



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 (-)



ABF Package

MECHANICAL DATA

- Case: ABF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 82mg 0.0029oz

Maximum Ratings and Electrical characteristics

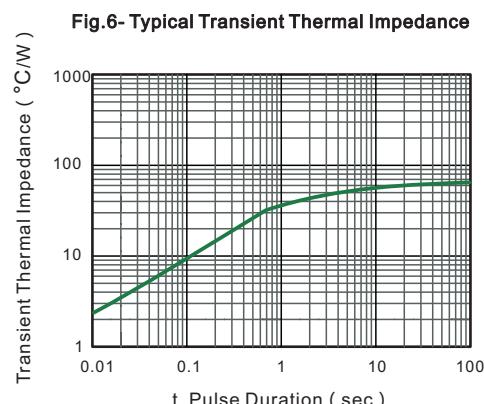
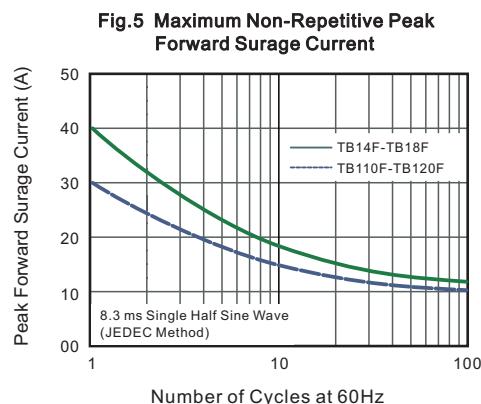
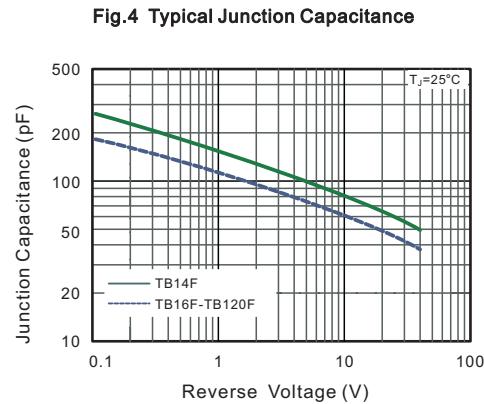
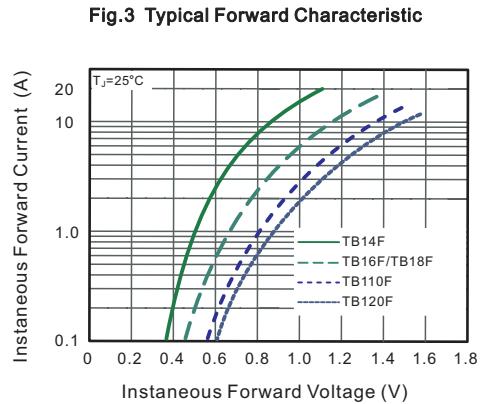
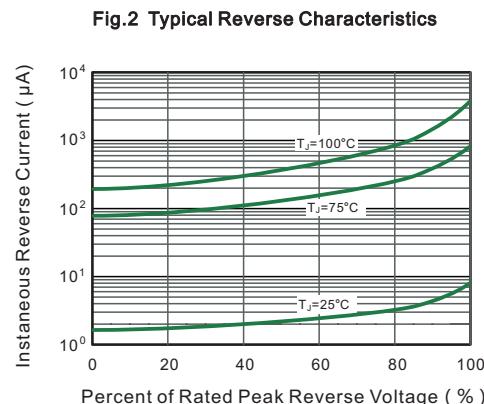
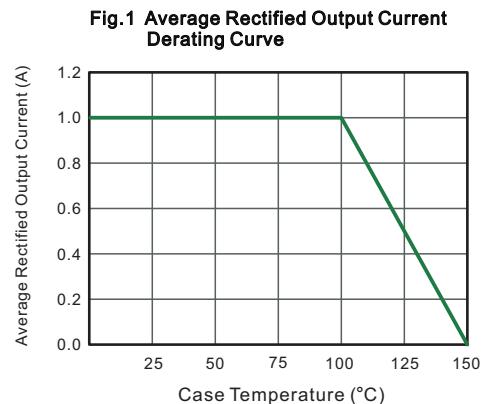
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	TB14F	TB16F	TB18F	TB110F	TB120F	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
Average Rectified Output Current at T _c = 100 °C	I _O			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 2	mA
Typical Junction Capacitance (Note:1)	C _j	110		80			pF
Typical Thermal Resistance (Note: 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.

