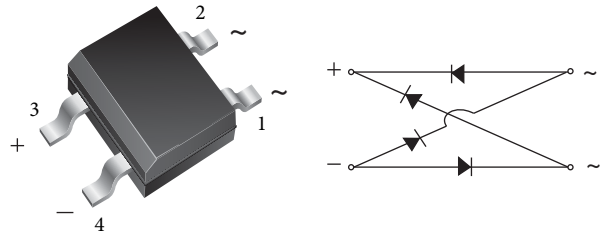


Schottky Bridge Rectifier in TO-269AA

Features

- TO-269AA(MBS) package
- Saves space on printed circuit boards
- Ideal for automated placement
- Middle surge current capability
- Low leakage current



Mechanical Data

- **Case:** TO-269AA (plastic package).
RoHS compliant
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

Applications

- Battery charger
- Mobile phone adapter
- Lighting ballaster
- Power supply
- Home, office, telecom applications
- Other AC/DC rectification application

Absolute Maximum Ratings

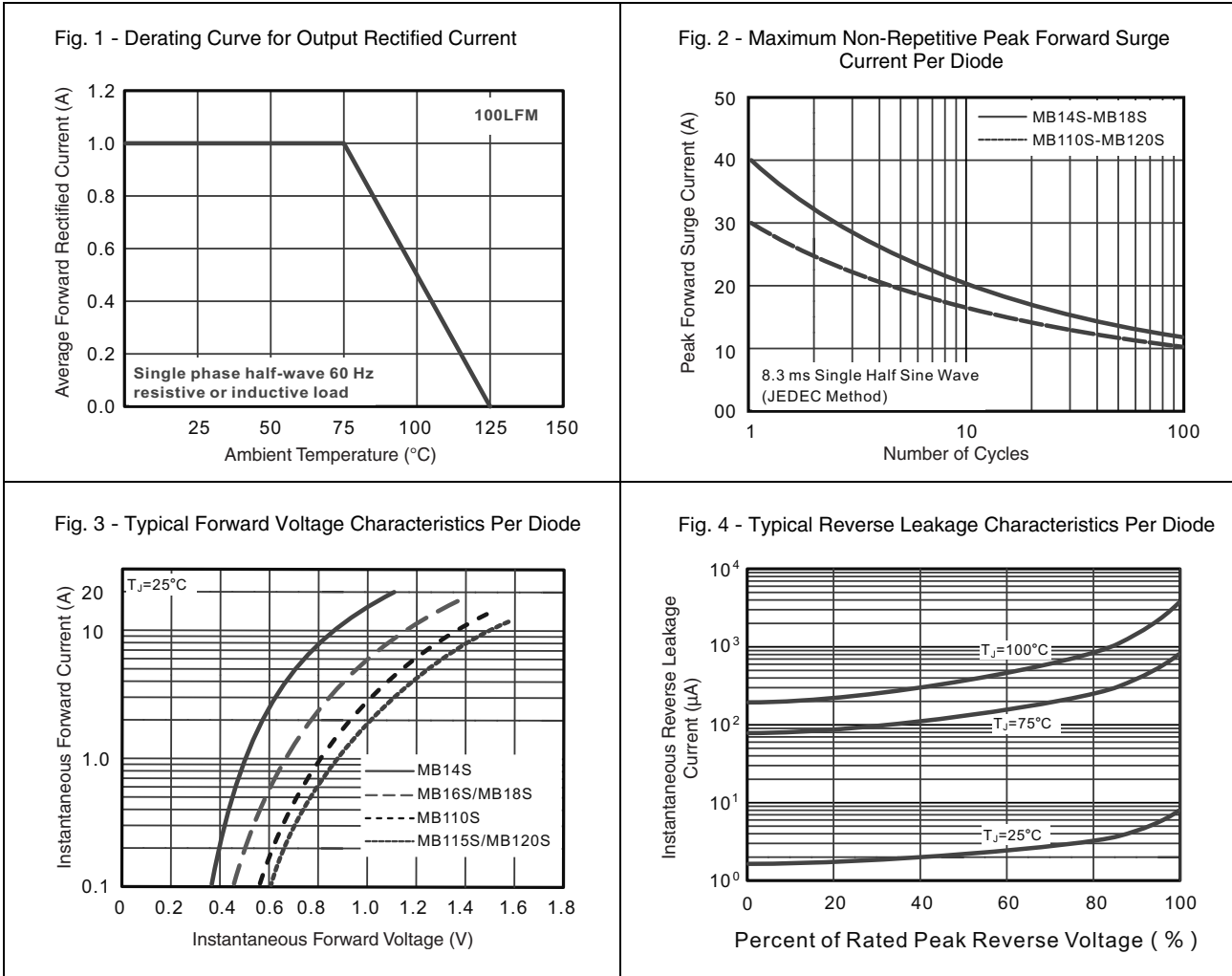
Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbols	MB14S	MB16S	MB18S	MB110S	MB115S	MB120S	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0						A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	40			30			A
Max Instantaneous Forward Voltage at 1 A	V_F	0.50	0.70	0.85	0.90			V
Maximum DC Reverse Current at Rated DC Reverse Voltage $T_a = 25^\circ\text{C}$ $T_a = 100^\circ\text{C}$	I_R	0.3 10			0.2 5	0.1 2	mA	
Typical Junction Capacitance ¹⁾	C_j	110	80					pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	115						°C/W
Operating Junction Temperature Range	T_j	-55 ~ +125						°C
Storage Temperature Range	T_{sig}	-55 ~ +150						°C

