

SMBF Plastic-Encapsulate Diodes

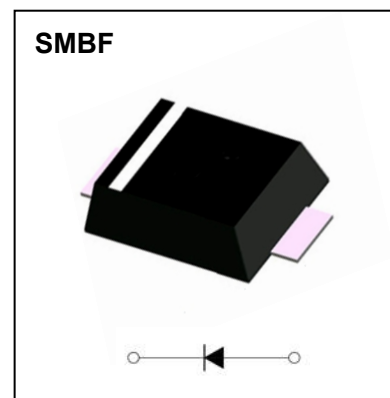
Schottky Rectifier

Features

- I_o 2A
- VRRM 20V-200V
- Low forward voltage drop
- High surge current capability
- Metal silicon junction, majority carrier conduction

Mechical Data

- Case: SMBF molded plastic
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Solder plated, solderable per MIL- STD-202, Method 208
- Polarity: Color band denotes cathode end



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	SS	SS	SS	SS	SS	SS	SS	SS	SS
				22BF	23BF	24BF	25BF	26BF	28BF	210BF	215BF	220BF
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	30	40	50	60	80	100	150	200
Maximum RMS Voltage	V_{RMS}	V		14	21	28	35	42	56	70	105	140
Maximum DC Blocking Voltage	V_{DC}	V		20	30	40	50	60	80	100	150	200
Average Forward Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, TL(Fig.1)	2.0								
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave ,1 cycle , $T_a=25^{\circ}C$	50								
Junction Temperature	T_J	$^{\circ}C$		-55~+150								
Storage Temperature	T_{STG}	$^{\circ}C$		-55 ~ +150								

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

Item	Symbol	Unit	Test Condition	SS	SS	SS	SS	SS	SS	SS	SS	SS
				22BF	23BF	24BF	25BF	26BF	28BF	210BF	215BF	220BF
Peak Forward Voltage	V _F	V	I _F =2.0A		0.55			0.70		0.85		0.95
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25℃		0.5				0.1		
	T _a =100℃			10				5.0				
Thermal Resistance(Typical)	R _{θJA}	℃/W	Between junction and ambient		78							

Typical Characteristics

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

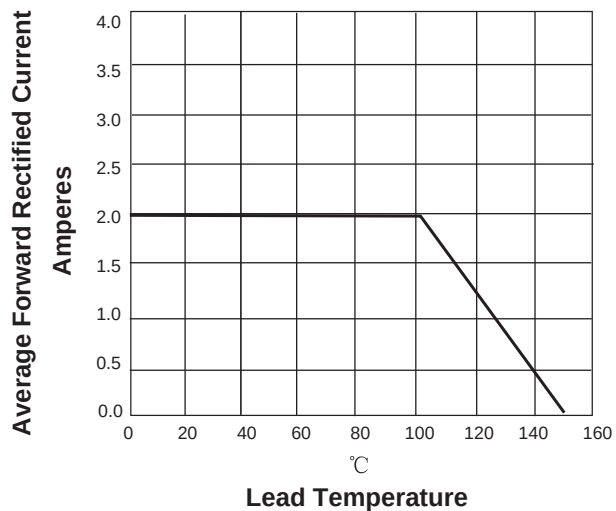


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

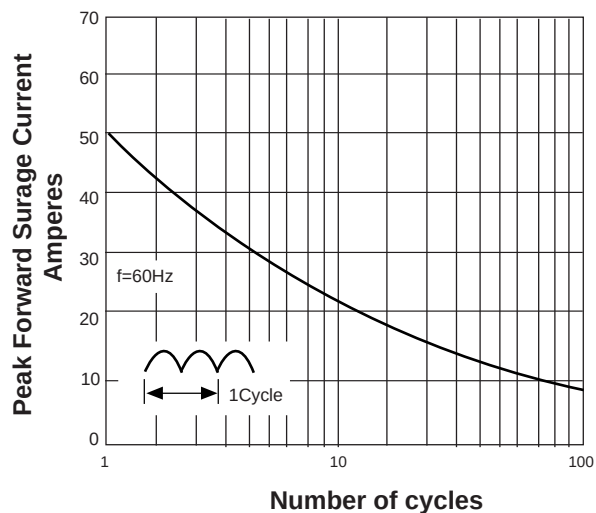


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

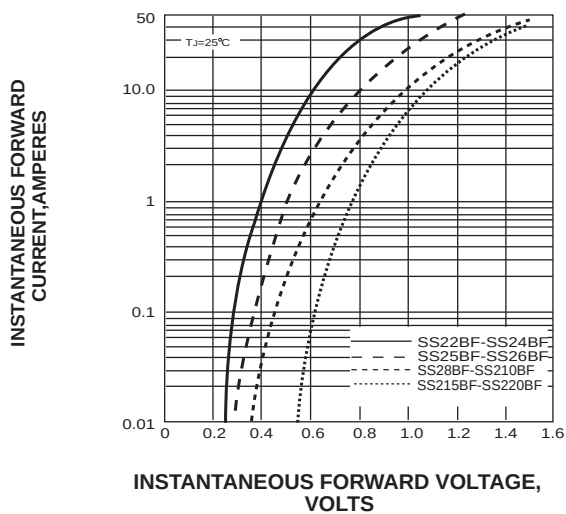
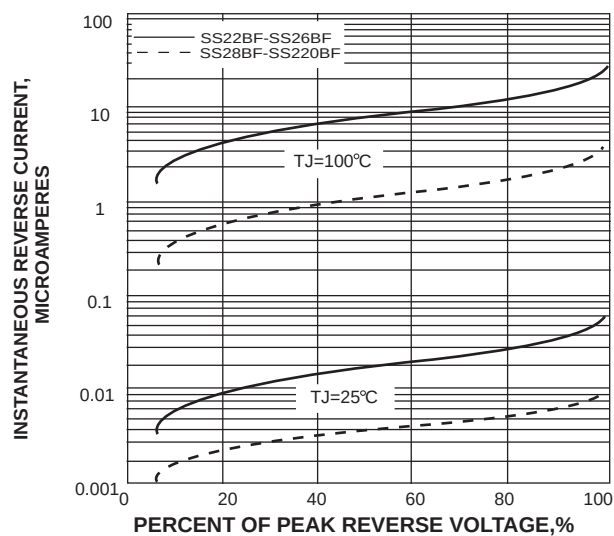


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



SMBF Package Outline Dimensions

