

MBS Plastic-Encapsulate Bridge Rectifier

Schottky Bridge Rectifier

Features

- $I_{F(AV)}$ 2A
- V_{RRM} 20V-100V
- High surge current capability
- Polarity: Color band denotes cathode

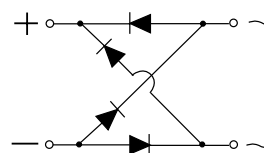
Applications

- Rectifier

Marking

- MB2XXS
 X : From 2 To 10

SMD/ MBS



Limiting Values(Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	MB2				
				2S	4S	6S	8S	10S
Repetitive Peak Reverse Voltage	V_{RRM}	V		20	40	60	80	100
Maximum RMS Voltage	V_{RMS}	V		14	28	42	56	70
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, 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				

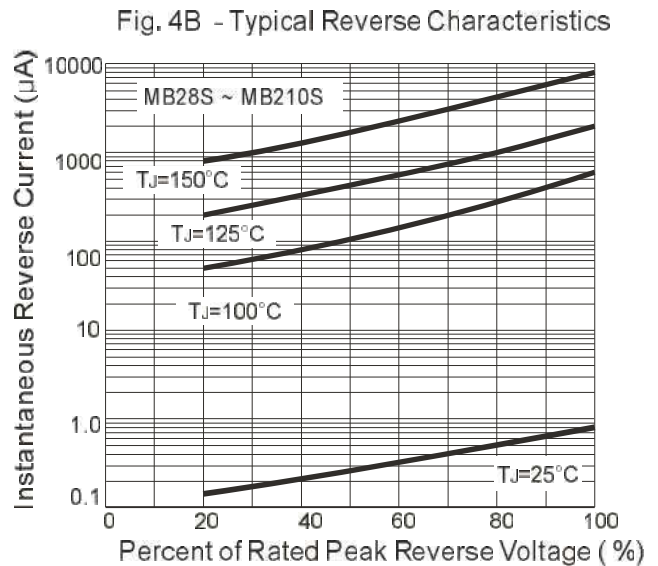
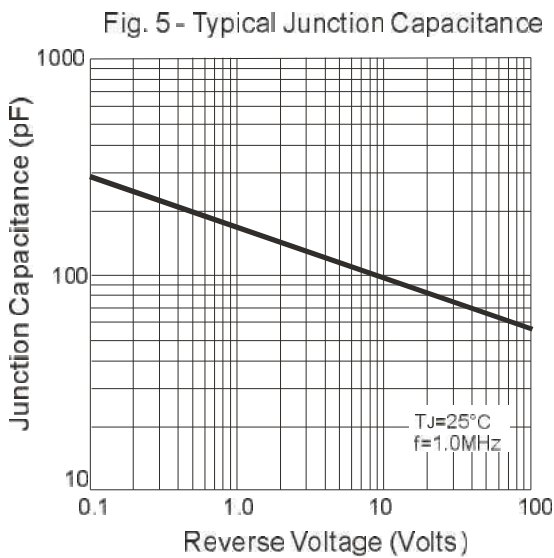
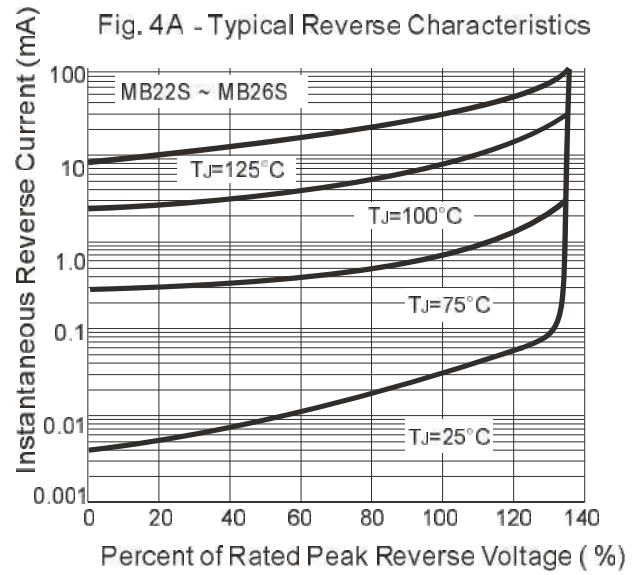
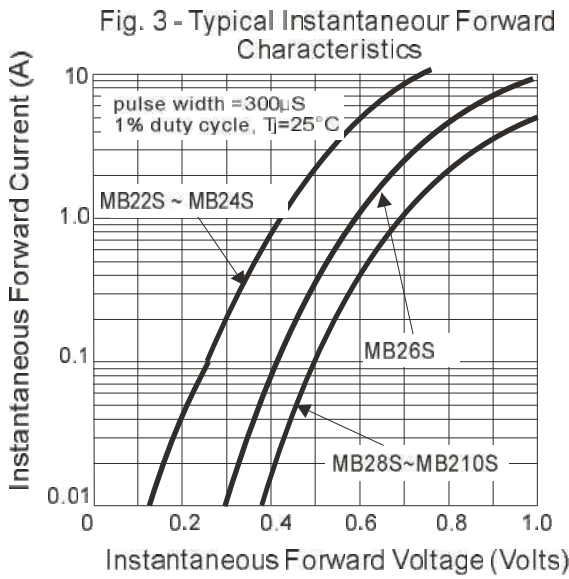
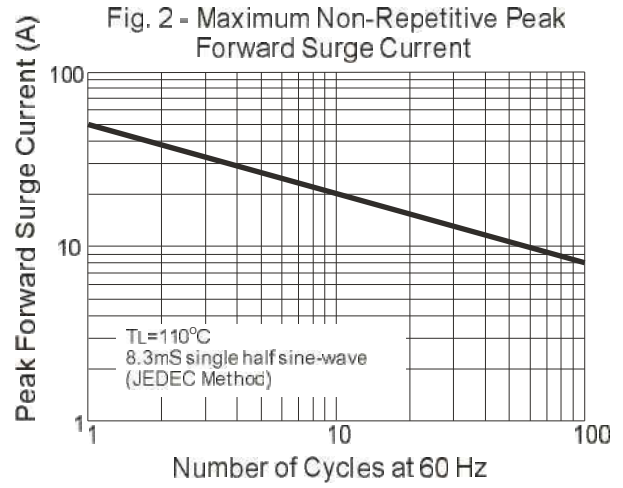
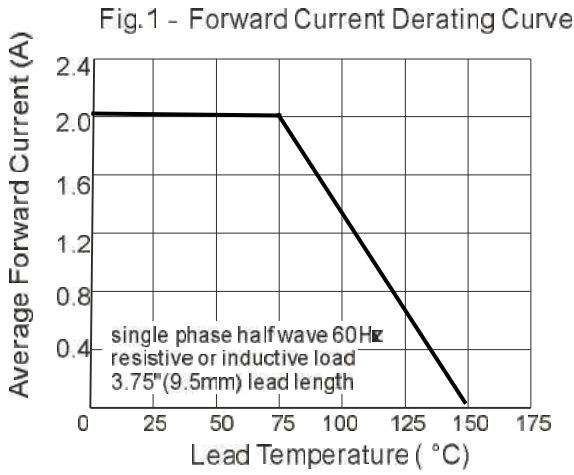
Electrical Characteristics ($T = 25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	MB2				
				2S	4S	6S	8S	10S
Peak Forward Voltage	V_F	V	$I_F=2.0A$	0.50		0.70		0.85
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$				
	I_{RRM2}			$T_a=100^{\circ}C$				
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	88				
	$R_{\theta J-L}$		Between junction and terminal	28				

