



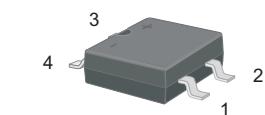
1A SURFACE MOUNT SCHOTTKY BRIDGE

FEATURES:

- Reverse Voltage - 40 to 200 V
- Forward Current - 1 A
- High Surge Current Capability
- Designed for Surface Mount Application

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)



MBS Package

MECHANICAL DATA

- Case: MBS
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 100mg / 0.0035oz

Maximum Ratings and Electrical characteristics

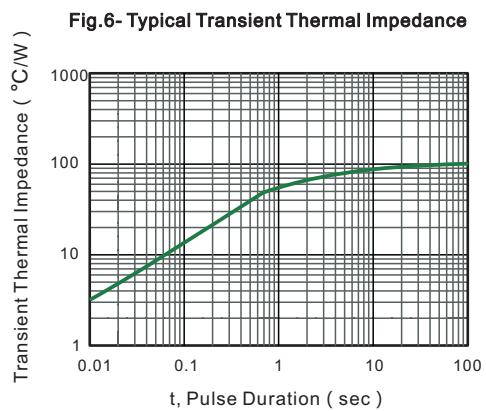
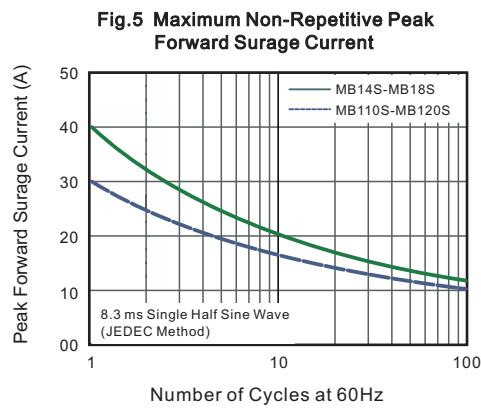
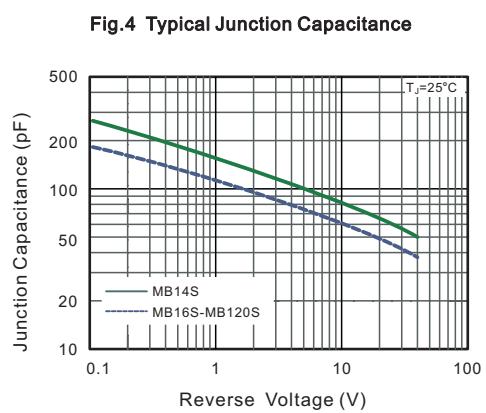
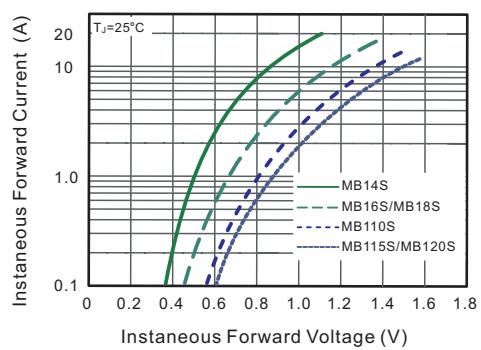
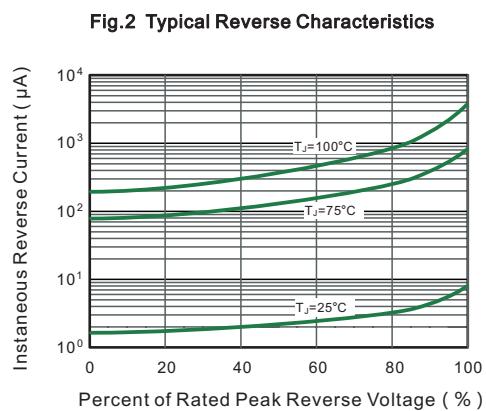
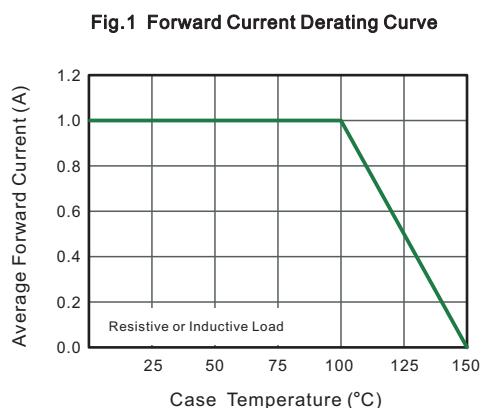
Ratings at 25 °C ambient temperature unless otherwise specified.

