

CURRENT 5 Ampere
VOLTAGE RANG 800~1000 Volts

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER RECTIFIERS

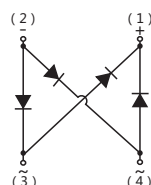
ULBF508-ULBF510

ULBF508-ULBF510

Features:

Glass Passivated Chip Junction
 Reverse Voltage - 100 to 1000 V
 Forward Current - 5.0 A
 High Surge Current Capability
 Designed for Surface Mount Application

ULBF-4



PINNING

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

Absolute Maximum Ratings (Ta=25℃ unless otherwise noted)

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Parameter	Symbols	ULBF508	ULBF510	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	5.0		A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	200		A
I^2t Rating for Fusing	I^2t	166		A ² S
Maximum Forward Voltage at 1.0 A	V_F	0.83 (typ.)		V
Maximum Forward Voltage at 6.0 A	V_F	1.0		V
Maximum DC Reverse Current @T _A =25 °C at Rated DC Blocking Voltage @T _A =125 °C	I_R	5 100		μA
Typical Junction Capacitance (Note1)	C_j	60		pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$ $R_{\theta JC}$ $R_{\theta JL}$	60 10 12		°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150		°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.

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Typical Characteristics

Fig.1 Average Rectified Output Current Derating Curve

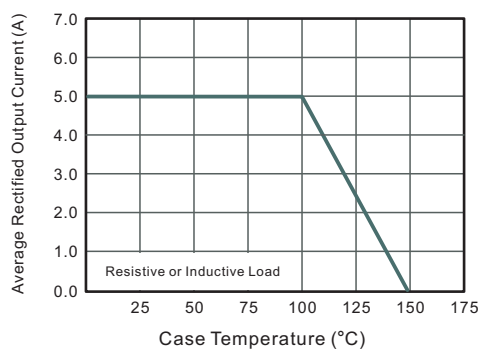


Fig.2 Typical Reverse Characteristics

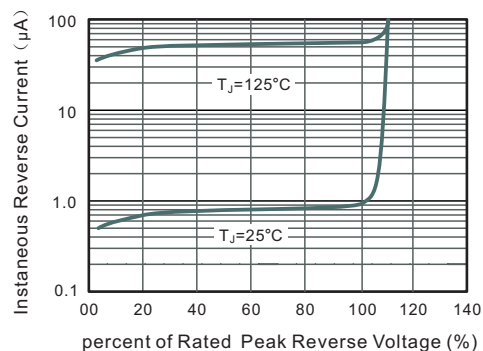


Fig.3 Typical Instantaneous Forward Characteristics

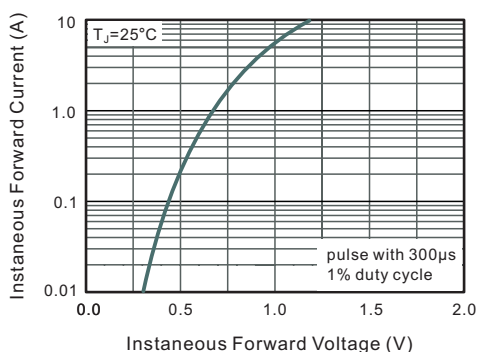


Fig.4 Typical Junction Capacitance

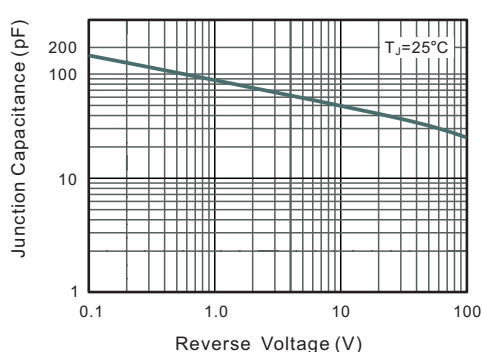


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

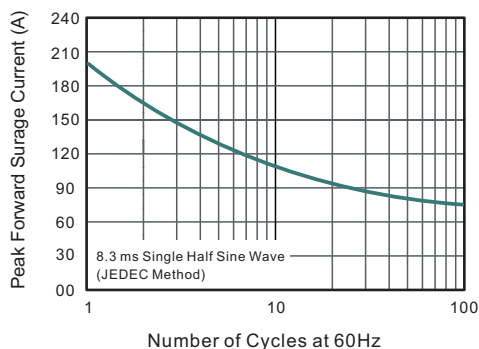
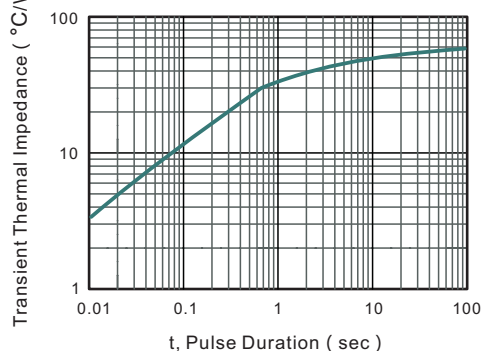


Fig.6- Typical Transient Thermal Impedance

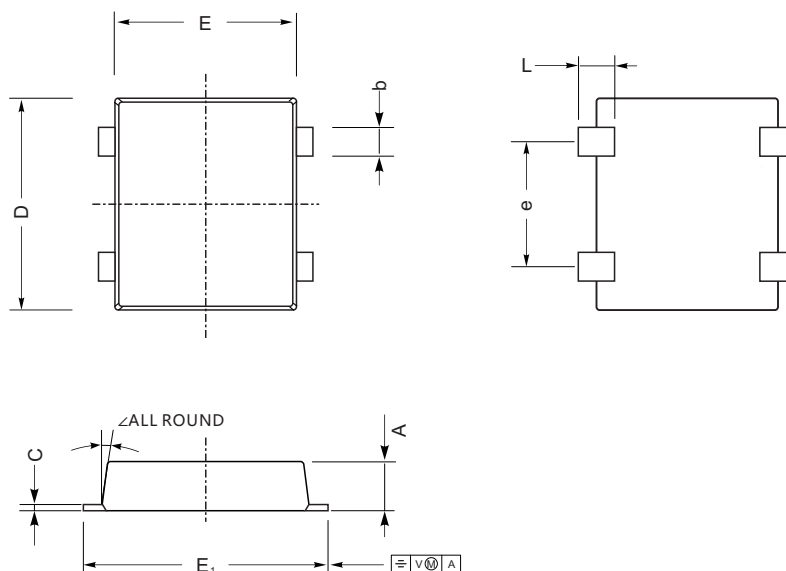


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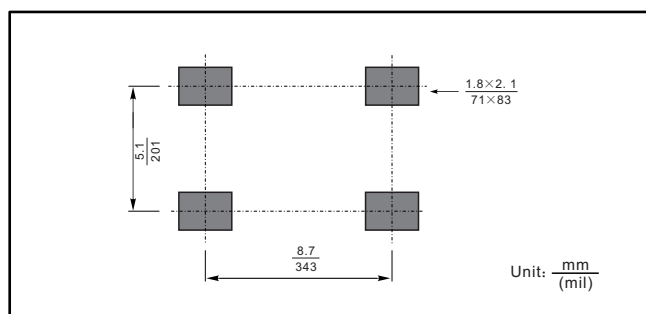
ULBF



ULBF mechanical data

UNIT		A	C	D	E	E ₁	L	e	b	∠
mm	max	1.75	0.55	9.8	8.8	10.2	1.25	5.3	1.55	10°
	min	1.35	0.25	9.4	8.4	9.8	0.85	4.9	1.25	
mil	max	68	21.6	385	346	401	49	209	61	
	min	53	9.8	370	330	385	33	193	49	

The recommended mounting pad size



Marking

Type number	Marking code
ULBF608	ULBF608
ULBF610	ULBF610