

SURFACE MOUNT SCHOTTKY BRIDGE RECTIFIERS

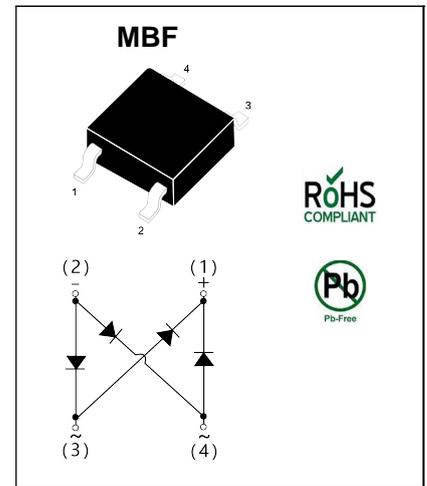
Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Schottky technology
- Ideal for automated placement
- High surge current capability
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Green compound (halogen&Sb₂O₃ free)

Mechanical Data

- Case: Molded plastic body
- Terminals: Plated lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols marked on case
- Mounting Position: Any



RoHS COMPLIANT

Pb-Free

Specification

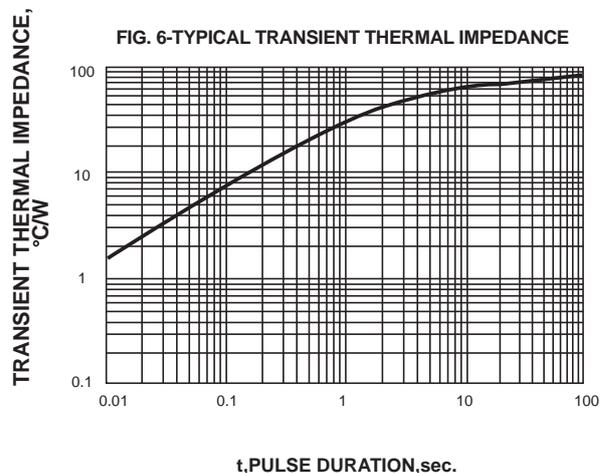
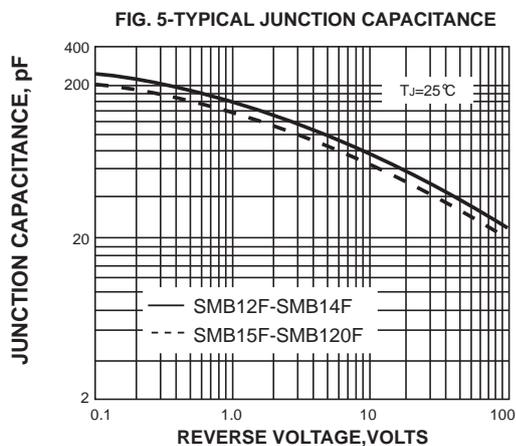
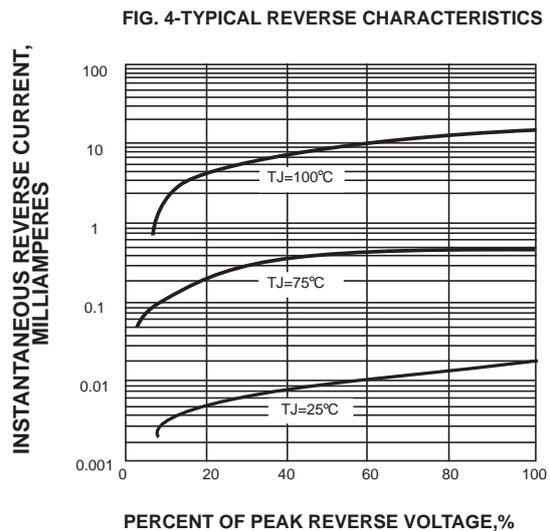
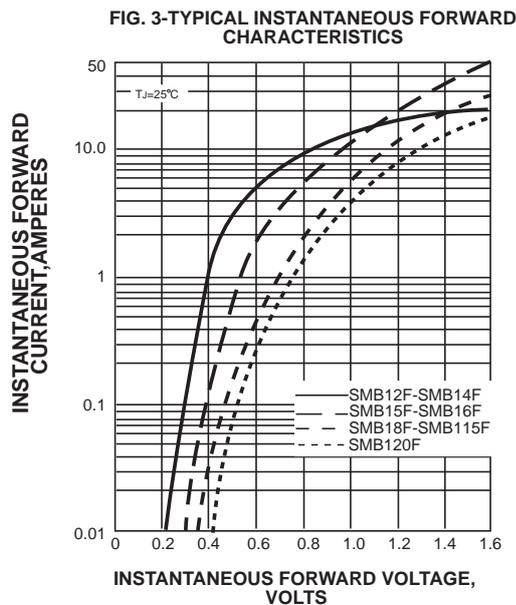
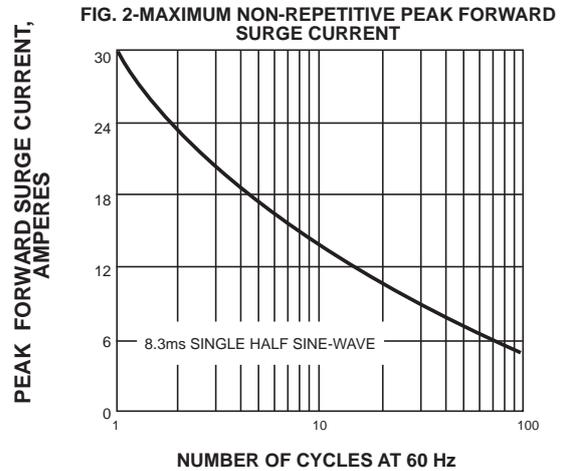
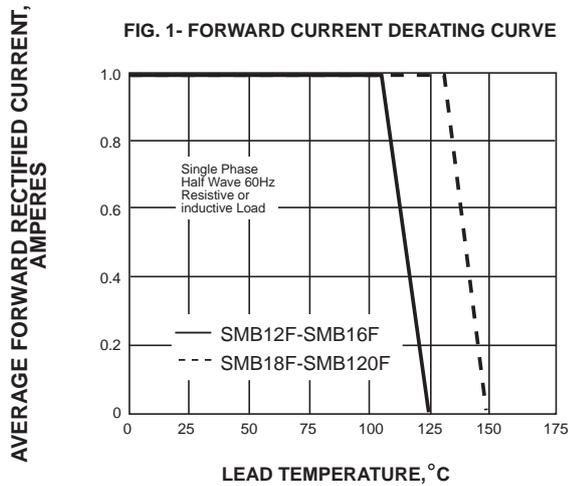
Maximum Rating And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load derate current by 20%.

