

1.2A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER
Feature

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current – 1.2A
- High Surge Current Capability
- Designed for Surface Mount Application

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	Symbol	TB1 S-12	TB2 S-12	TB4 S-12	TB6 S-12	TB8 S-12	TB10 S-12	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
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 $T_a = 40\text{ }^{\circ}\text{C}$	I_o	1.2						A
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load(JEDEC Method)	I_{FSM}	50						A
Maximum Forward Voltage at 1.2A	V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_a=25^{\circ}\text{C}$ $T_a=125^{\circ}\text{C}$	I_R	5.0 100						μA
Typical Junction Capacitance (Note1)	C_j	13						PF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$ $R_{\theta JL}$	160 25						$^{\circ}\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						$^{\circ}\text{C}$

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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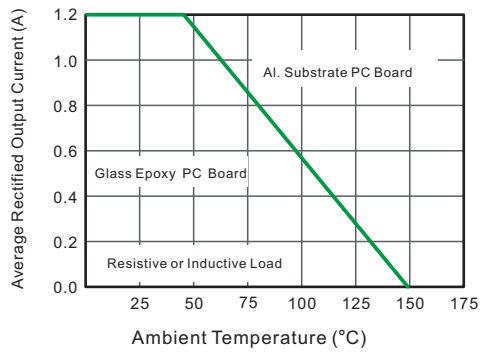


Fig.1 Average Rectified Output Current Derating Curve

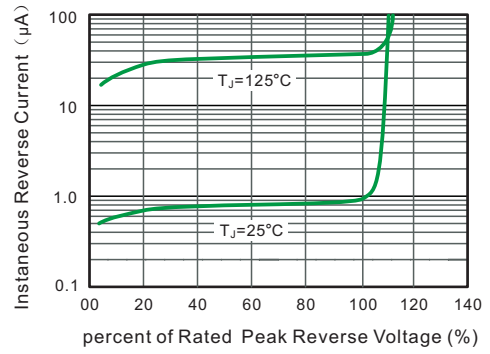


Fig.2 Typical Reverse Characteristics

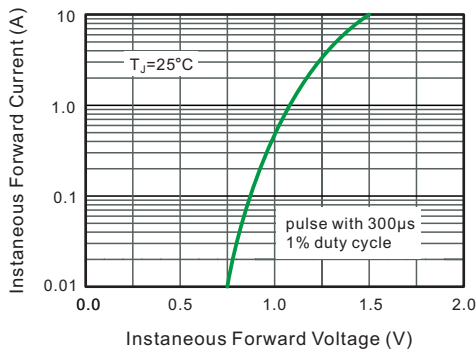


Fig.3 Typical Instantaneous Forward Characteristics

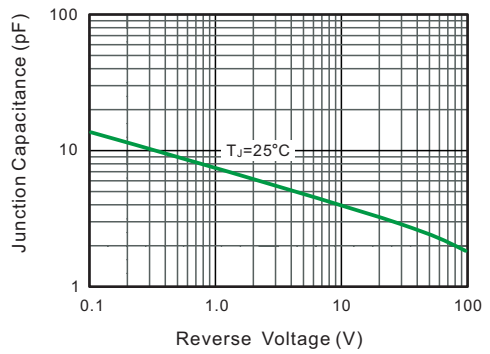


Fig.4 Typical Junction Capacitance

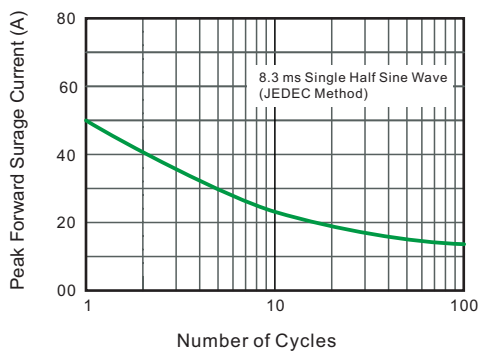
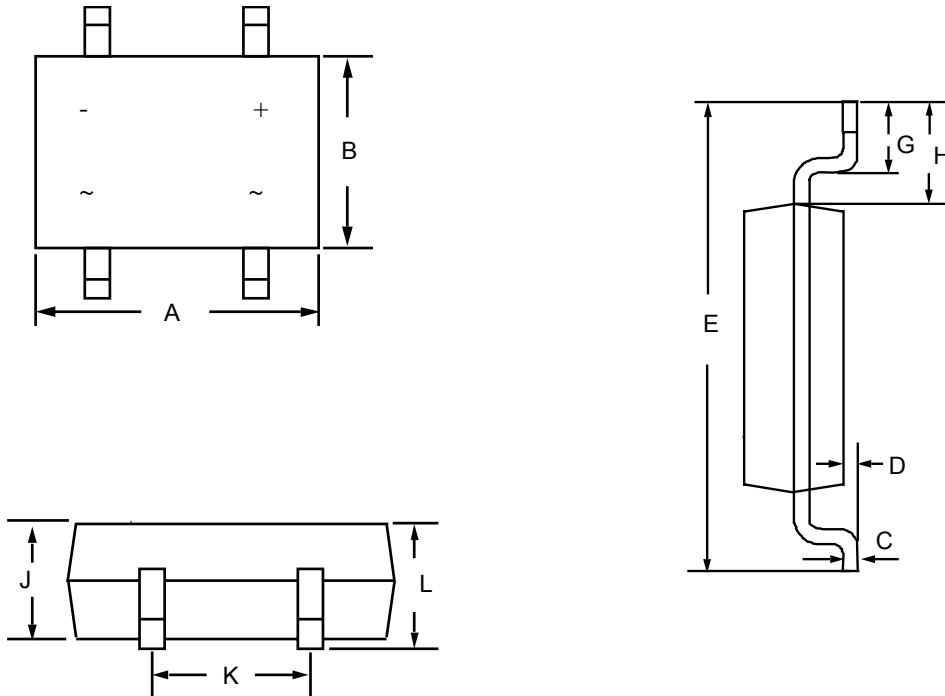


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

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Product dimension (ABS)




Dimension	Millimeters	
	MIN	MAX
A	4.90	5.30
B	4.30	4.80
C	0.15	0.25
D	0.05	0.15
E	6.00	6.40
G	0.30	0.80
H	0.80	1.20
J	1.20	1.40
K	3.80	4.20
L	--	1.50

Ordering information

Device	Package	Shipping
TB1S-12~TB10S-12	ABS (Pb-Free)	5000 / Tape & Reel

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