



### 3A SURFACE MOUNT SCHOTTKY BRIDGE

#### FEATURES:

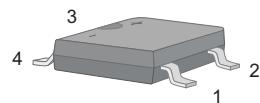
- Reverse Voltage - 40 to 200 V
- Forward Current - 3 A
- High Surge Current Capability
- Designed for Surface Mount Application

#### PINNING

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

#### MECHANICAL DATA

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg 0.0031oz



ABS/LBF Package

#### Maximum Ratings and Electrical characteristics

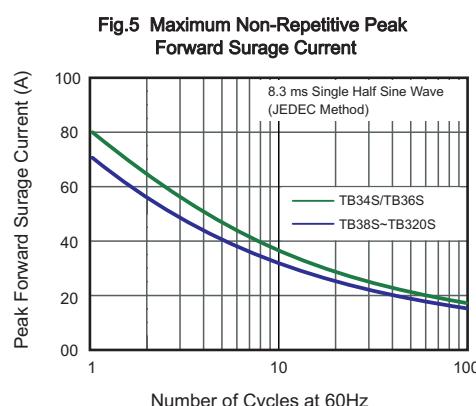
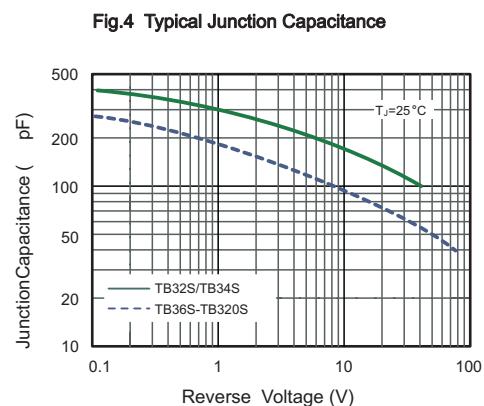
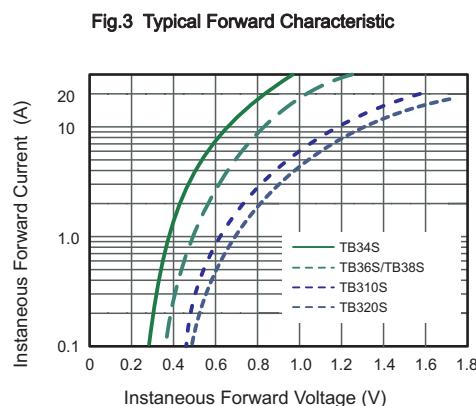
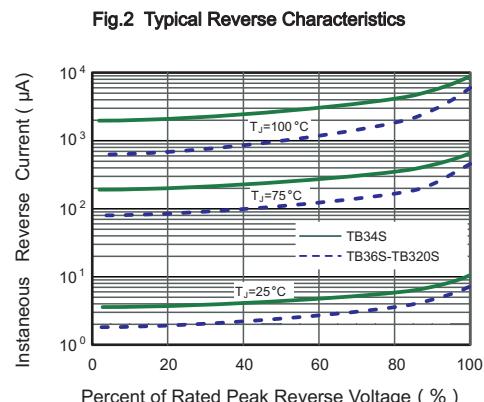
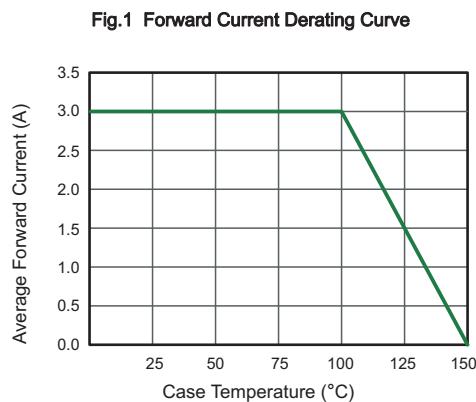
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	TB34S	TB36S	TB38S	TB310S	TB320S	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	40	60	80	100	200	V
Maximum RMS voltage	V <sub>RMS</sub>	28	42	56	70	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	40	60	80	100	200	V
Average Rectified Output Current at T <sub>a</sub> = 100 °C	I <sub>F(AV)</sub>			3.0			A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>		80		70		A
Max Instantaneous Forward Voltage at 3 A	V <sub>F</sub>	0.55	0.70		0.85	0.95	V
Maximum DC Reverse Current T <sub>a</sub> = 25°C at Rated DC Reverse Voltage T <sub>a</sub> = 100°C	I <sub>R</sub>	0.5 10		0.3 5			mA
Typical Junction Capacitance <sup>1)</sup>	C <sub>j</sub>	250		160			pF
Typical Thermal Resistance <sup>2)</sup>	R <sub>θJA</sub>		60				°C/W
Operating Junction Temperature Range	T <sub>j</sub>		-55 ~ +150				°C
Storage Temperature Range	T <sub>stg</sub>		-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.

