

2A SURFACE MOUNT SCHOTTKY BRIDGE

**FEATURES:**

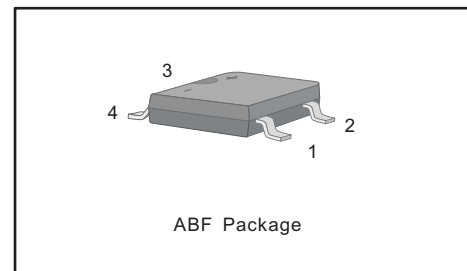
Reverse Voltage - 40 to 200 V  
Forward Current - 2 A  
High Surge Current Capability  
Designed for Surface Mount Application

**MECHANICAL DATA**

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

**PINNING**

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



**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	TB24F	TB26F	TB28F	TB210F	TB220F	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 $T_c = 100\text{ }^\circ\text{C}$	$I_{F(AV)}$	2.0					A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	50			40		A
Max Instantaneous Forward Voltage at 2A	$V_F$	0.55	0.70	0.85			V
Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100\text{ }^\circ\text{C}$	$I_R$	0.5 10			0.3 5		mA
Typical Junction Capacitance (Note:1)	$C_j$	220	80				pF
Typical Thermal Resistance (Note:2)	$R_{\theta JA}$	70					$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 ~ +150					$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ +150					$^\circ\text{C}$

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 Average Rectified Output Current Derating Curve

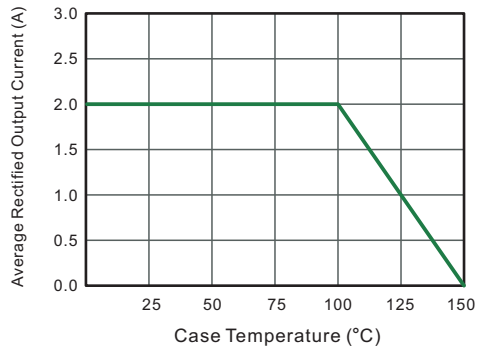


Fig.2 Typical Reverse Characteristics

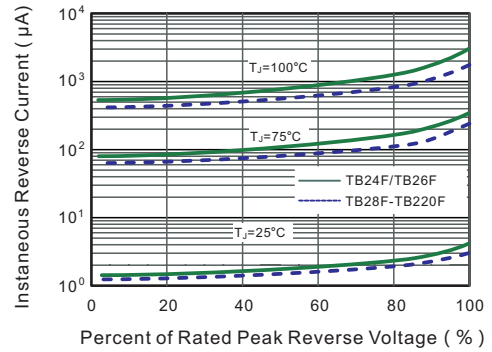


Fig.3 Typical Forward Characteristic

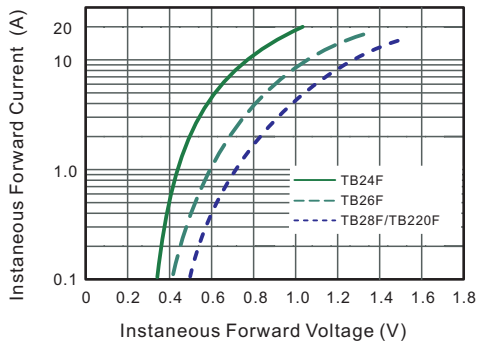


Fig.4 Typical Junction Capacitance

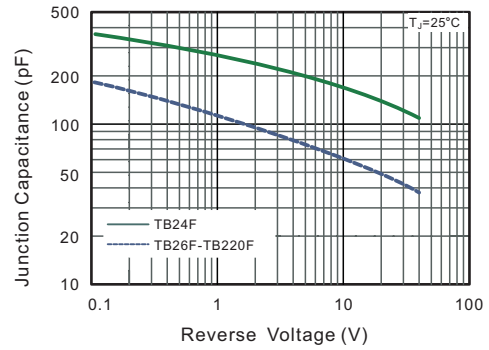
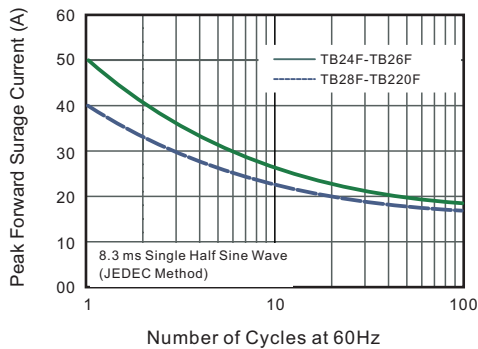