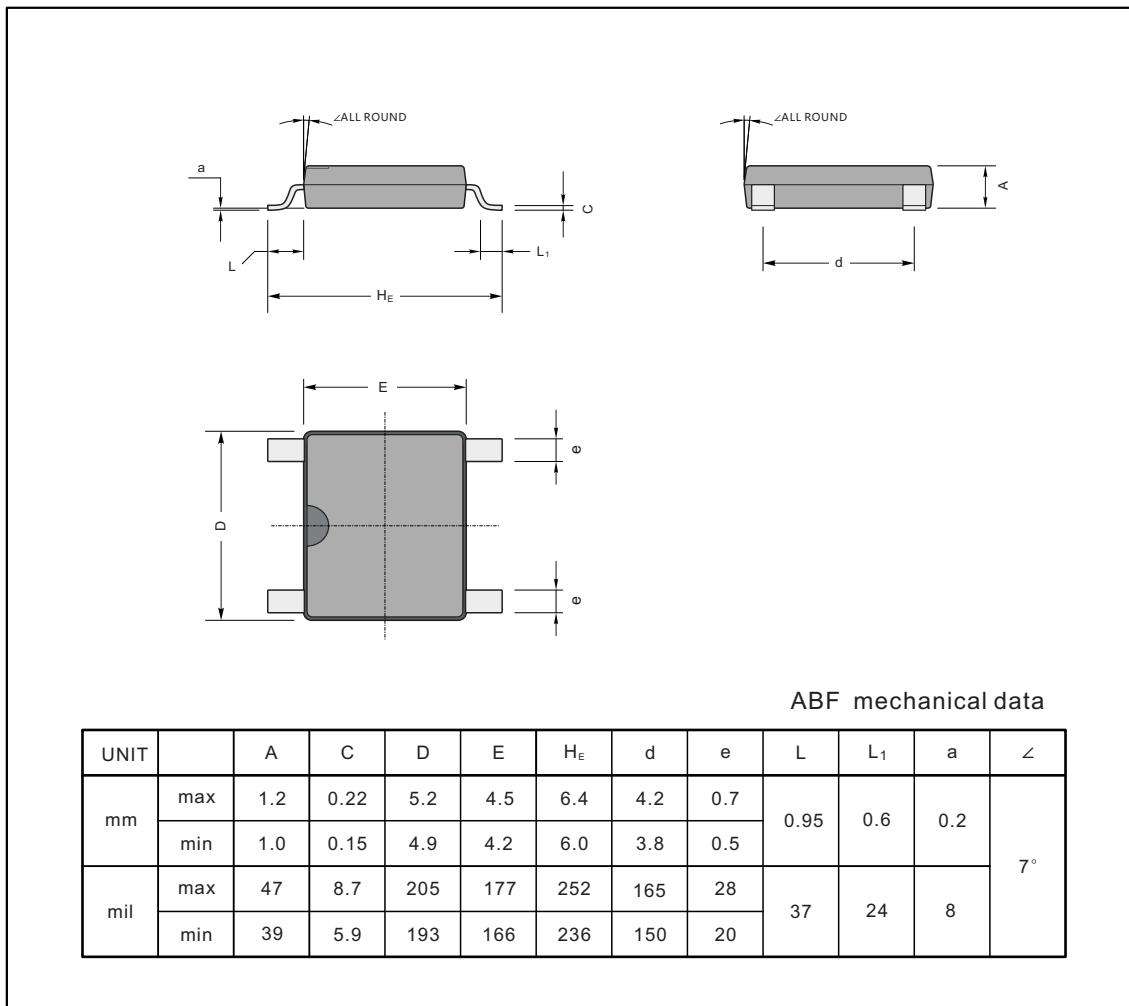




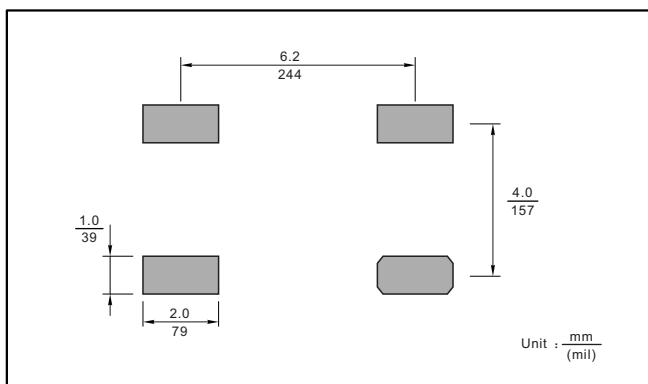
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABF



The recommended mounting pad size



Marking

Type number	Marking code
TB14F	TB14F
TB16F	TB16F
TB18F	TB18F
TB110F	TB110F
TB120F	TB120F