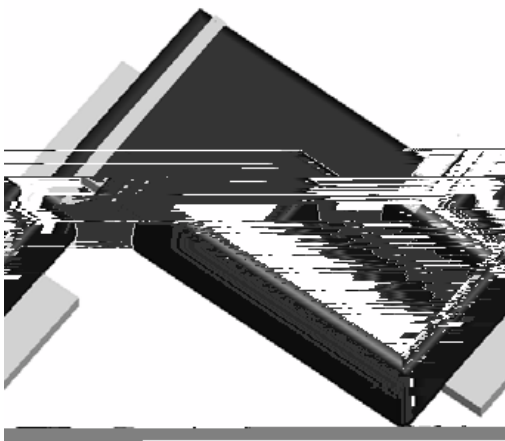


Typical Applications

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	$R_{\theta J-A}$	/W	58
	$R_{\theta J-L}$		20
	$R_{\theta J-C}$		15

Note: 1. $R_{\theta J-A}$ is the thermal resistance from the junction to the ambient.
2. $R_{\theta J-L}$ is the thermal resistance from the junction to the lead.
3. $R_{\theta J-C}$ is the thermal resistance from the junction to the case.

SS510BFH



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