



MURS320BF THRU MURS360BF

Surface Mount Super Fast Recovery Rectifier

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Super Fast reverse recovery time
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in high frequency rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

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 ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MURS320BF	MURS340BF	MURS360BF
Device marking code			MURS320BF	MURS340BF	MURS360BF
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	200	400	600
Maximum RMS Voltage	V_{RMS}	V	140	280	420
Maximum DC blocking Voltage	V_{DC}	V	200	400	600
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	I_o	A	3.0		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j=25$	I_{FSM}	A	100		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25$			200		
Current squared time	I^2t	A ² s	4.5		
	T_{stg}		-55 ~ +150		
Junction temperature	T_j		-55 ~ +150		



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Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MURS320BF	MURS340BF	MURS360BF
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}			



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Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MURS320BF	MURS340BF	MURS360BF
Typical Thermal resistance	R J-A ⁽¹⁾	/W	60		
	R J-L ⁽¹⁾		20		
	R J-C ⁽¹⁾		15		

Note:
 (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

Characteristics (Typical)

FIG.1: I_o-T_L Curve

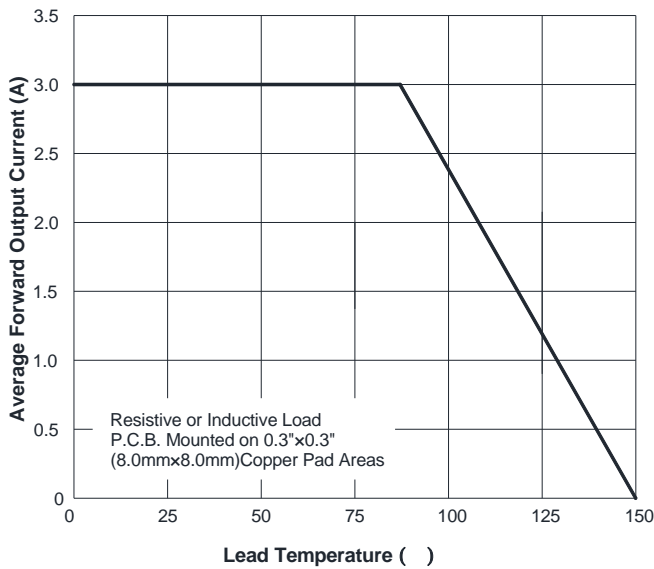


FIG.2: Forward Surge Current Capability

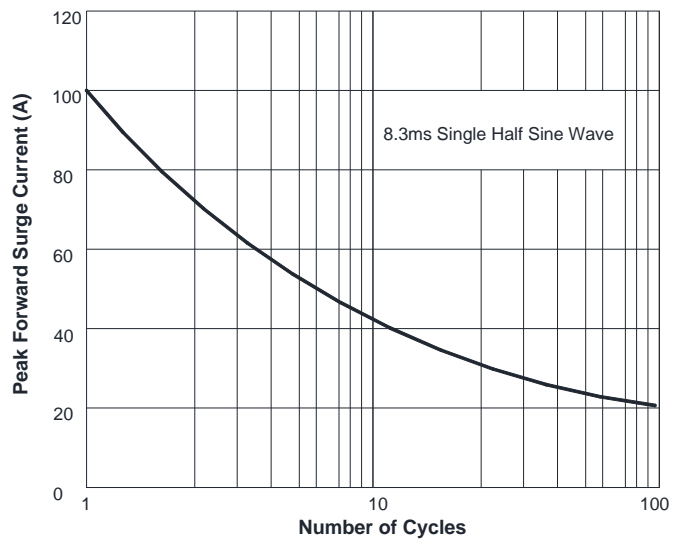
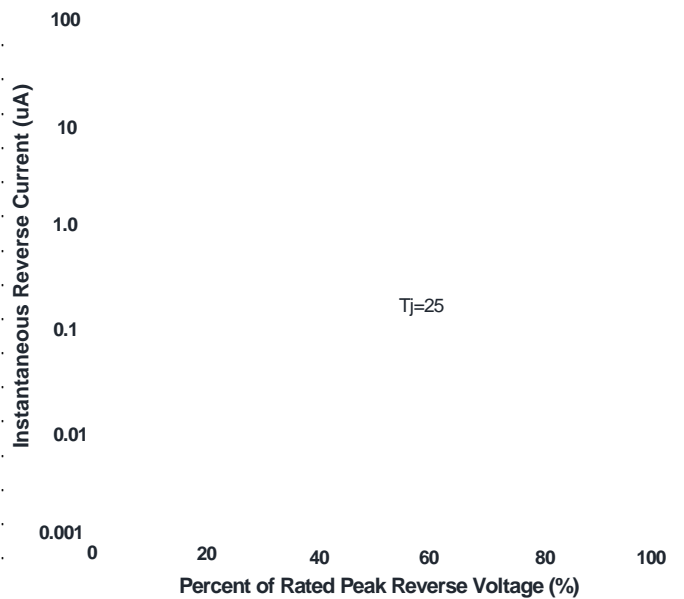


FIG.4: Typical Reverse Characteristics



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