

FTB1S-10AT THRU FTB10S-10AT

SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

Forward Current-1.0A

Reverse Voltage-100V to 1000V

FEATURES

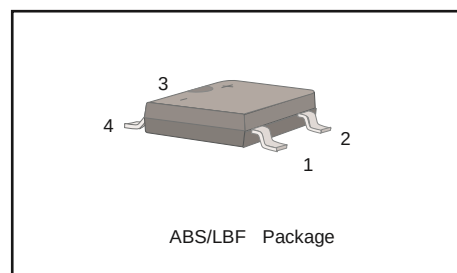
- ◆ For surface mount applications
- ◆ Glass passivated chip junction
- ◆ Ultrafast reverse recovery time

MECHANICAL DATA

- ◆ Case: ABS/LBF molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750 , Method 2026
- ◆ Weight: Approximated 0.088 grams

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 derating by 20 %.

PARAMETER	SYMBOL	FTB1S -10AT	FTB2S -10AT	FTB4S -10AT	FTB6S -10AT	FTB8S -10AT	FTB10S -10AT	UNIT
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
Maximum Average Forward Rectified Current at $T_C=125^{\circ}C$	$I_{F(AV)}$	1.0						A
Peak Forward Surge Current (Note1)	I_{FSM}	35						A
Maximum Forward Voltage at 1.0A	V_F	1.3						V
Maximum DC Reverse Current at Rated DC Blocking Voltage at $T_A=25^{\circ}C$ $T_A=125^{\circ}C$	I_R	5 50						μA
Typical Junction Capacitance (Note2)	C_J	13						pF
Maximum Reverse Recovery Time (Note3)	T_{rr}	300						nS
Typical Thermal Resistance (Note4)	$R_{\theta JA}$	72						$^{\circ}C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150						$^{\circ}C$

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

2. Measured at 1MHz and applied reverse voltage of 4 V D.V.

3. Measured with $I_F=0.5A, I_R=1A, I_{rr}=0.25A$.

4. Mounted on 1.5" X 1.5" (3.81 X 3.81 cm) copper pad areas.

Dated: 05/2016

Rev:1.0

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Average Rectified Output Current Derating Curve

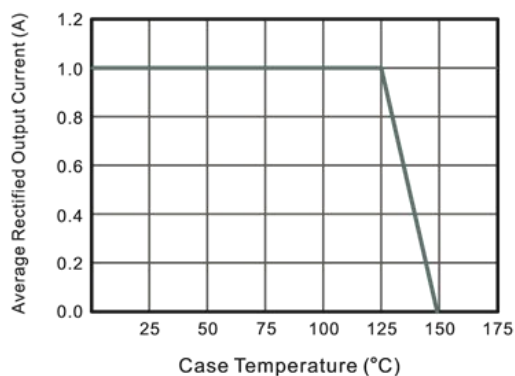


Fig.2 Typical Reverse Characteristics

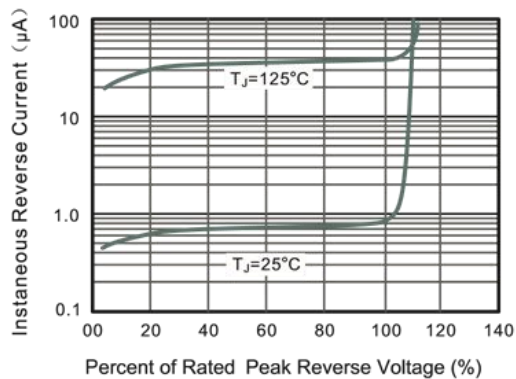


Fig.3 Typical Instantaneous Forward Characteristics

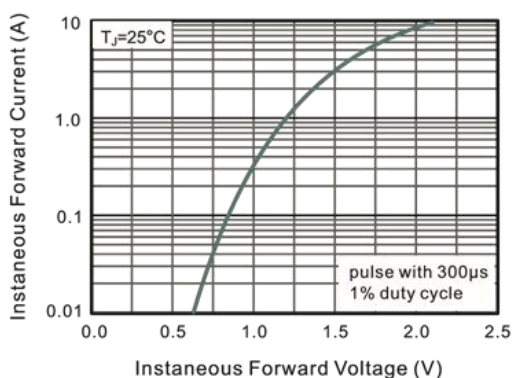


Fig.4 Typical Junction Capacitance

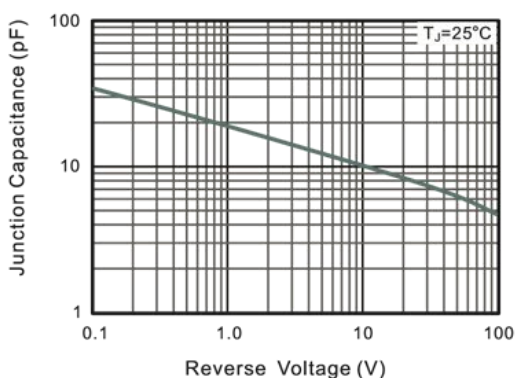
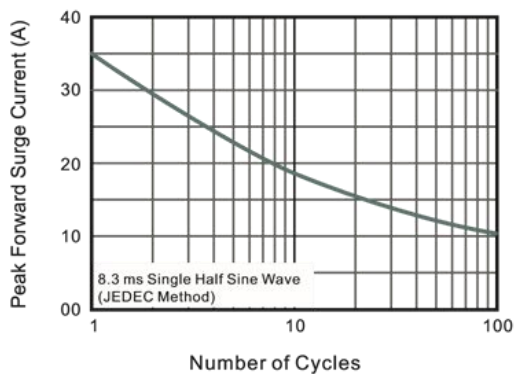


