

FEATURES:

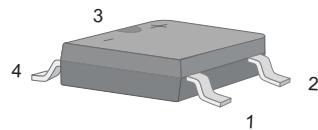
Glass Passivated Chip Junction
 Reverse Voltage - 40 to 200 V
 Forward Current - 3 A
 High Surge Current Capability
 Designed for Surface Mount Application

MECHANICAL DATA

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg 0.0029oz

PINNING

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



ABS/LBF Package

Maximum Ratings and Electrical characteristics

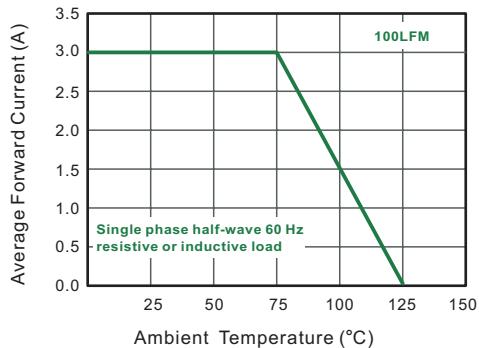
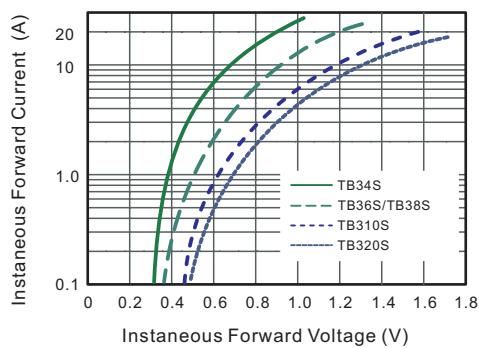
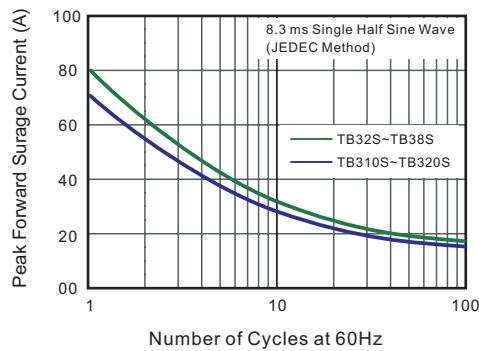
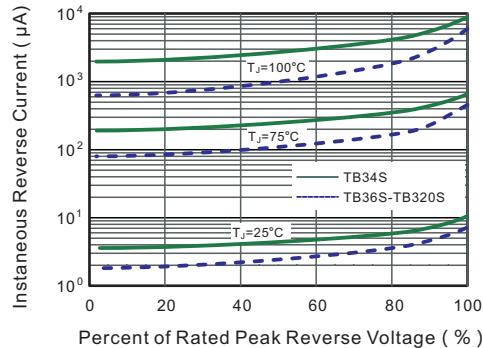
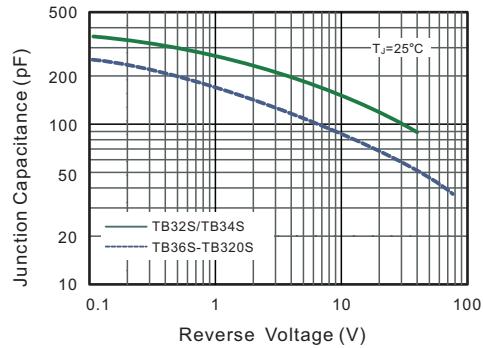
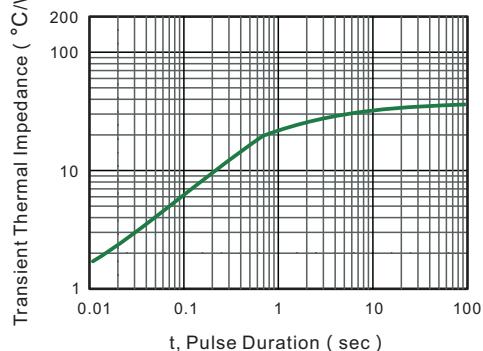
Ratings at 25 °C ambient temperature unless otherwise specified.

