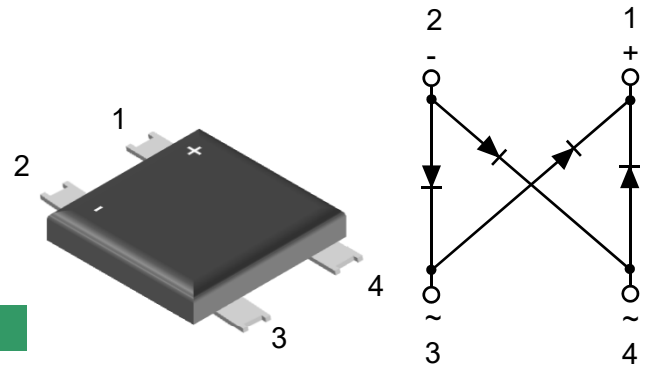


Feature

- Reverse Voltage - 800 to 1000 V
- Forward Current - 6.0 A
- High Surge Current Capability
- Designed for Surface Mount Application


Top View
Circuit Diagram
Mechanical Characteristics

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

Absolute maximum rating@25°C

Parameter	Symbol	PULBF608	PULBF610	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 at $T_c = 115^\circ\text{C}$	I_O	6.0		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	V_F	1.0A	0.83 (typ.)	V
		6.0A	1.0	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	5.0 100	μA
Typical Junction Capacitance ¹⁾	C_J	100		pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	60		$^\circ\text{C/W}$
	$R_{\theta JC}$	10		
	$R_{\theta JL}$	12		
Operating and Storage Temperature Range	T_J, T_{STG}	-55~+150		$^\circ\text{C}$

Notes:

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..

