



ULBF808 THRU ULBF810

8A SURFACE MOUNT BRIDGE RECTIFIER

FEATURES:

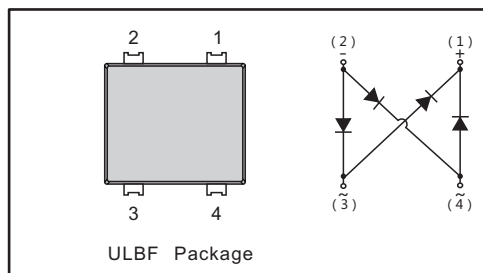
- Reverse Voltage - 800 & 1000 V
- Forward Current - 8.0 A
- High Surge Current Capability
- Designed for Surface Mount Application

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.



Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig.1 Average Rectified Output Current Derating Curve

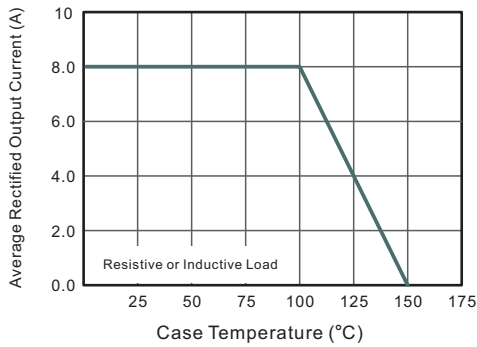


Fig.2 Typical Reverse Characteristics

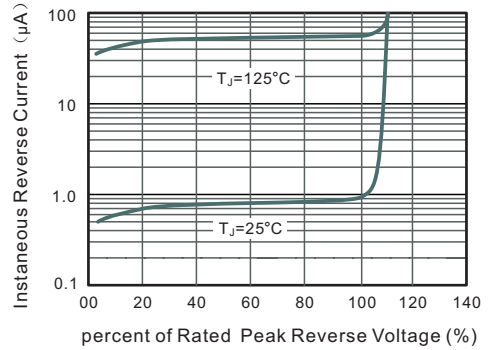


Fig.3 Typical Instantaneous Forward Characteristics

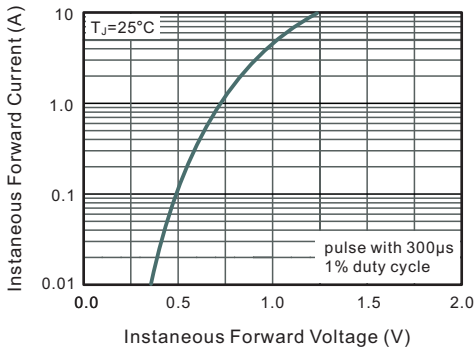


Fig.4 Typical Junction Capacitance

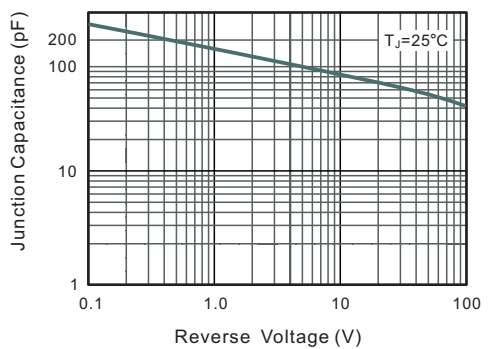


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

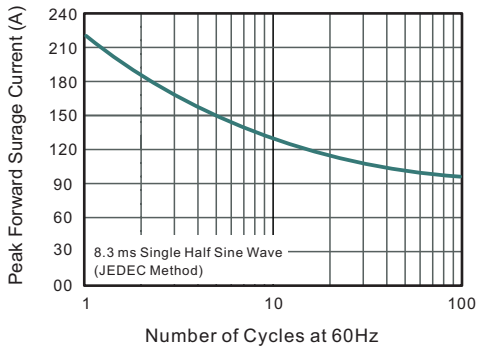
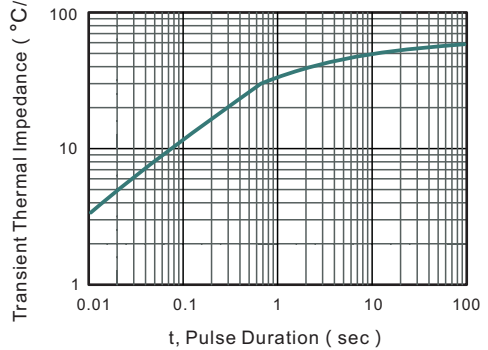


