



8A SURFACE MOUNT BRIDGE RECTIFIER

FEATURES:

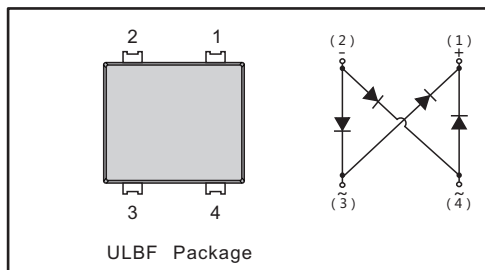
- Reverse Voltage - 800 & 1000 V
- Forward Current - 8.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

MECHANICAL DATA

- Case: ULBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.461g / 0.0163oz

PINNING

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



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 | ULBF808 | ULBF810 | Units |
|---|---|----------------|---------|------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 800 | 1000 | V |
| Average Rectified Output Current | I_O | 8.0 | | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) | I_{FSM} | 220 | | A |
| Peak Forward Surge Current 1.0ms Single Half Sine-wave Superimposed on Rated Load | I_{FSM} | 350 | | A |
| I^2t Rating for Fusing $1ms \leq t < 8.3ms$ | I^2t | 200 | | A ² S |
| Maximum Forward Voltage at 1.0 A | V_F | 0.83(typ) | | V |
| Maximum Forward Voltage at 4.0 A | V_F | 1.0 | | V |
| Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$ | I_R | 5 100 | | μA |
| Typical Junction Capacitance (Note1) | C_j | 100 | | pF |
| Typical Thermal Resistance (Note2) | $R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$ | 60 10 12 | | $^\circ C/W$ |
| Operating and Storage Temperature Range | T_j, T_{stg} | -55 ~ +150 | | $^\circ C$ |

Note: 1. Measured at 1MHz 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.



Fig.1 Average Rectified Output Current Derating Curve

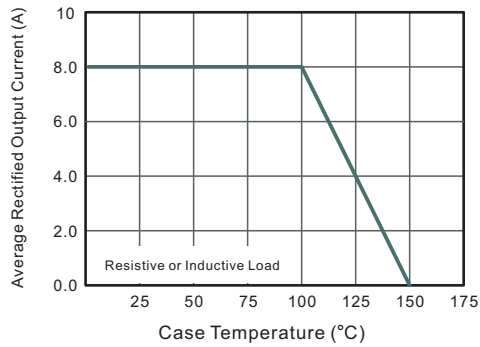


Fig.2 Typical Reverse Characteristics

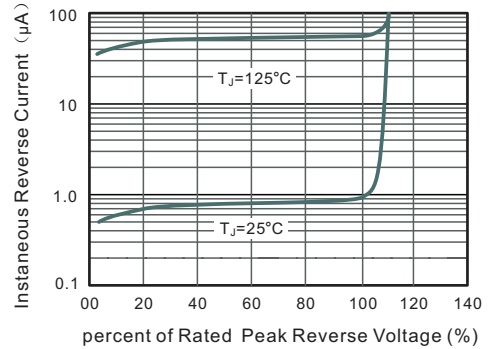


Fig.3 Typical Instantaneous Forward Characteristics

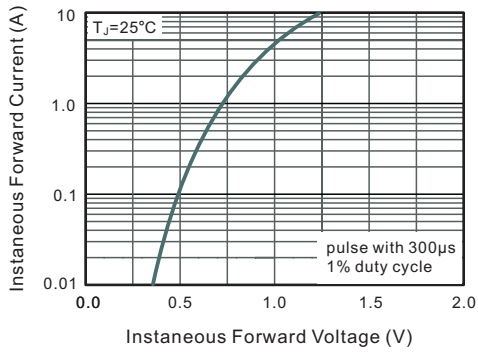


Fig.4 Typical Junction Capacitance

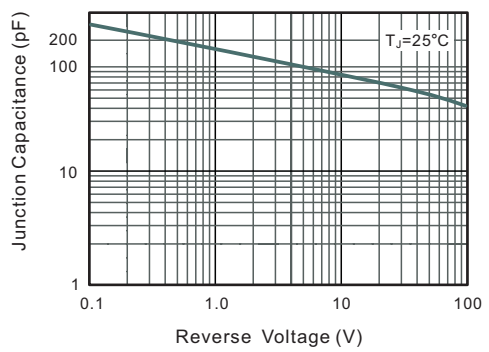


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

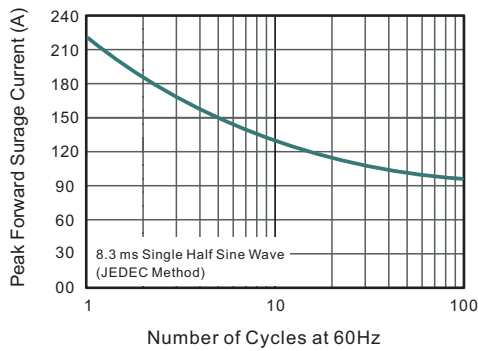
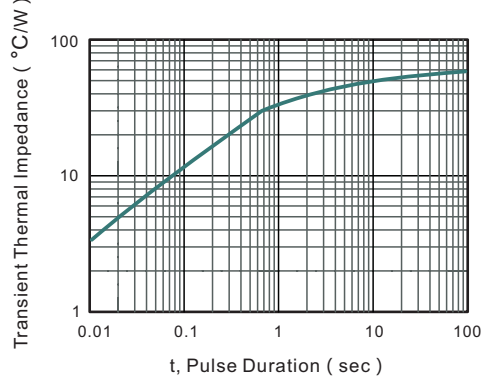


