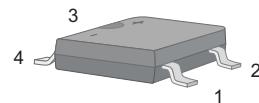


1A SURFACE MOUNT SCHOTTKY BRIDGE
1A SURFACE MOUNT SCHOTTKY BRIDGE
FEATURES:

- Reverse Voltage - 40 to 200 V
- Forward Current - 1.0 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 (-)



ABS/LBF Package

MECHANICAL DATA

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

Maximum Ratings and Electrical characteristics

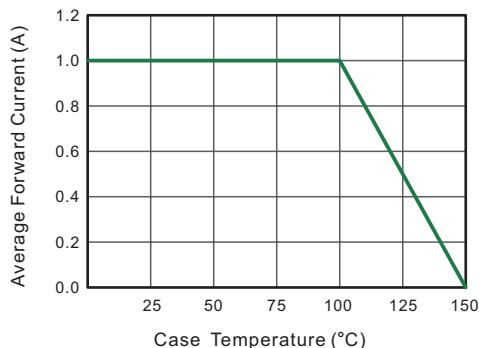
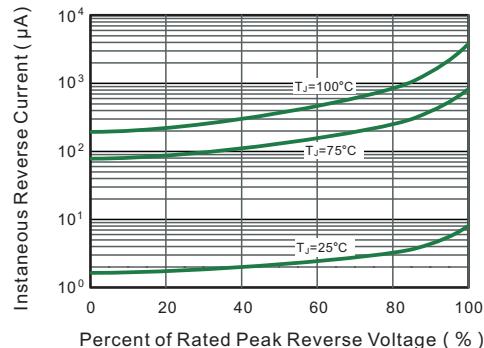
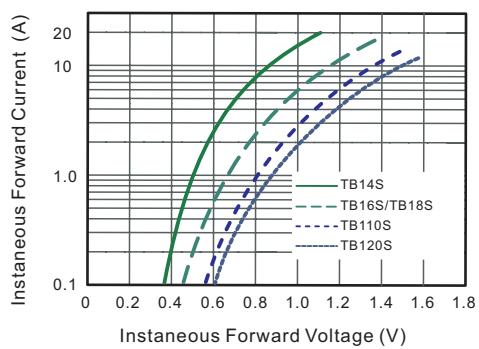
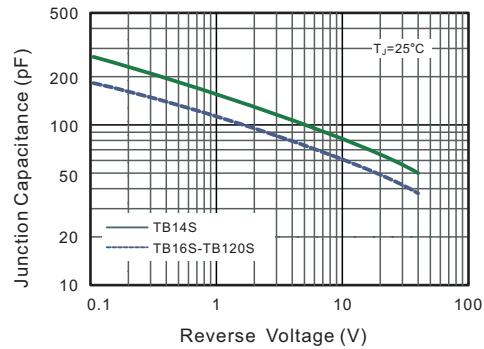
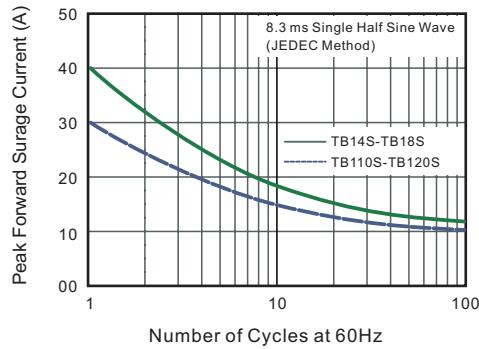
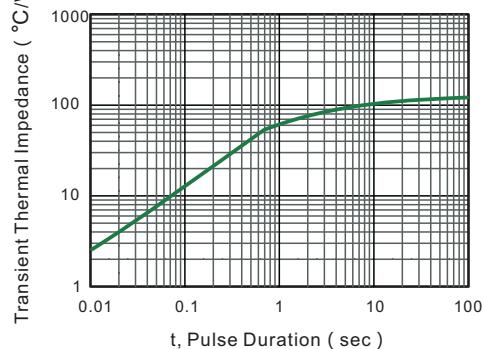
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	TB14S	TB16S	TB18S	TB110S	TB120S	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	60	80	100	200	V
Maximum RMS voltage	V _{RMS}	28	42	56	70	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	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	0.55	0.70		0.85		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	mA
Typical Junction Capacitance ¹⁾	C _j	110		80			pF
Typical Thermal Resistance ²⁾	R _{θJA}			95			°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.