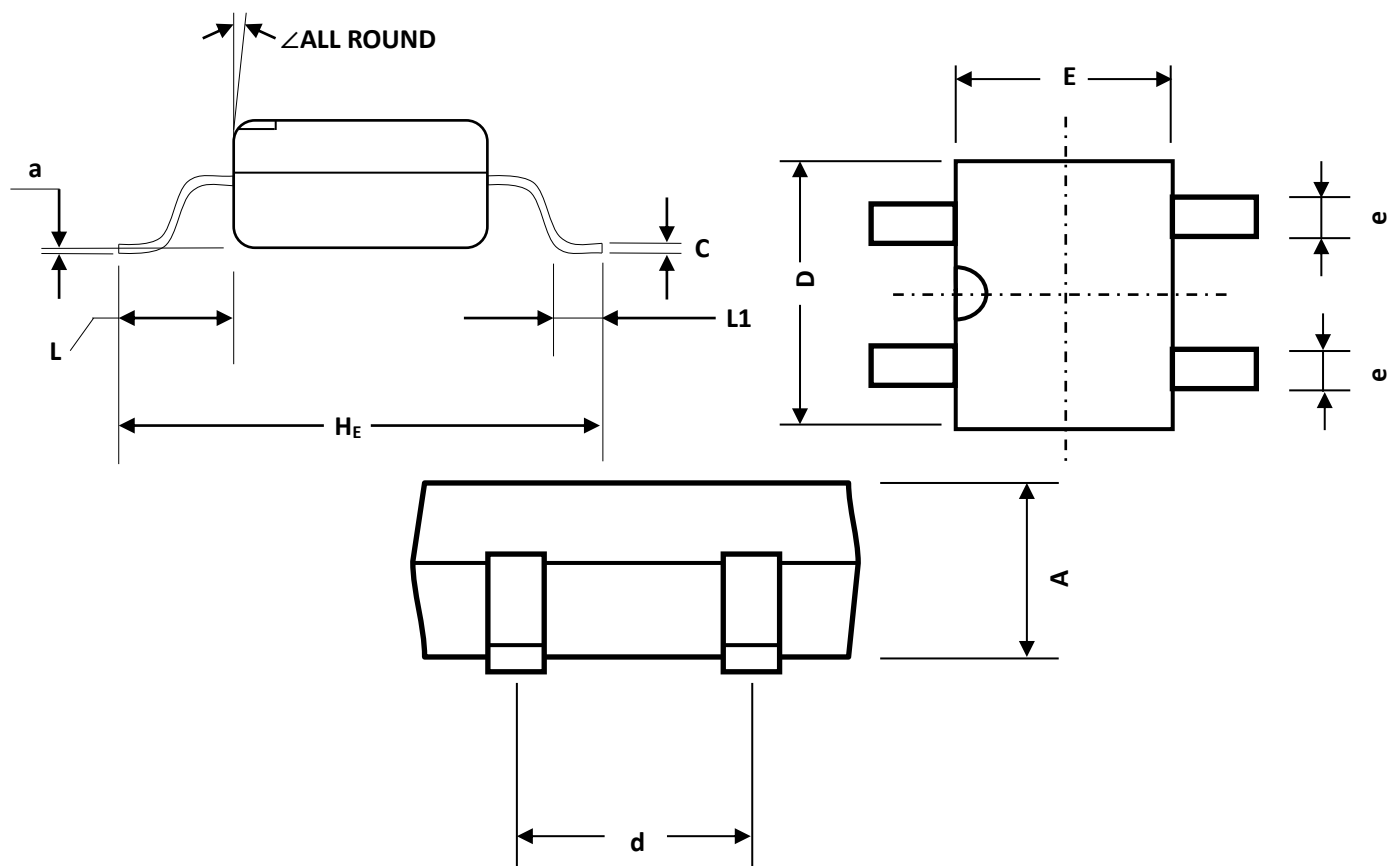
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



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PACKAGE OUTLINE

ABS/LBF



ABS/LBF mechanical data

UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	∠
mm	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.2	7°
	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5				
mil	max	59	8.7	205	177	252	165	28	37	24	8	
	min	51	5.9	193	166	236	150	20				

ORDERING INFORMATION

Device	Package	Shipping
FTB1S-10AT thru FTB10S-10AT	ABS/LBF	3,000/Tape & Reel (11 inches)
		5,000/ Tape & Reel (13 inches)