

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

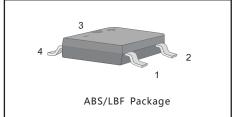
TB1S - TB10S

VOLTAGE RANGE - 100 to 1000 V CURRENT - 0.8 A

FEATURES

- Glass Passivated Chip Juntion
- Reverse Voltage 100 to 1000 V
- Forward Current 0.8 A
- High Surge Current Capability
- Designed for Surface Mount Application

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



MECHANICAL DATA

■ Case: ABS/LBF

■ Terminals: Solderable per MIL-STD-750, Method 2026

■ Approx. Weight: 88mg 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	TB1S	TB2S	TB4S	TB6S	TB8S	TB10S	Units
Maximum Repetitive Peak Reverse Voltage	$V_{\scriptscriptstyle RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{\scriptscriptstyle RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	100	200	400	600	800	1000	V
Average Rectified Output Current at Ta = 40 °C	$I_{\rm O}$	0.8						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{ ext{FSM}}$	30						A
Forward Voltage per element	$V_{\scriptscriptstyle F}$	1.0 1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage $@T_A=25 \text{ °C}$ $@T_{\overline{a}}=100\text{ °C}$ $@T_A=125 \text{ °C}$	I_R	5.0 100 500					μА	
Typical Junction Capacitance (Note1)	C_j	13					pF	
Typical Thermal Resistance (Note2)	$R_{\theta JA} \\ R_{\theta JL}$	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.

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RATING AND CHRACTERISTIC CURVES TB1S - TB10S

Fig.1 Average Rectified Output Current Derating Curve

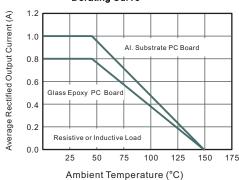


Fig.2 Typical Reverse Characteristics

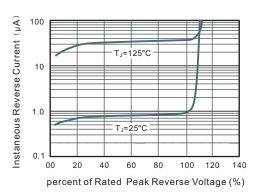


Fig.3 Typical Instaneous Forward Characteristics

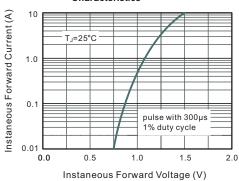


Fig.4 Typical Junction Capacitance

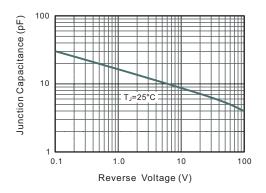
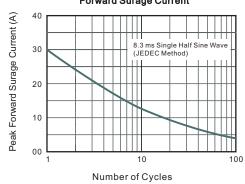


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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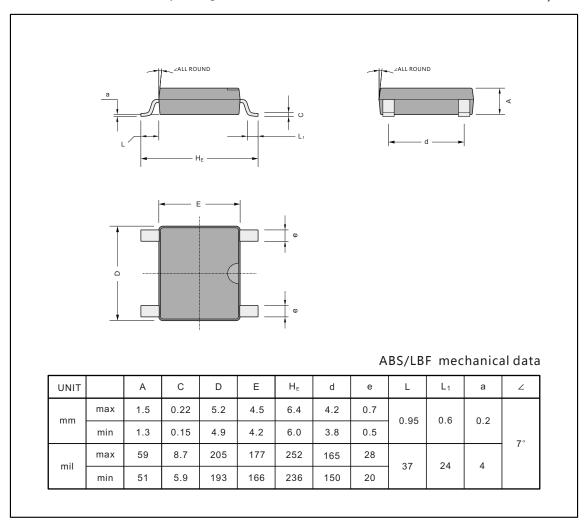
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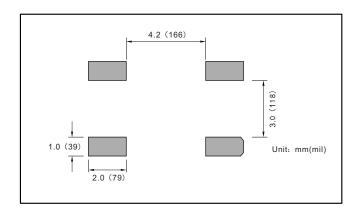
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



The recommended mounting pad size



Marking

Type number	Marking code				
TB1S	TB1S				
TB2S	TB2S				
TB4S	TB4S				
TB6S	TB6S				
TB8S	TB8S				
TB10S	TB10S				
TBxxS					

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