

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

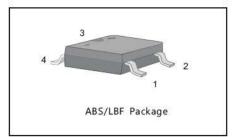
• Case: ABS/LBF

• 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	V
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	1.0 1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage $@T_x=25 ^{\circ}\text{C}$ $@T_x=100^{\circ}\text{C}$ $@T_x=125^{\circ}\text{C}$	I _R	5.0 100 500						μА
Typical Junction Capacitance (Note1)	Cı	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.

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Conscious Products Begin With Conscious People





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Fig.1 Average Rectified Output Current Derating Curve

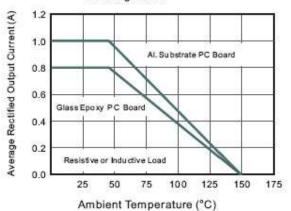


Fig.3 Typical Instaneous Forward Characteristics

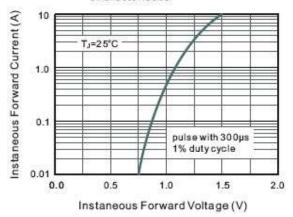


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

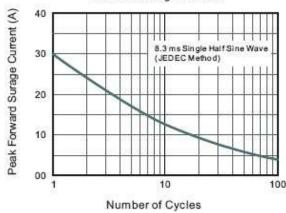


Fig.2 Typical Reverse Characteristics

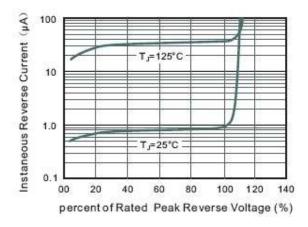
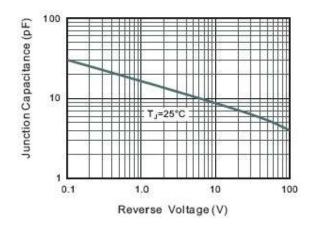


Fig. 4 Typical Junction Capacitance



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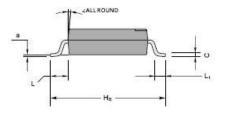


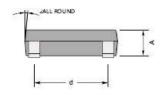
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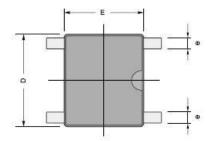
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF-标



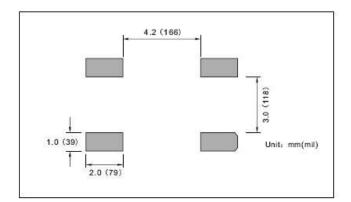




ABS/LBF mechanical data

UNIT		Α	С	D	E	He	d	е	L	L ₁	а	4
mm	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.05	0.6	0.0	
mm	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5	0.95	0.6	0.2	770
500.4400	max	59	8.7	205	177	252	165	28		0.4	9	,
mil	min	51	5.9	193	166	236	150	20	37	24	4	

The recommended mounting pad size



Marking

Marking code				
TB1S				
TB2S				
TB4S				
TB6S				
TB8S				
TB10S				
TB6S TB8S				

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