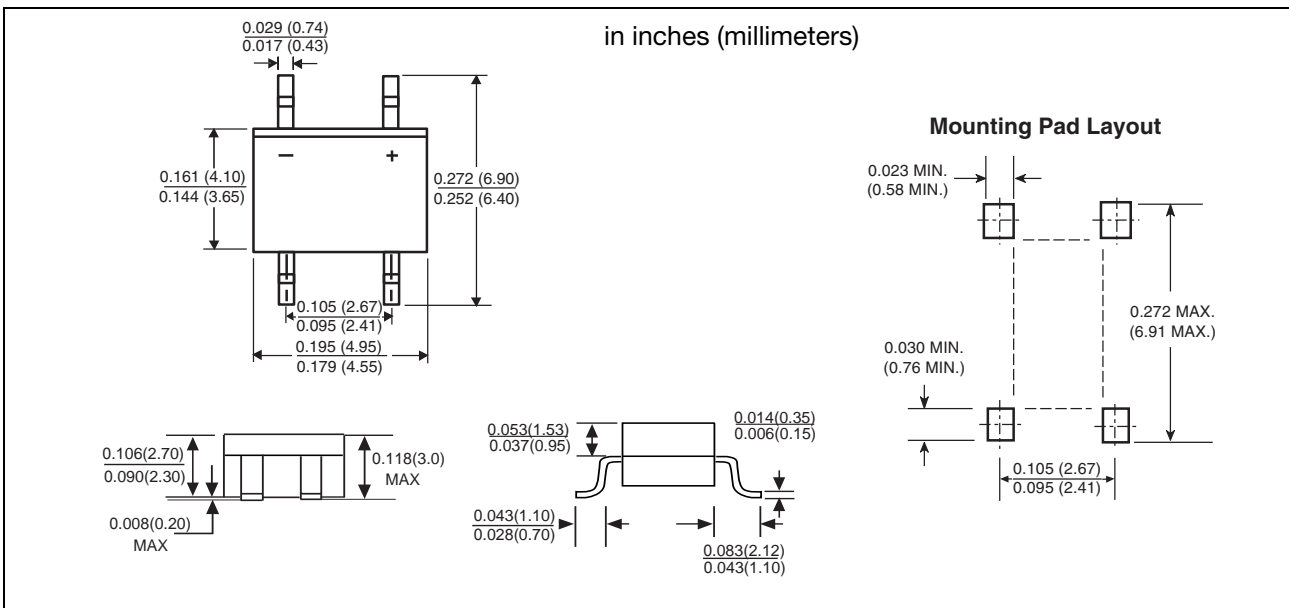
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. mounted on glass epoxy PC board with $4 \times (5 \times 5\text{mm}^2)$ copper pad.

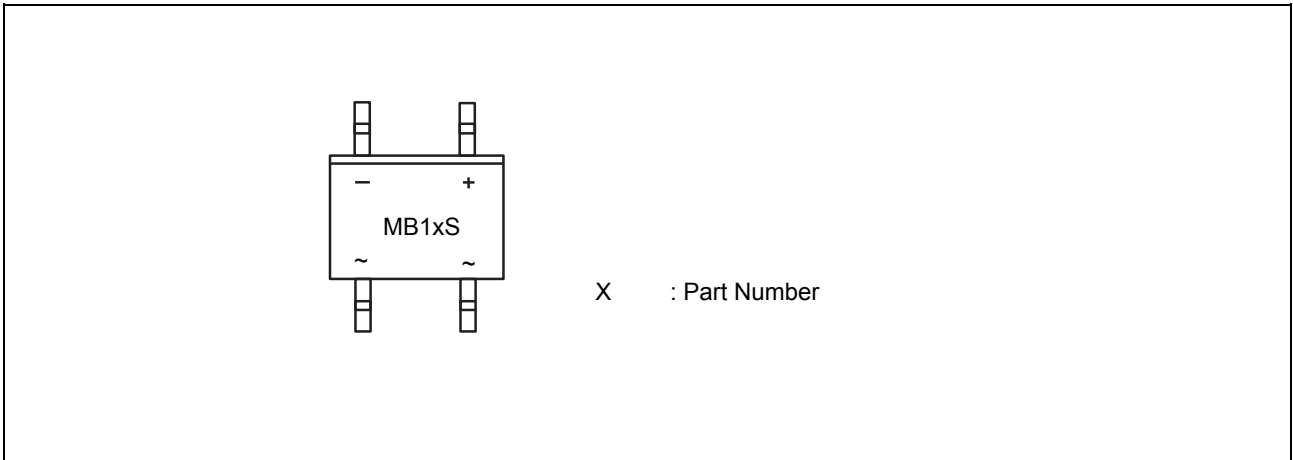
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Marking



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
MB1XS	TO-269AA	Tape and reel	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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