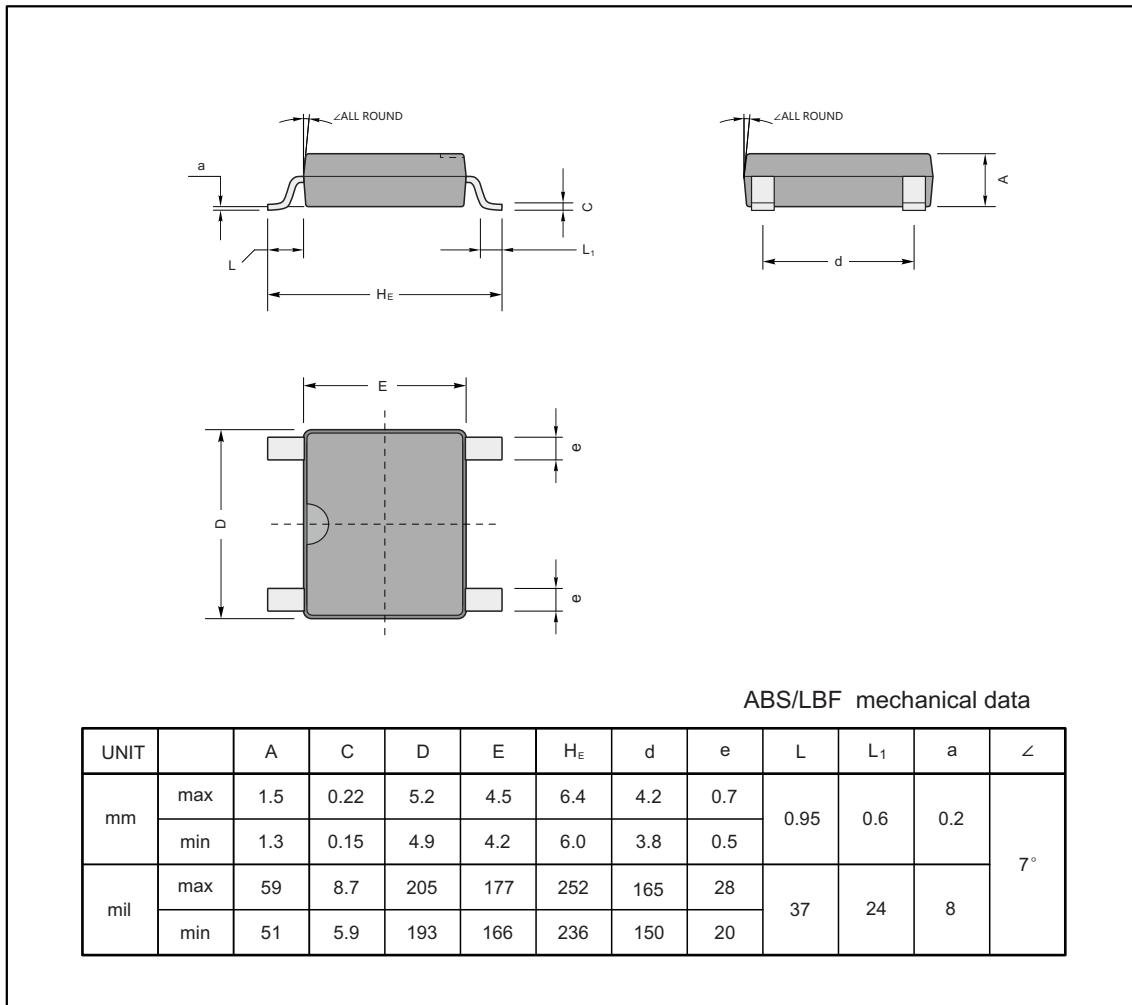




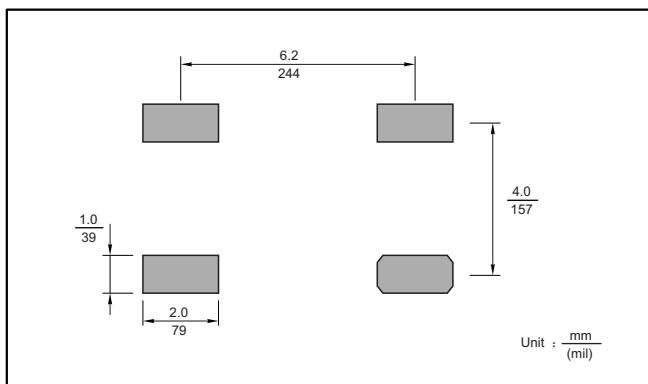
## PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



## The recommended mounting pad size



## Marking

Type number	Marking code
TB34S	TB34S
TB36S	TB36S
TB38S	TB38S
TB310S	TB310S
TB320S	TB320S

A small diagram of the package with the marking code TBxxS printed on it.