

## FEATURES:

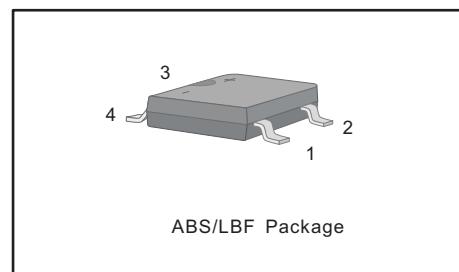
- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 1 A
- High Surge Current Capability
- Designed for Surface Mount Application

## MECHANICAL DATA

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

## PINNING

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



## Maximum Ratings and Electrical characteristics

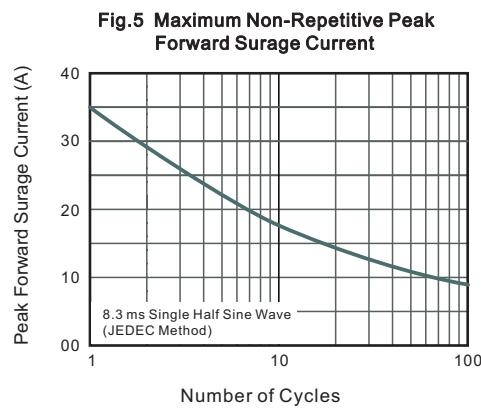
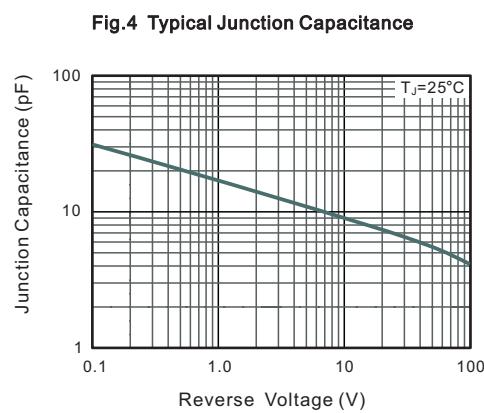
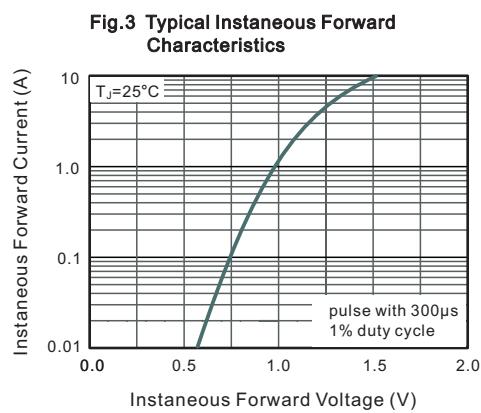
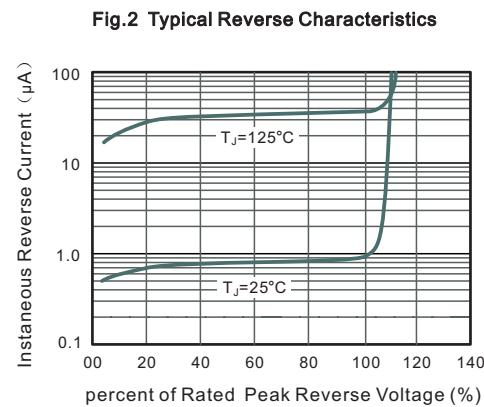
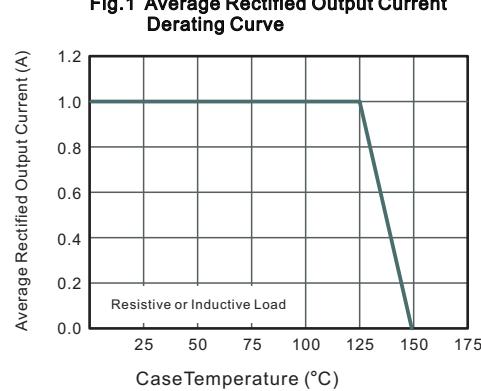
Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	TB1S-10	TB2S-10	TB4S-10	TB6S-10	TB8S-10	TB10S-10	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V
Average Rectified Output Current at T <sub>c</sub> = 125 °C	I <sub>o</sub>	1						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	35						A
Forward Voltage per element @ I <sub>F</sub> =1.0A	V <sub>F</sub>	1.1						V
Maximum DC Reverse Current @ T <sub>A</sub> =25 °C @ T <sub>A</sub> =100°C @ T <sub>A</sub> =125 °C	I <sub>R</sub>	5 50 100						µA
Typical Junction Capacitance ( Note1 )	C <sub>J</sub>	13						pF
Typical Thermal Resistance ( Note2 )	R <sub>θJA</sub> R <sub>θJC</sub>	72 20						°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 ~ +150						°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