Typical Characteristics

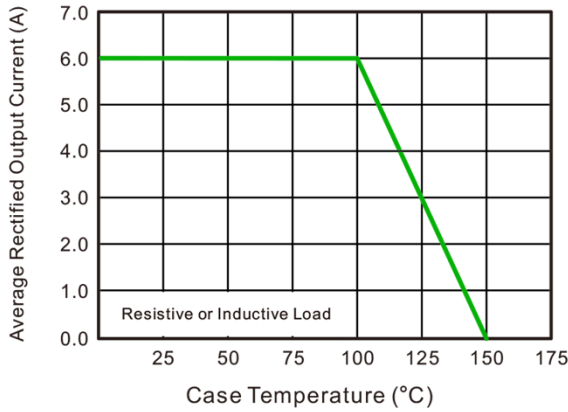


Fig.1 Average Rectified Output Current Derating Curve

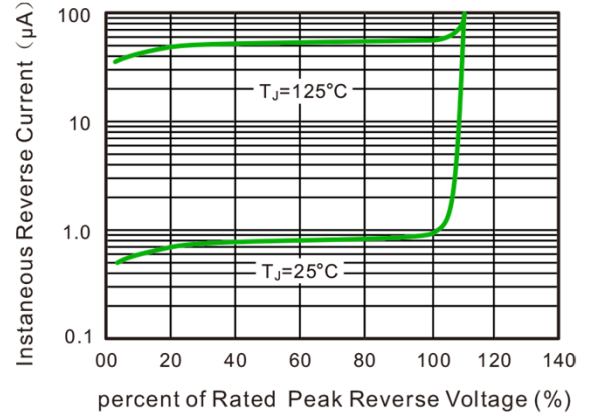


Fig.2 Typical Reverse Characteristics

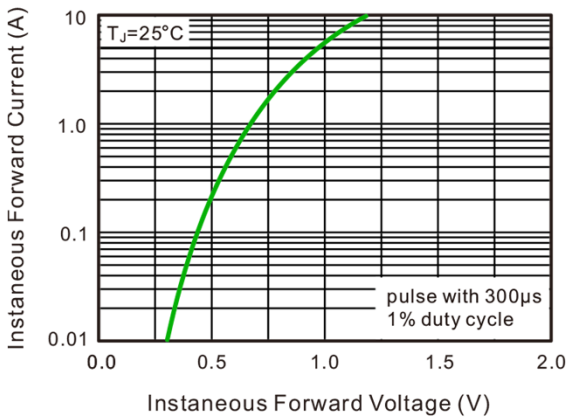


Fig.3 Typical Instantaneous Forward Characteristics

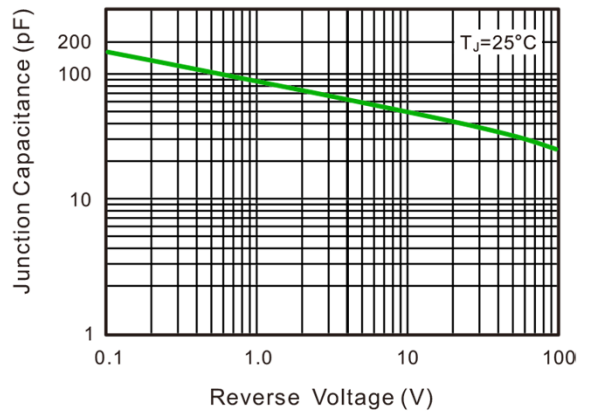


Fig.4 Typical Junction Capacitance

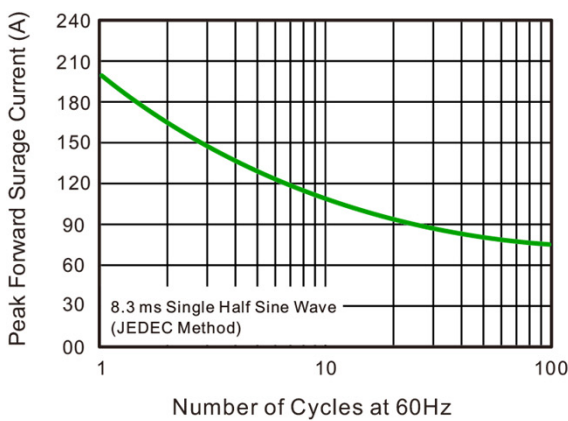


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

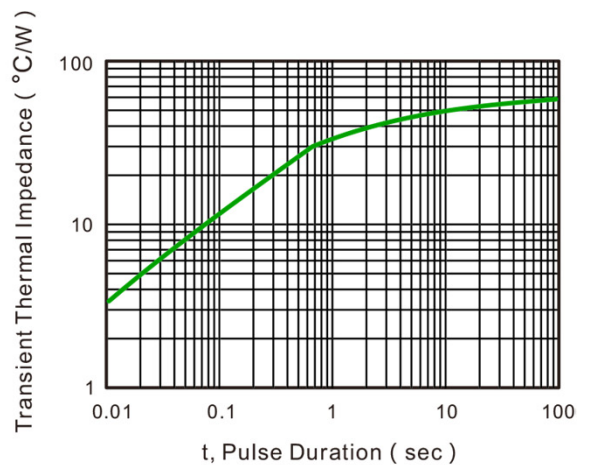
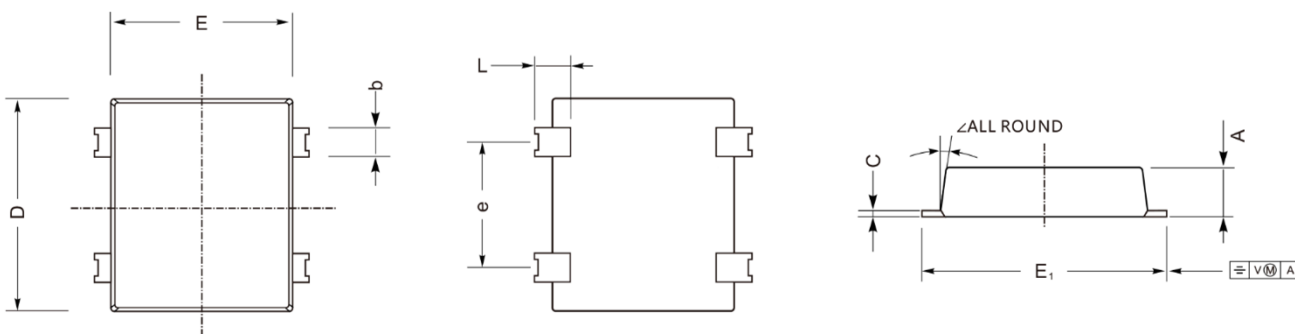


Fig.6- Typical Transient Thermal Impedance

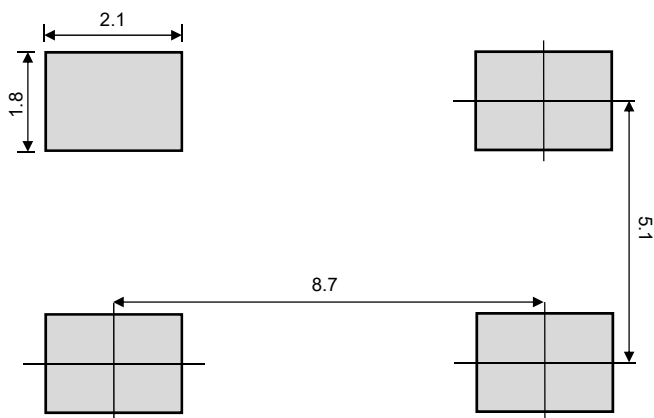
BRIDGE RECTIFIER

PULBF608 THRU PULBF610

Product dimension (ULBF)




Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	1.35	1.75	0.053	0.069
C	0.25	0.55	0.010	0.022
D	9.40	9.80	0.370	0.386
E	8.40	8.80	0.331	0.346
E ₁	9.80	10.20	0.386	0.402
L	0.85	1.25	0.033	0.049
e	4.90	5.30	0.193	0.209
b	1.25	1.55	0.049	0.061
∠	10°		10°	



Unit:mm

Suggested PCB Layout


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