

Green Products

FTB1F-15F THRU FTB10F-15F 1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

Features:

- Glass Passivated Chip Junction
- Reverse Voltage 100 to 1000 V
- Forward Current 1.5 A
- Designed for Surface Mount Application
- Fast reverse recovery time
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

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

Mechanical Data:

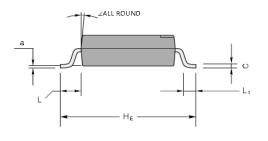
Case: ABF

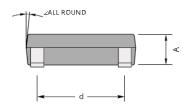
• Terminals: Solderable per MIL-STD-750, Method 2026

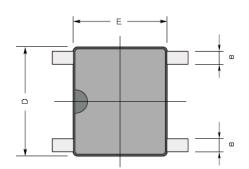
Weight: 82 mg



Mechanical Dimensions: In mm/mil







UNIT		А	С	D	Е	HE	d	е	L	L ₁	а	_
mm	max	1.2	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.2	· 7°
	min	1.0	0.15	4.9	4.2	6.0	3.8	0.5	0.50			
mil	max	47	8.7	205	177	252	165	28	37	24	4	
	min	39	5.9	193	166	236	150	20	3/			

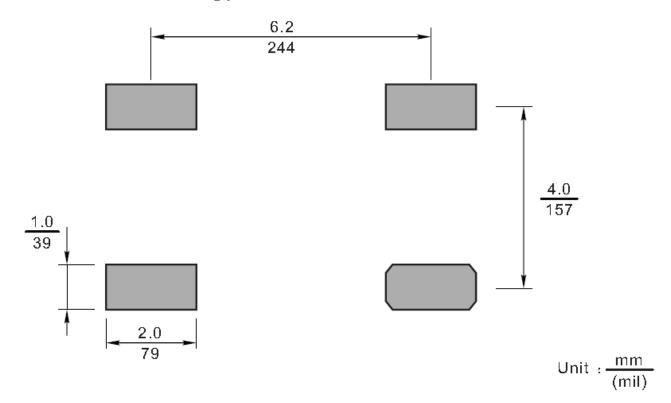
ABF

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The recommended mounting pad size:



Marking Diagram:

Type number	Marking code							
FTB1F-15F	F15F1F							
FTB2F-15F	F15 F2F							
FTB4F-15F	F15F4F							
FTB6F-15F	F15F6F							
FTB8F-15F	F15F8F							
FTB10F-15F	F15F10F							
F15FxxF								

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Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	FTB1F -15F	FTB2F -15F	FTB4F -15F	FTB6F -15F	FTB8F -15F	FTB10F -15F	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 =50 ℃		1.5						Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50					А	
Maximum instantaneous forward voltage at 1.5A	V _F				1.3			V
Maximum DC reverse current T_A =25 $^{\circ}$ C at rated DC blocking voltage T_A =125 $^{\circ}$ C	I _R	5.0 100					μΑ	
Typical Junction Capacitance (Note 1)	CJ	25						pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	80						°C/W
Maximum Reverse Recovery Time (Note 3)		500 300					ns	
Junction Temperature	T _{rr(TYP.)}	-55 to +150					°C	
Storage Temperature Range		-55 to +150					°C	

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

- 2. Mounted on glass epoxy PC board with $4 \times (5 \times 5 \text{mm}^2)$ copper pad.
- 3. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A



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Fig.1 Average Rectified Output Current Derating Curve

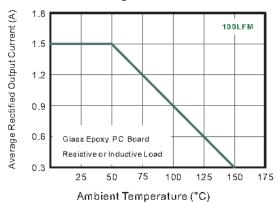


Fig.2 Typical Reverse Characteristics

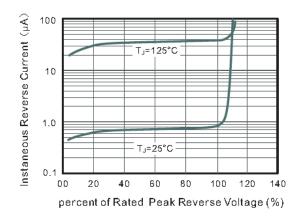


Fig.3 Typical Instaneous Forward Characteristics

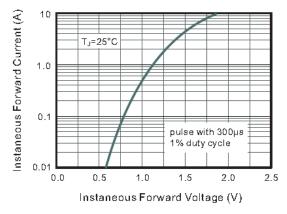


Fig.4 Typical Junction Capacitance

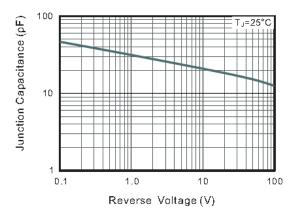
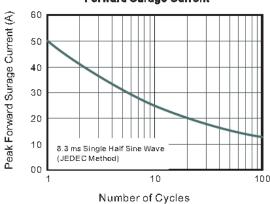


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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Technical Data Data Sheet N1743, Rev. - **Green Products**

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