Fig.6- Typical Transient Thermal Impedance





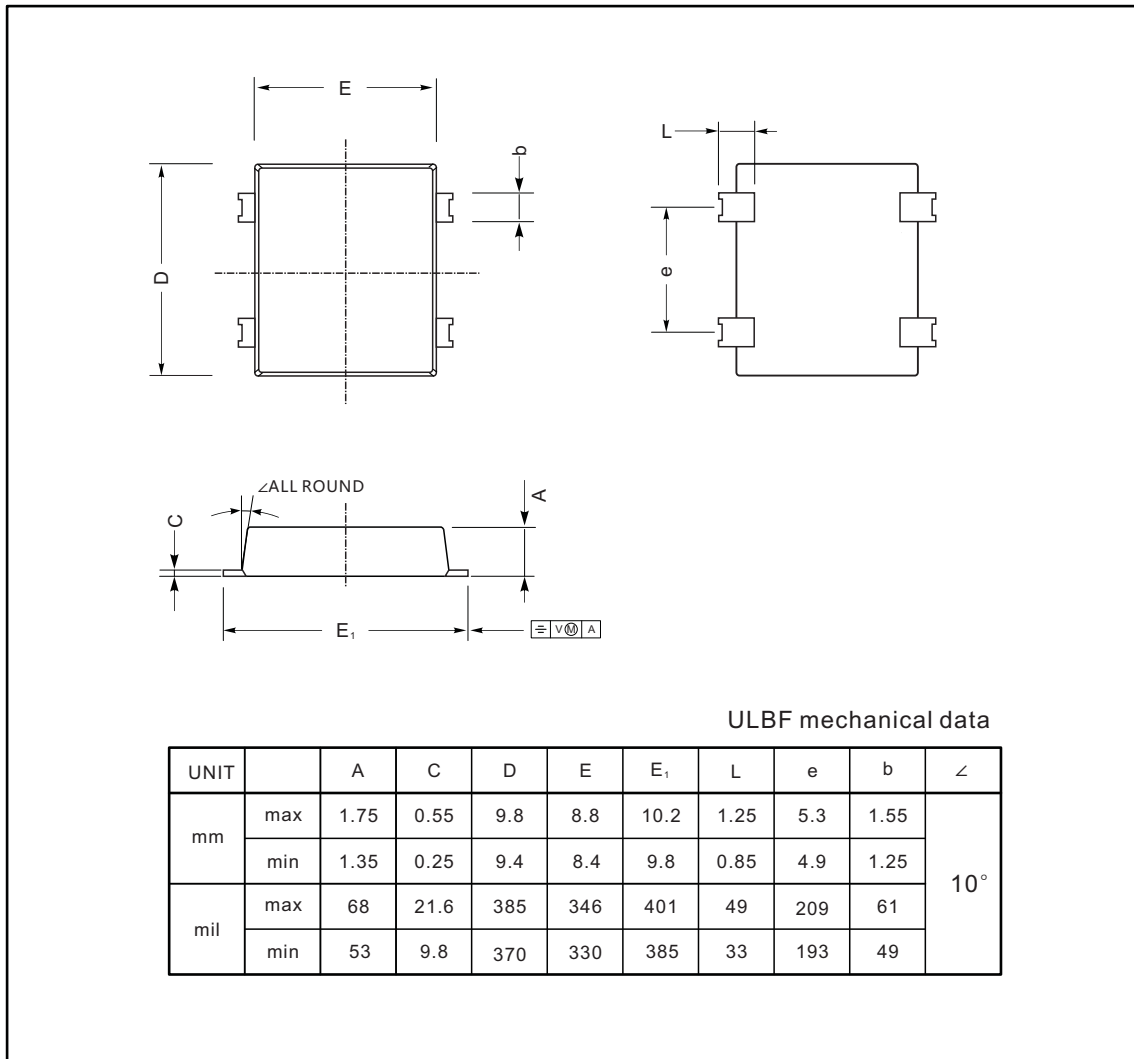
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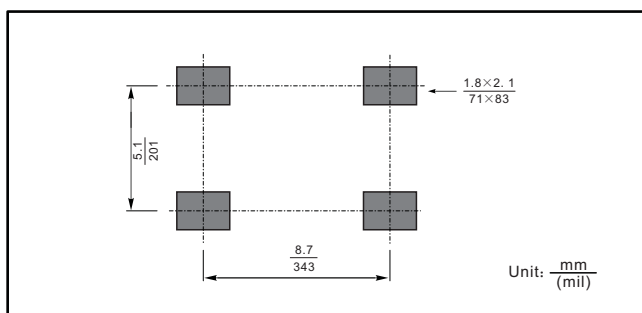
PACKAGE OUTLINE

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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