



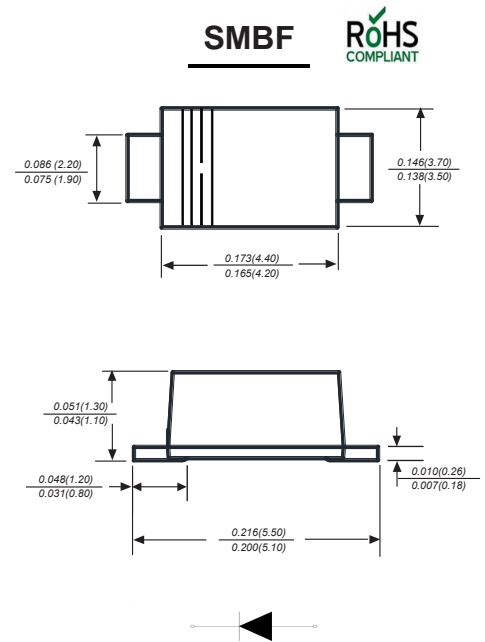
SS32BF THRU SS3200BF

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Ampere

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- ◆ Metal silicon junction, majority carrier conduction For surface mounted applications
- ◆ Low power loss,high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage,high frequency inverters, free wheeling,and polarity protection applatclons



Dimensions in inches and (millimeters)

Mechanical Data

Case: JEDEC UT BØ molded plastic body

Terminals: Solderable per MIL-STD-750, Method 2026A

Polarity: Polarity symbol marking on body Mounting

Position: Any

Weight : 0.002 ounce, 0.057 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS32BF	SS33BF	SS34BF	SS35BF	SS36BF	SS38BF	SS310BF	SS3150BF	SS3200BF	UNITS
		MDD SS32BF	MDD SS33BF	MDD SS34BF	MDD SS35BF	MDD SS36BF	MDD SS38BF	MDD SS310BF	MDD SS3150BF	MDD SS3200BF	
Maximum repetitive peak reverse voltage	V_{RMM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	$I_{(AV)}$	3.0									A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80					70				A
Maximum instantaneous forward voltage at 3.0A	V_F	0.55			0.70		0.85		0.95		V
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	I_R	0.5					0.3				mA
		5.0					3.0				
Typical junction capacitance (NOTE 1)	C_J	450					400				pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	50.0									$^\circ\text{C}/\text{W}$
Operating junction temperature range	T_J	-55 to +125									$^\circ\text{C}$
Storage temperature range	T_{STG}	-55 to +150									$^\circ\text{C}$

- Note:** 1. Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 2.0x2.0"(5.0x5.0cm) copper pad areas.
3. The typical data above is for reference only.



