















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	TB1S THRU TB10S
Overseas Part Number	TB1S THRU TB10S
▶ Equivalent Part Number	TB1S THRU TB10S





0.8A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

- Glass Passivated Chip Juntion
- Reverse Voltage 50 to 1000 V
- Forward Current 0.8 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

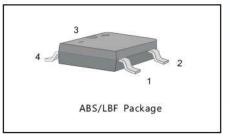
• Case: ABS/LBF

• 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 (-)			



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	TB2S	TB4S	TB6S	TB8S	TB10S	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	200	400	600	800	1000	٧
Maximum RMS voltage	V _{RMS}	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at Ta = 40 °C	lo	0.8						
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	25						А
Forward Voltage per element @I _F = 0.4A @I _F =0.8A	V _F				.0			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $@T_x=25 \text{ °C}$ $@T_x=10 \text{ °C}$ $@T_x=125 \text{ °C}$	I _R	5.0 100 500						μА
Typical Junction Capacitance (Note1)	Cj	13						pF
Typical Thermal Resistance (Note2)	R _{eja} R _{ejl}	80 16						°C/W
Operating and Storage Temperature Range	T_j , 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 Average Rectified Output Current **Derating Curve** 1.2 Average Rectified Output Current (A) 1.0 Al. Substrate PC Board 0.8 0.6 Glass Epoxy PC Board 0.4 0.2 Resistive or Inductive Load 0.0 100 150 175 Ambient Temperature (°C)

Fig.3 Typical Instaneous Forward Characteristics

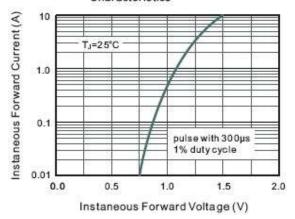


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

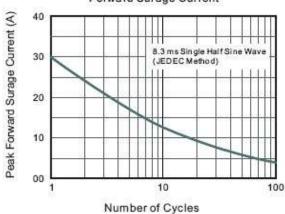


Fig.2 Typical Reverse Characteristics

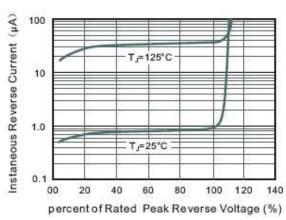
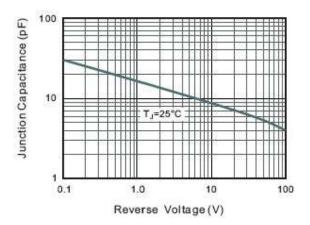


Fig. 4 Typical Junction Capacitance

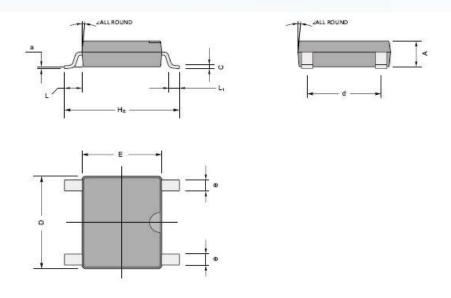




PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

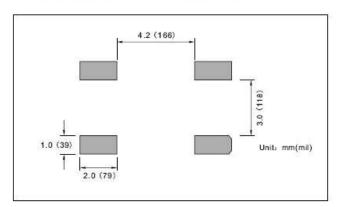
ABS/LBF



ABS/LBF mechanical data

UNIT		Α	С	D	E	He	d	е	L	L ₁	а	4
	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.05	0.6	0.2	70
mm	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5	0.95			
	max	59	8.7	205	177	252	165	28		0.4		,
mil	min	51	5.9	193	166	236	150	20	37	24	4	

The recommended mounting pad size



Marking

Type number	Marking code				
TB1S	TB1S				
TB2S	TB2S				
TB4S	TB4S				
TB6S	TB6S				
TB8S	TB8S				
TB10S	TB10S				
ТВ	xxS				



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