	S510B
SS515BF	S515B
SS520BF	S520B

/ Marking Instructions



S52B

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



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