



Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

Package: SMBF

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Polarity: Cathode line denotes the cathode end

Maximum Ratings (Ta=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS510BFH
Device marking code			SS510BFH
Repetitive peak reverse voltage	V_{RRM}	V	100
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I_O	A	5.0
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25	I_{FSM}	A	100

Storage temperature

	F	V	$I_{FM}=5.0A$	0.85
Maximum DC reverse current at rated DC blocking voltage per diode @ $V_{RM}=V_{RRM}$	I_{RRM}	mA	Ta=25	0.1
			Ta=100	5

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



SS510BFH

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	SS510BFH
Typical Thermal Resistance	R J-A	/W	58
	R J-L		20
	R J-C		15

Note: L-R v. J-M

SS510BFH



SS510BFH

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