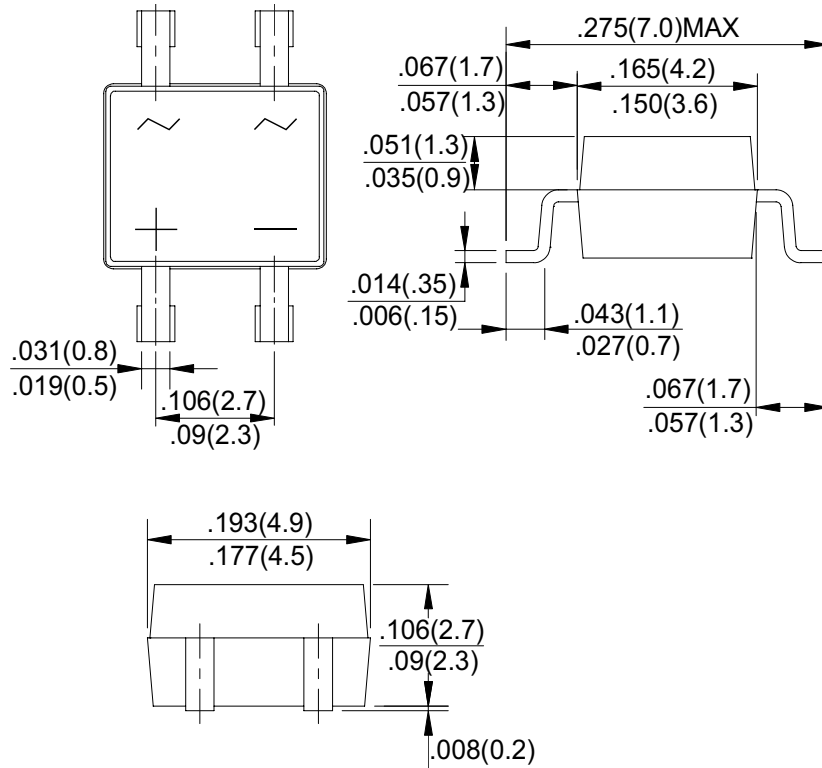
Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