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_{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	$I_{F(AV)}$	3.0					A						
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	80		70			A						
Max Instantaneous Forward Voltage at 3 A	V_F	0.55	0.70	0.85		0.95	V						
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$	I_R	0.5 10	0.3 5				mA						
Typical Junction Capacitance ¹⁾	C_j	250	160				pF						
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	40					°C/W						
Operating Junction Temperature Range	T_j	-55 ~ +125					°C						
Storage Temperature Range	T_{stg}	-55 ~ +150					°C						

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

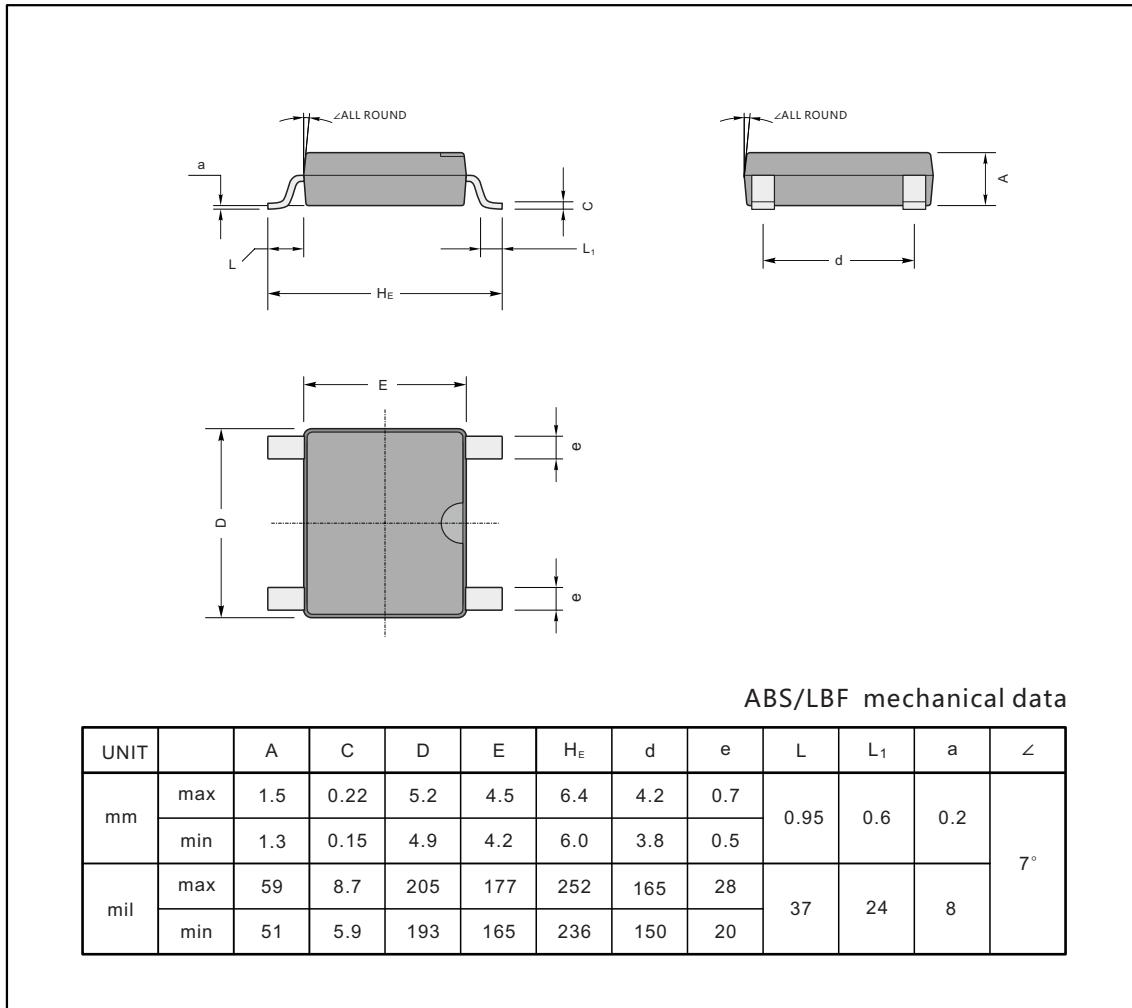
2. Mounted on glass epoxy PC board with 1.3mm² copper pad.

Fig.1 Forward Current Derating Curve

Fig.3 Typical Forward Characteristic

Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

Fig.2 Typical Reverse Characteristics

Fig.4 Typical Junction Capacitance

Fig.6-Typical Transient Thermal Impedance


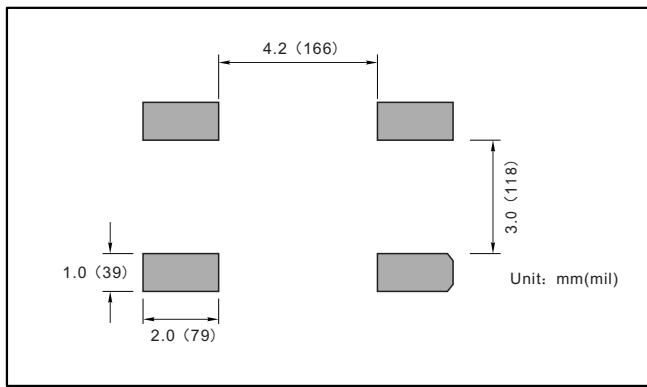
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



The recommended mounting pad size



Marking

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

Diagram of the component showing the marking code TBxxS.