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

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 at T _c = 100°C	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	0.55	0.70	0.85	0.90			V
Maximum DC Reverse Current T _a = 25°C at Rated DC Reverse Voltage T _a = 100°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 _{θJA}	100						°C/W
Operating Junction Temperature Range	T _j	-55 ~ +150						°C
Storage Temperature Range	T _{stg}	-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 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

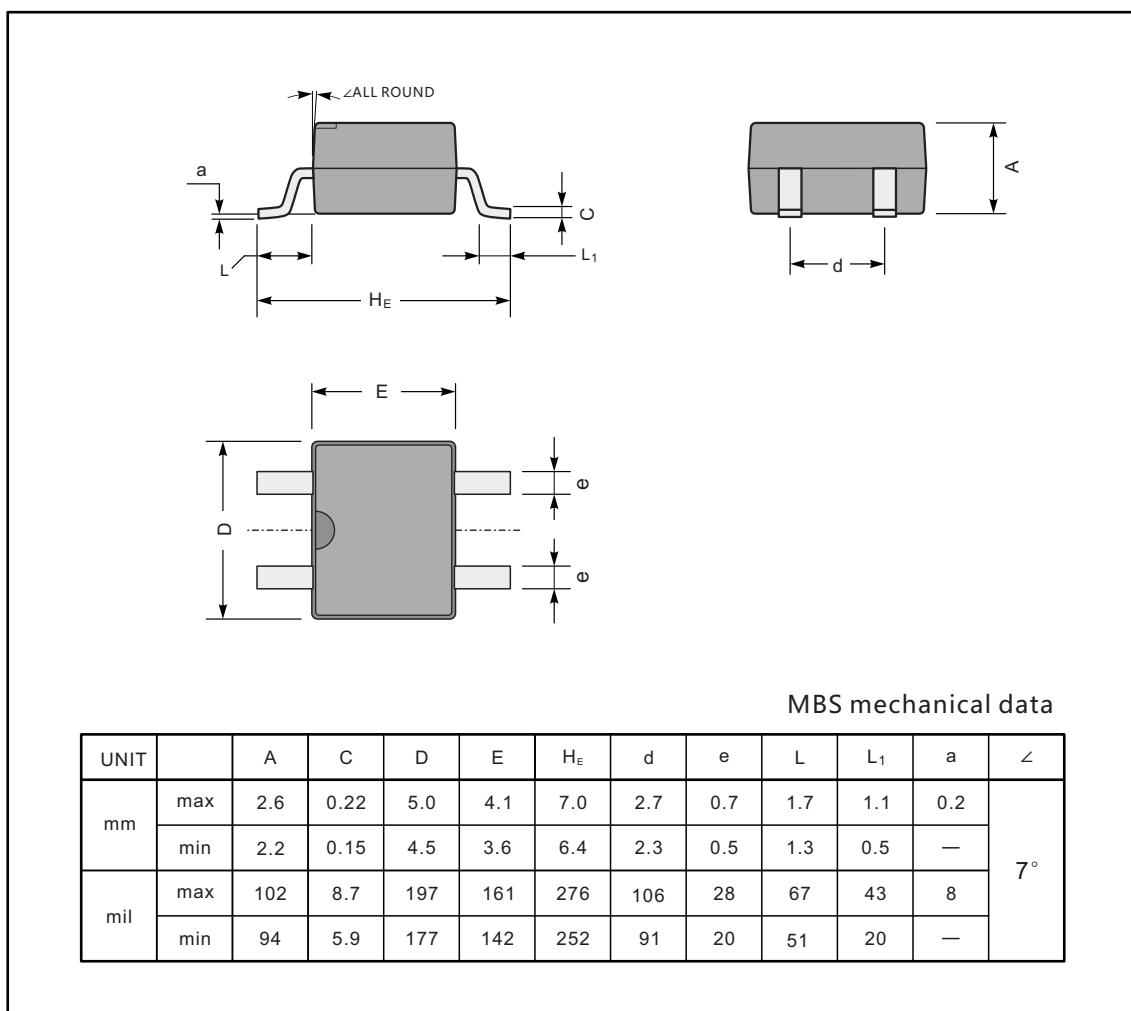




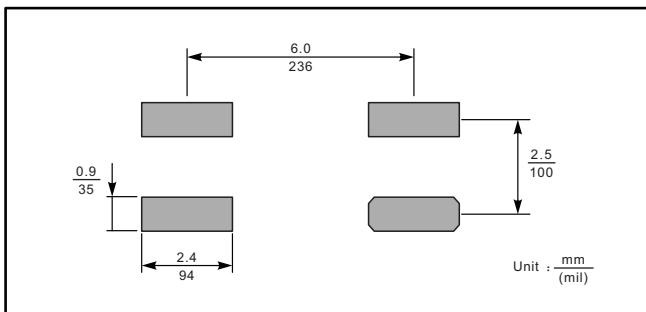
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

MBS



The recommended mounting pad size



Marking

Type number	Marking code
MB14S	MB14S
MB16S	MB16S
MB18S	MB18S
MB110S	MB110S
MB115S	MB115S
MB120S	MB120S

A small diagram of the MBS package is shown with the marking 'MBxxS' written on it, where 'xx' represents the specific package number (e.g., 14, 16, 18, 110, 115, 120).