



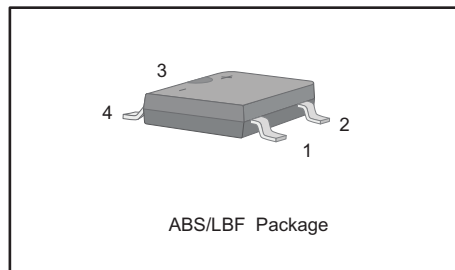
1.5A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

FEATURES:

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 1.5 A
- Fast reverse recovery time
- Designed for Surface Mount Application

PINNING

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



MECHANICAL DATA

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg 0.0031oz

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 | FTB1S-15 | FTB2S-15 | FTB4S-15 | FTB6S-15 | FTB8S-15 | FTB10S-15 | 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 $T_c = 125\text{ }^\circ\text{C}$ | I_O | 1.5 | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load | I_{FSM} | 50 | | | | | | A |
| Maximum Forward Voltage at 1.5 A | V_F | 1.3 | | | | | | V |
| Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 125\text{ }^\circ\text{C}$ | I_R | 5.0 100 | | | | | | μA |
| Typical Junction Capacitance (Note1) | C_j | 30 | | | | | | pF |
| Typical Thermal Resistance (Note2) | $R_{\theta JA}$ | 65 16 | | | | | | $^\circ\text{C/W}$ |
| Maximum Reverse Recovery Time (Note3) | t_{rr} | 200 | | | | | | ns |
| Operating and Storage Temperature Range | $T_j T_{stg}$ | -55 ~ +150 | | | | | | $^\circ\text{C}$ |

Note: 1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
 2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.
 3. Measured with $I_F = 0.5\text{ A}$, $I_R = 1\text{ A}$, $I_{rr} = 0.25\text{ A}$.



Fig.1 Average Rectified Output Current Derating Curve

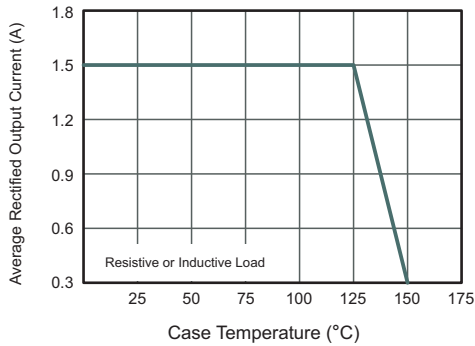


Fig.2 Typical Reverse Characteristics

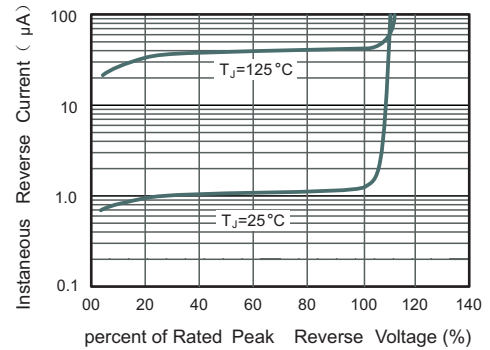


Fig.3 Typical Instantaneous Forward Characteristics

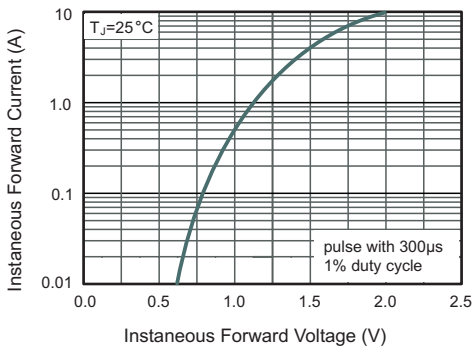


Fig.4 Typical Junction Capacitance

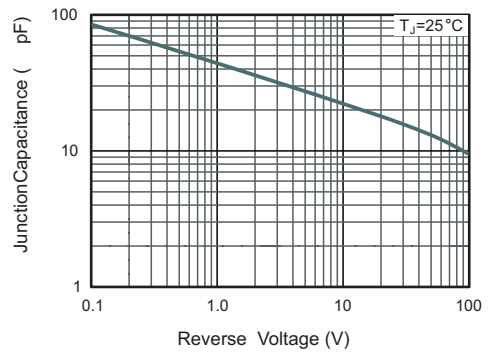
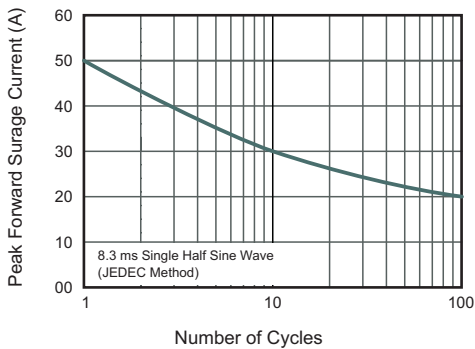