Fig.6- Typical Transient Thermal Impedance

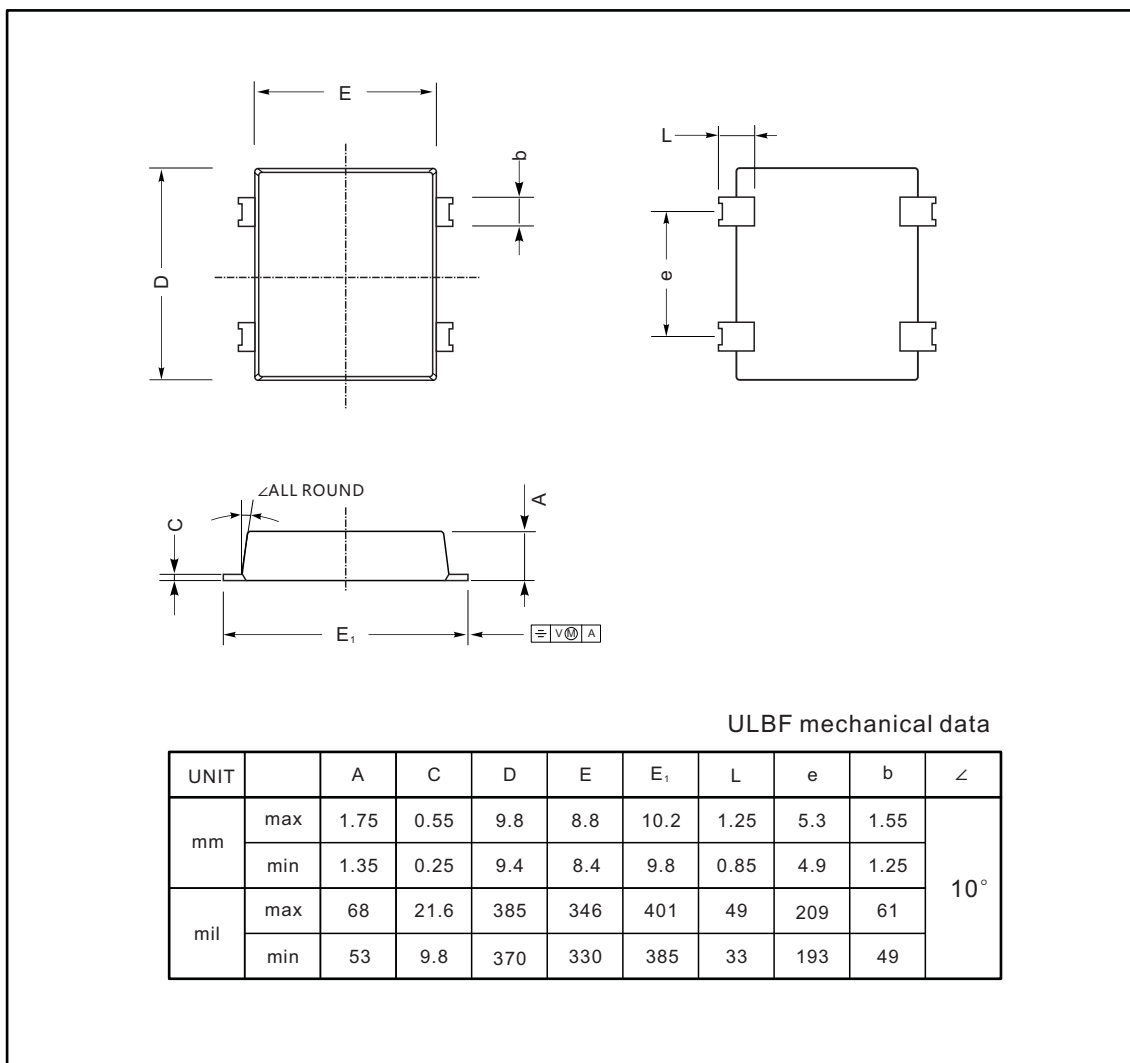




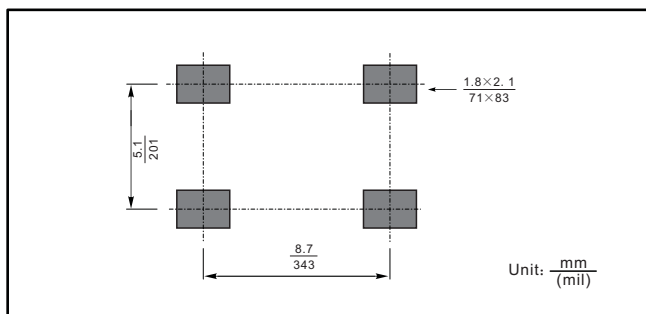
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ULBF



The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| ULBF808 | ULBF808 |
| ULBF810 | ULBF810 |

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