Typical Characteristics

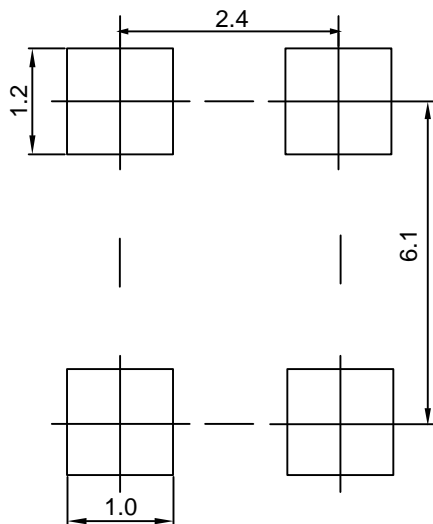


MBS Package Outline Dimensions



Dimensions in inches and (millimeters)

MBS Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

Reel Taping Specifications For Surface Mount Devices-MBS

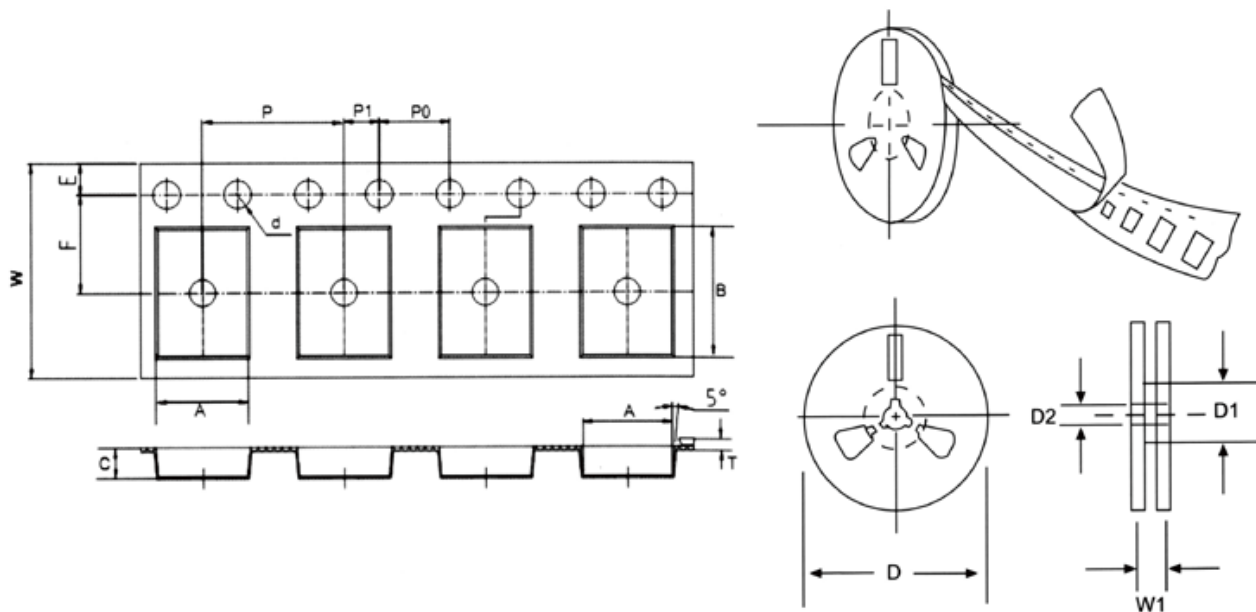


FIG: CONFIGURATION OF SURFACE MOUNTED DEVICES TAPING

ITEM	SYMBOL	MBS mm(inch)
Carrier width	A	5.05+0.1(0.198+0.004)
Carrier length	B	7.22+0.1(0.284+0.004)
Carrier depth	C	2.88+0.1(0.113+0.004)
Sprocket hole	d	1.55±0.05(0.061±0.002)
Reel outside diameter	D	330±2.0(13±0.079)
Reel inner diameter	D1	75 ±1.0 (2.95 ±0.039)
Feed hole diameter	D2	13+0.5(0.512+0.020)
Stroctet hole position	E	1.75+0.1(0.069+0.004)
Punch hole position	F	5.50+0.05(0.217+0.002)
Punch hole pitch	P	8.0+0.1(0.315+0.004)
Sprocket hole pitch	P0	4.0+0.1(0.157+0.004)
Embossment center	P1	2.0+0.1(0.079+0.004)
Totall tape thickness	T	0.20-0.70(0.080-0.028)
Tape width	W	12.0+0.3/-0.1(0.472+0.004)
Reel width	W1	16.8+2.0(0.661+0.079)

NOTE: Devices are packde in accordance with EIA standard RS-481-A and specification given above.