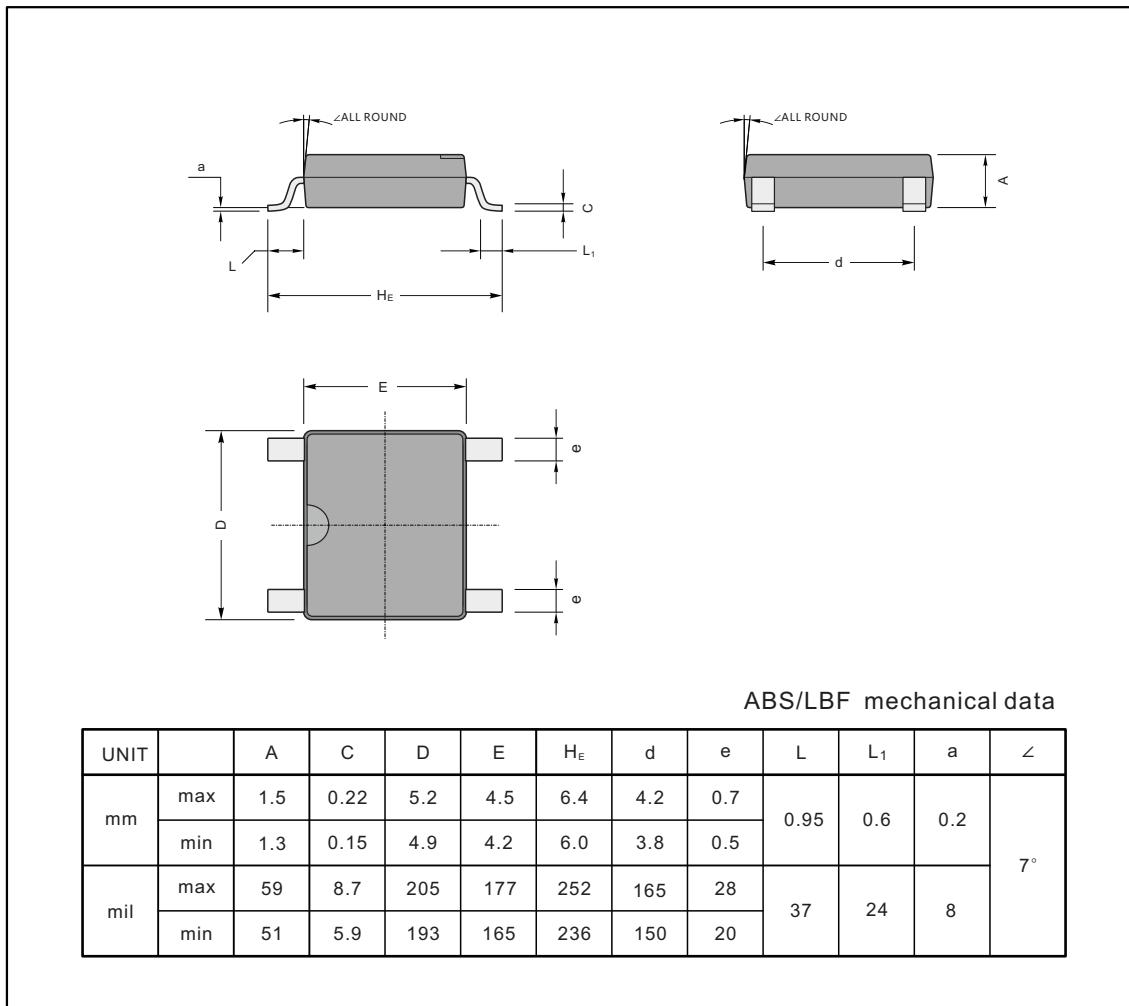
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Fig.1 Forward Current Derating Curve

Fig.2 Typical Reverse Characteristics

Fig.3 Typical Forward Characteristic

Fig.4 Typical Junction Capacitance

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

Fig.6- Typical Transient Thermal Impedance


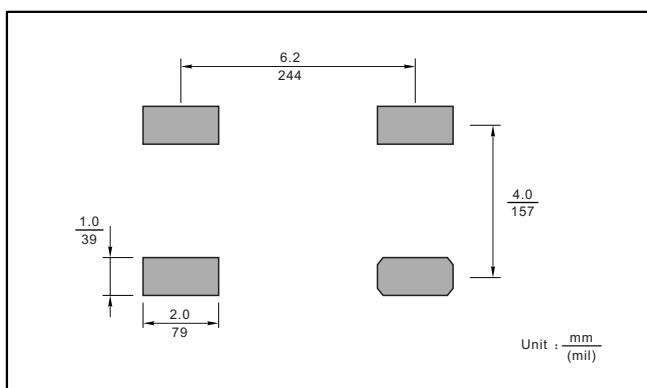
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



The recommended mounting pad size



Marking

Type number	Marking code
TB14S	TB14S
TB16S	TB16S
TB18S	TB18S
TB110S	TB110S
TB120S	TB120S

Diagram of the package with marking code TBxxS.