

**CURRENT** 8 Ampere  
**VOLTAGE RANG** 800~1000 Volts

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER RECTIFIERS

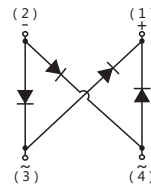
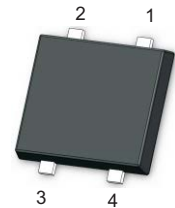
**ULBF808-ULBF810**

## ULBF808-ULBF810

### Features:

Glass Passivated Chip Junction  
 Reverse Voltage - 800 to 1000 V  
 Forward Current - 8.0 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°C 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	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≤t<8.3ms	$I^2t$	200		A <sup>2</sup> 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 at Rated DC Blocking Voltage	$I_R$	5	100	μA
		@T <sub>A</sub> =25 °C	@T <sub>A</sub> =125 °C	
Typical Junction Capacitance ( Note1 )	$C_j$	100		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 <sub>j</sub> , T <sub>stg</sub>	-55 ~ +150		°C

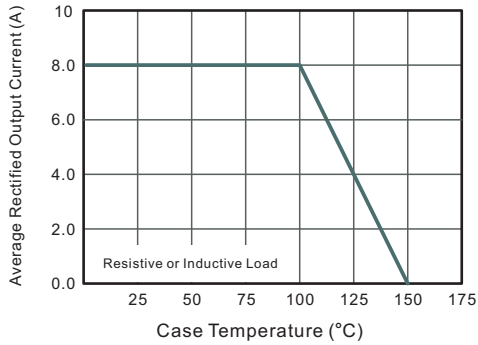
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

2. Mounted on glass epoxy PC board with 4×1.5"×1.5" ( 3.81×3.81 cm ) copper pad.

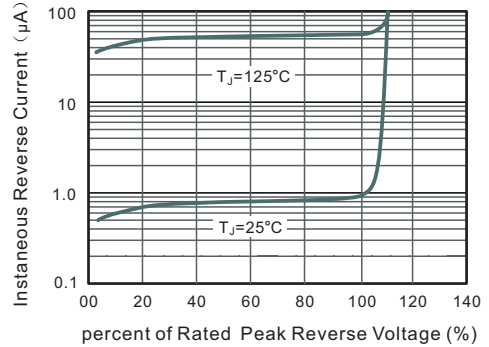
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**ULBF808-ULBF810**

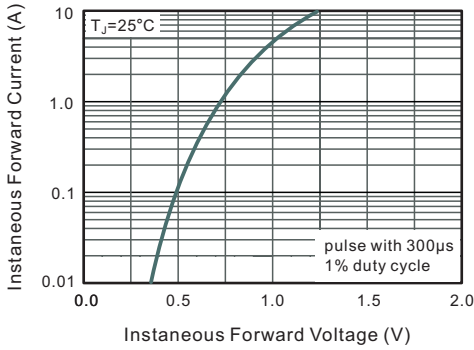
**Fig.1 Average Rectified Output Current Derating Curve**



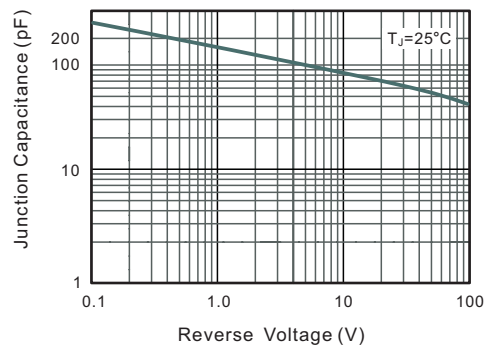
**Fig.2 Typical Reverse Characteristics**



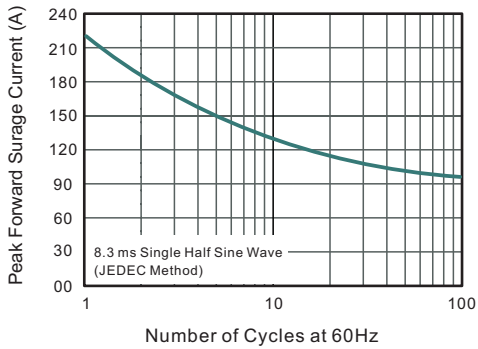
**Fig.3 Typical Instantaneous Forward Characteristics**



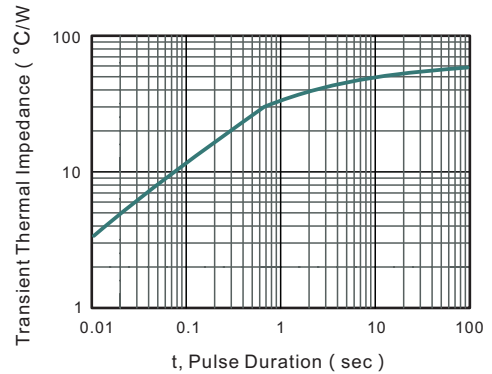
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



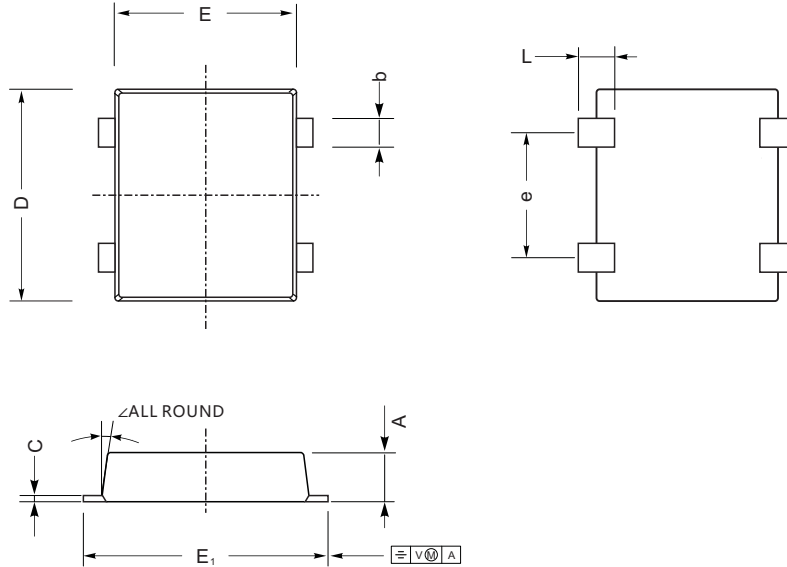
**Fig.6- Typical Transient Thermal Impedance**



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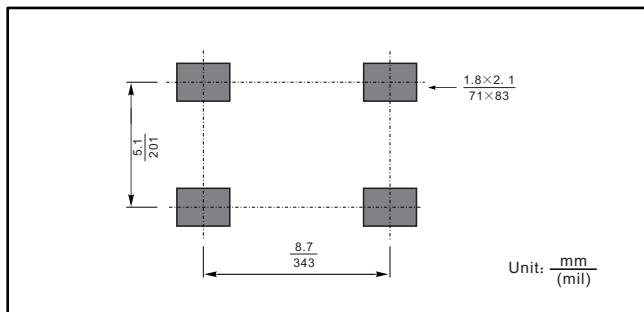
**ULBF**



ULBF mechanical data

UNIT		A	C	D	E	E <sub>1</sub>	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
ULBF808	ULBF808
ULBF810	ULBF810