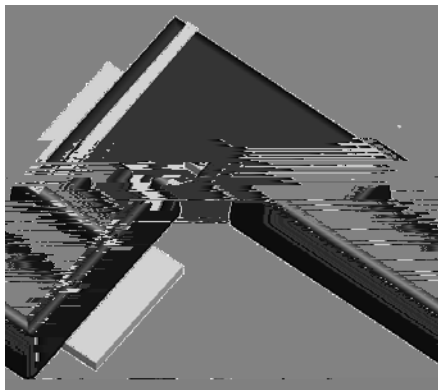
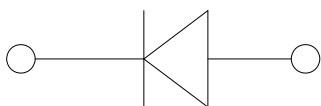




Typical Applications

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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER		VRRM	V	600
Maximum RMS Voltage	V_{RMS}	V	420	
Maximum DC blocking Voltage	V_{DC}	V	600	
Average rectified output current @60Hz half-sine wave, resistance load, TC (Fig.1)	I_O	A	4.0	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j = 25^\circ\text{C}$	I_{FSM}	A	100	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, $T_j=25^\circ\text{C}$			200	
Current squared time @1ms ≤ t ≤ 8.3ms $T_j=25^\circ\text{C}$ Rating of per diode	I^2t	A^2s	41.5	
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	C_j	pF	50	
Storage temperature	T_{stg}		-55 ~ +150	
Junction temperature	T_j		-55 ~ +150	

■Electrical Characteristics $T_a=25^\circ\text{C}$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MURS460BF
			$T_j=125^\circ\text{C}$	50



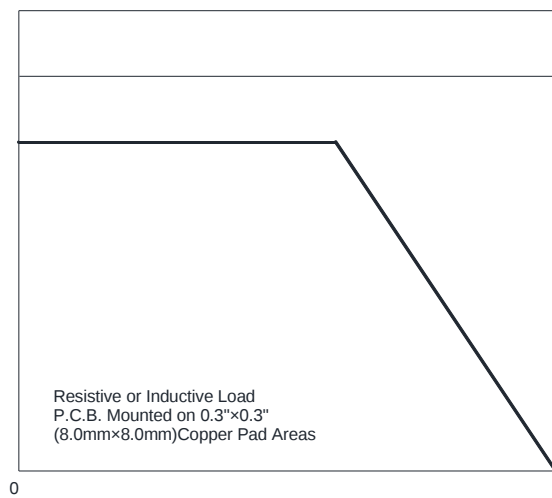
MURS460BF

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MURS460BF
Typical Thermal resistance	$R_{\theta J-A}^{(1)}$	/W	60
	$R_{\theta J-L}^{(1)}$		20
	$R_{\theta J-C}^{(1)}$		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)





SMBF



Dimensions in millimeters



1.



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