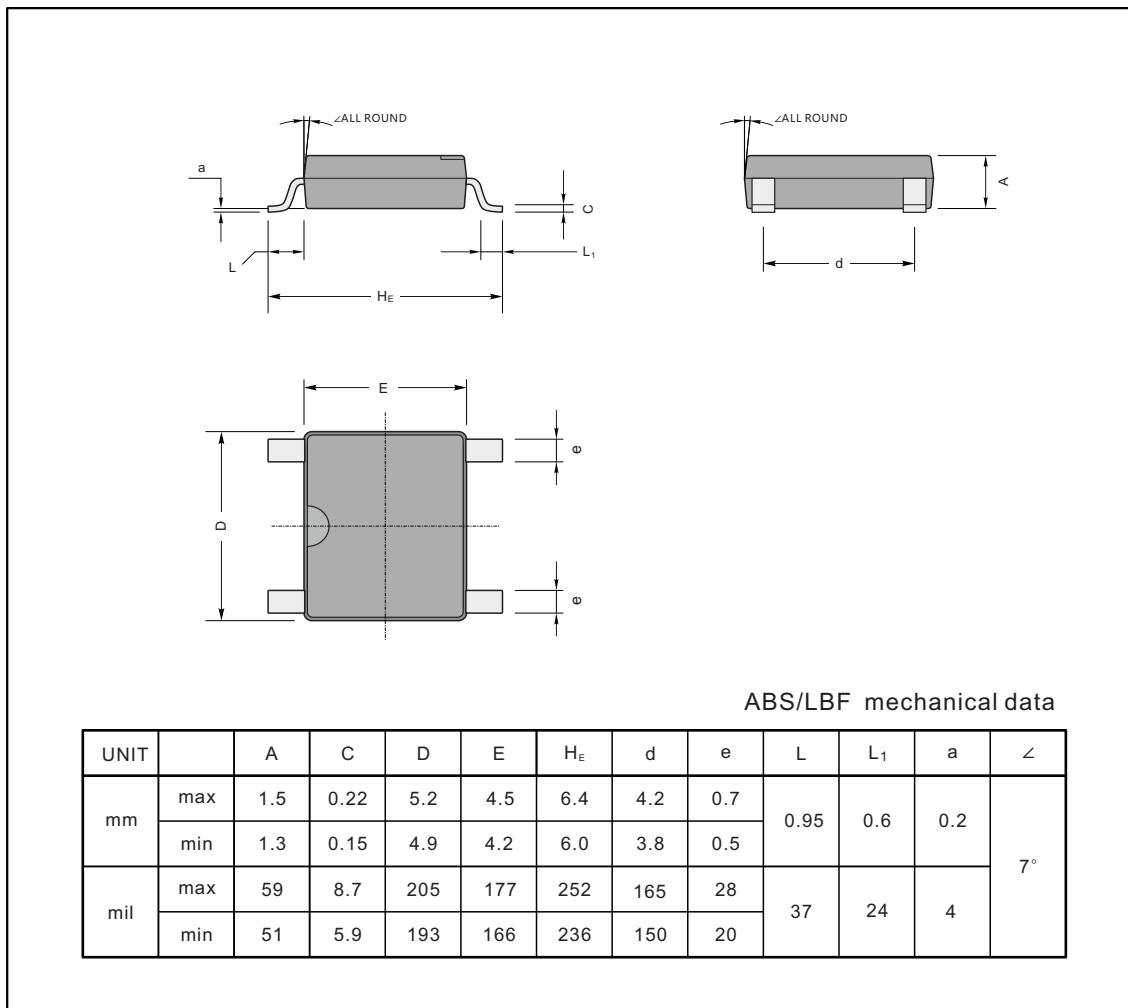
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" ( 3.81×3.81 cm ) copper pad.



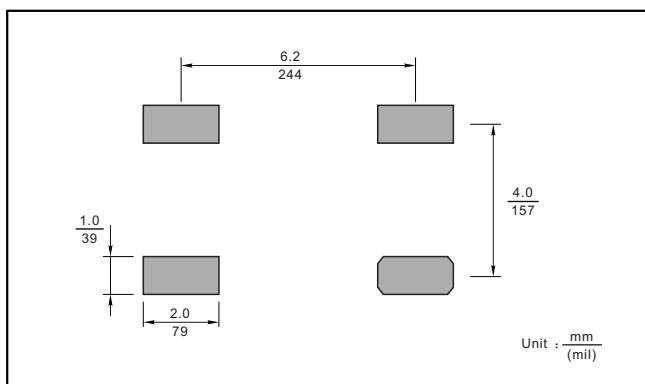
## PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



## The recommended mounting pad size



## Marking

Type number	Marking code
TB1S-10	10T1
TB2S-10	10T2
TB4S-10	10T4
TB6S-10	10T6
TB8S-10	10T8
TB10S-10	10T10

A small diagram of the package is shown with the marking code "10Txx" printed on it.