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

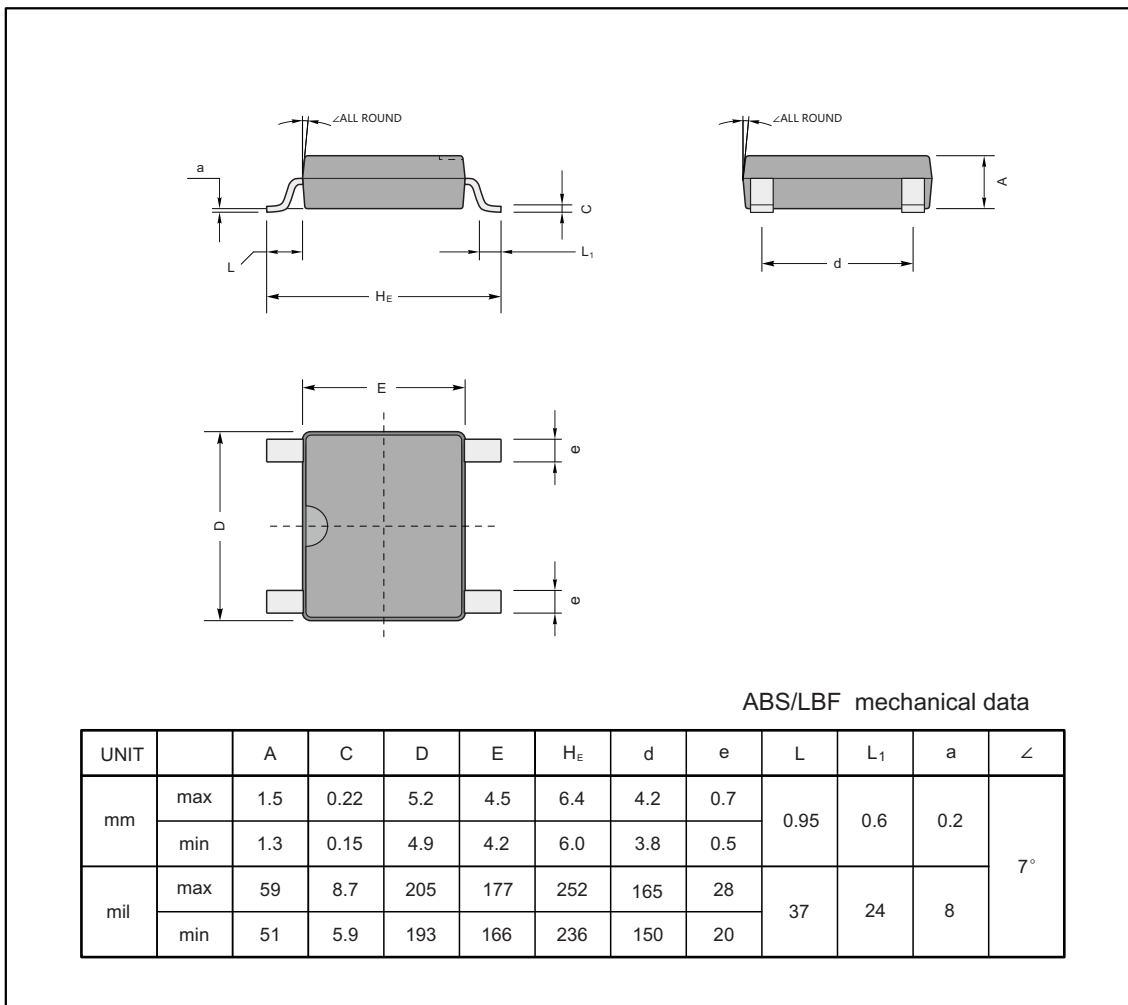




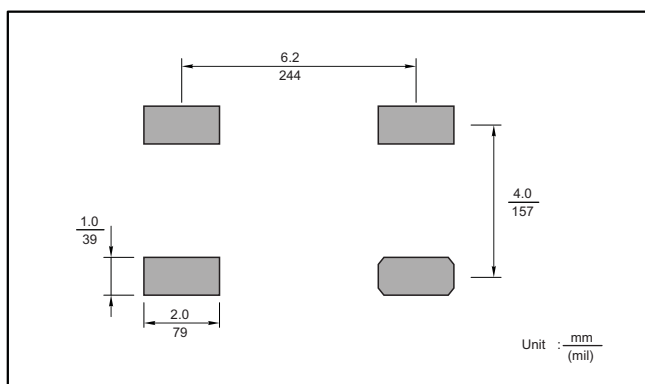
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS/LBF



The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| FTB1S-15 | F15T01 |
| FTB2S-15 | F15T02 |
| FTB4S-15 | F15T04 |
| FTB6S-15 | F15T06 |
| FTB8S-15 | F15T08 |
| FTB10S-15 | F15T10 |