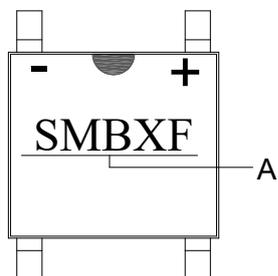
	SYMBOLS	SMB12F	SMB13F	SMB14F	SMB15F	SMB16F	SMB18F	SMB110F	SMB115F	SMB120F	UNITS	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	1.0									A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0									A	
Maximum instantaneous forward voltage at 1.0A	V _F	0.55			0.70			0.85		0.95	V	
Maximum DC reverse current at rated DC blocking voltage	I _R	0.5						0.2			mA	
		10.0			5.0			2.0				
Typical junction capacitance (NOTE 1)	C _J	110			90						pF	
Typical thermal resistance (NOTE 2)	R _{θJA}	88.0									°C/W	
Operating junction temperature range	T _J	-55 to +125					-55 to +150					°C
Storage temperature range	T _{STG}	-55 to +150									°C	

Note:1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

Ratings and characteristic curves SMB12F thru SMB120F

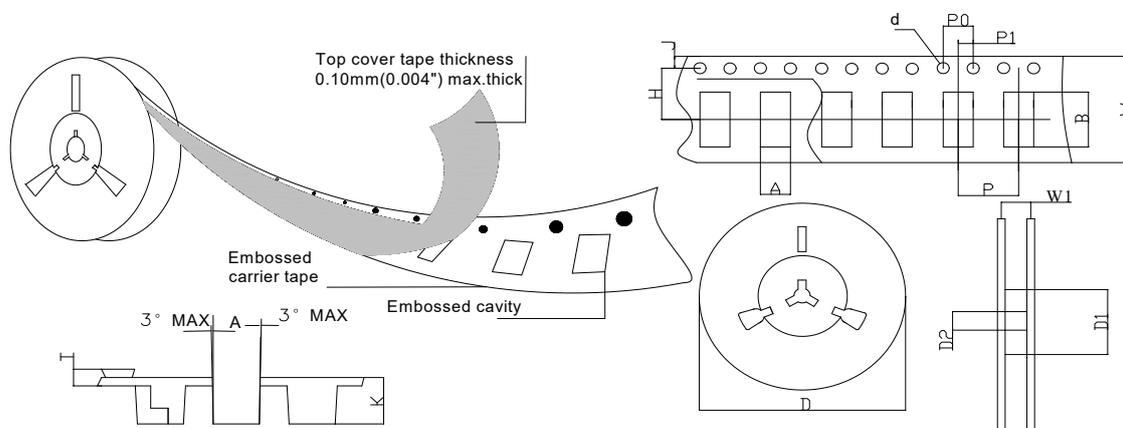


1、Marking



SYMBOL	Explanation
A	Product Name

2、Packaging



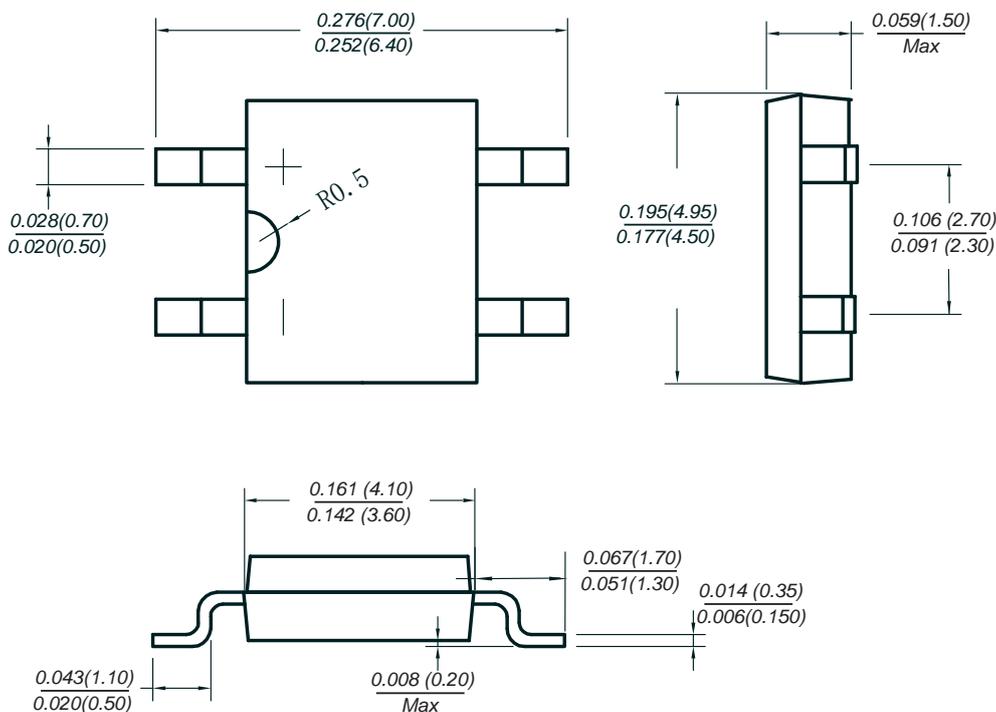
SPECIFICATIONS mm(inch)		PACKAGE	SPECIFICATIONS mm(inch)		PACKAGE
ITEM	SYM BOL	MBF	ITEM	SYM BOL	MBF
Carrier width	A	5.15(0.203)Max	Carrier depth	K	2.88(0.113)Typ
Carrier length	B	7.25(0.285)Max	Punch hole pitch	P	8.00(0.315)Typ
Sprocket hole	d	ø1.55(0.061)Typ	Sprocket hole pitch	P0	4.00(0.157)Typ
Reel outer diameter	D	330.0(13.0)Typ	Embossment center	P1	2.00(0.079)Typ
Reel inner diameter	D1	50.0(2.913)Min	Overall tape thickness	T	0.30(0.012)Typ
Feed hole diameter	D2	13.0(0.512)Typ	Tape width	W	12.0(0.472)Typ
Sprocket hole position	J	1.75(0.069)Typ	Reel width	W1	12.4(0.488)Min
Punch hole position	H	5.50(0.217)Typ			

3、Ordering Information

Part Number	Compliance	Case	Packaging
SMBXF	Standard	MBF	5000/Tape & Reel

Dimension

MBF



Dimensions in inches and (millimeters)

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