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Typical Characteristics

Fig.1 Forward Current Derating Curve

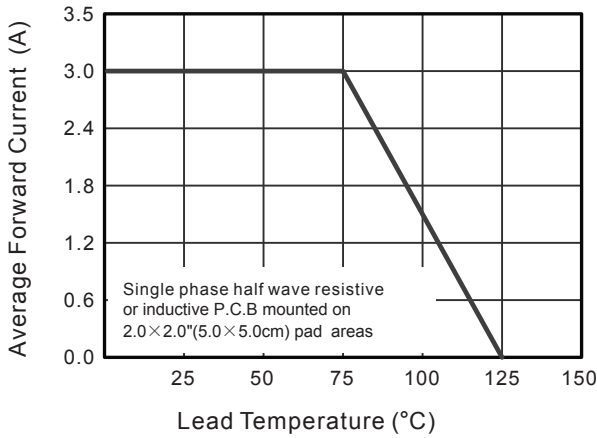


Fig.2 Typical Reverse Characteristics

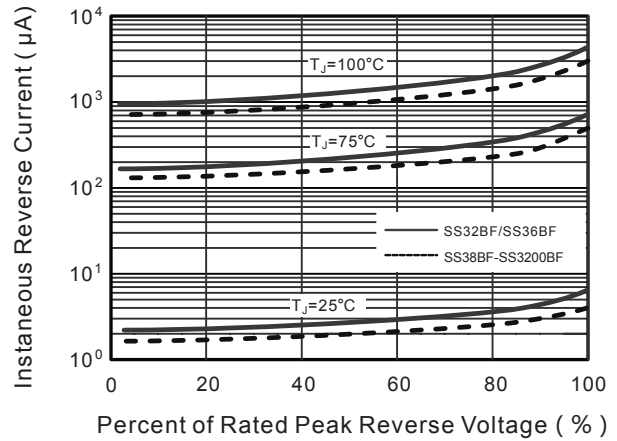


Fig.3 Typical Forward Characteristic

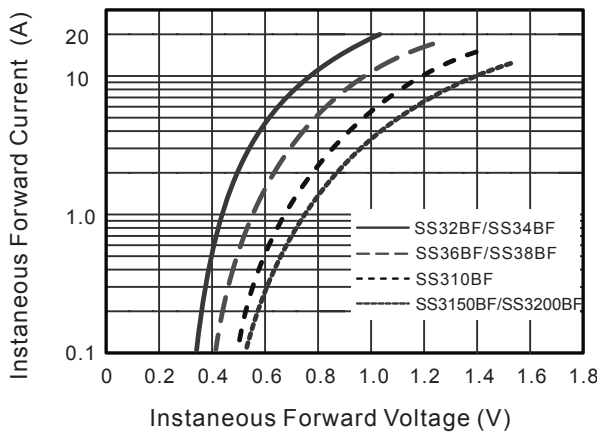


Fig.4 Typical Junction Capacitance

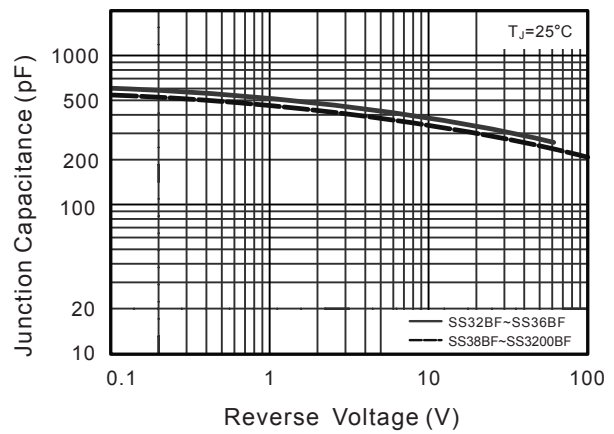


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

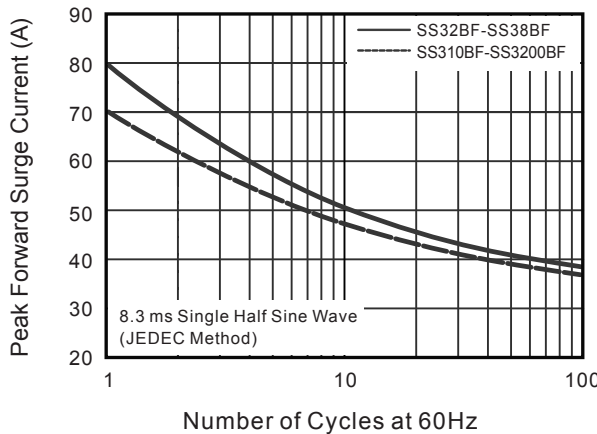
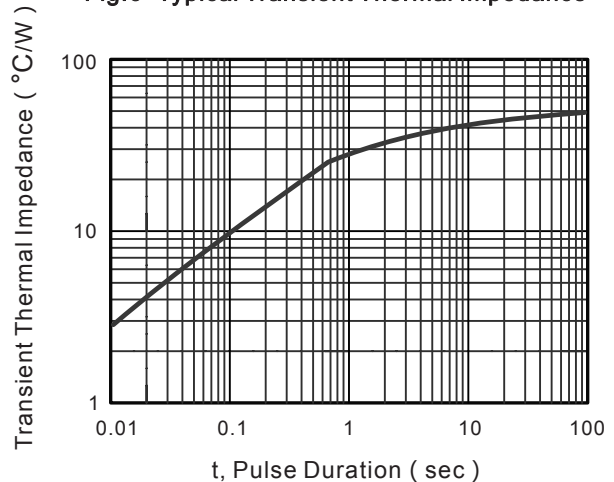


Fig.6- Typical Transient Thermal Impedance



The curve above is for reference only.



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Packing information



unit:mm

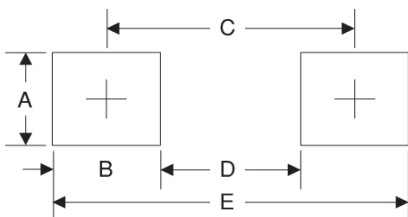
Item	Symbol	Tolerance	SMBF
Carrier width	A	0.1	3.81
Carrier length	B	0.1	5.61
Carrier depth	C	0.1	1.60
Sprocket hole	d	0.05	1.50
13" Reel outside diameter	D	2.0	330.00
13" Reel inner diameter	D ₁	min	50.00
Feed hole diameter	D ₂	0.5	13.00
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.50
Punch hole pitch	P	0.1	4.00
Sprocket hole pitch	P ₀	0.1	4.00
Embossment center	P ₁	0.1	2.00
Overall tape thickness	T	0.1	0.30
Tape width	W	0.3	12.00
Reel width	W ₁	1.0	12.30

Note: Devices are packed in accordance with EIA standard RS-481-A and specifications listed above.

Reel packing

PACKAGE	REEL SIZE	REEL (pcs)	COMPONENT SPACING (mm)	BOX (pcs)	INNER BOX (mm)	REEL DIA. (mm)	CARTON SIZE (mm)	CARTON (pcs)	APPROX. GROSS WEIGHT (kg)
SMBF	13"	5,000	4.0	10,000	190*190*41	330	365*365*360	80,000	14.0

Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
A	2.54	0.100
B	1.8	0.071
C	4.8	0.189
D	3.0	0.118
E	6.6	0.260

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