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

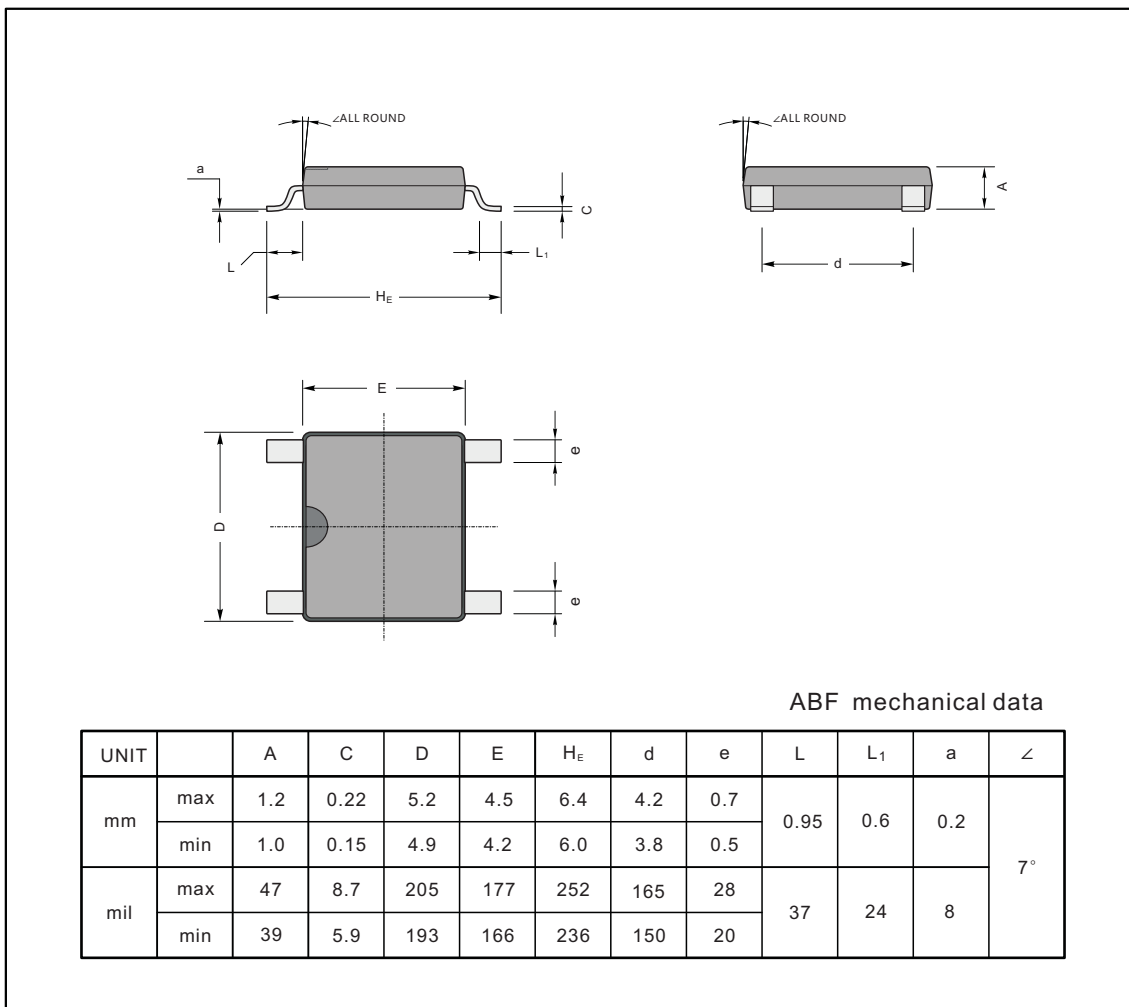




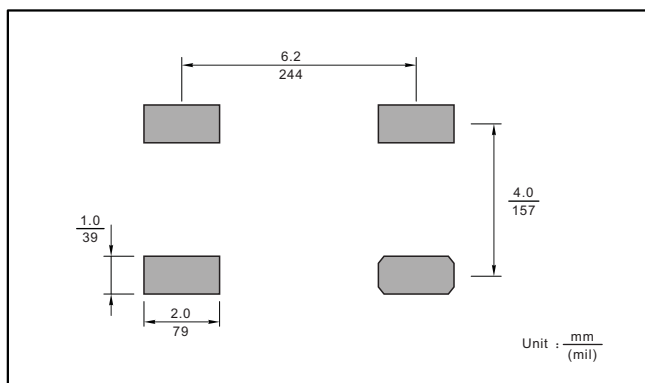
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABF



The recommended mounting pad size



Marking

Type number	Marking code
TB24F	TB24F
TB26F	TB26F
TB28F	TB28F
TB210F	TB210F
TB220F	TB220F