

PULBF808 THRU PULBF810

8A SURFACE MOUNT BRIDGE RECTIFIER

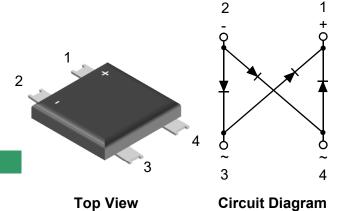
Feature

> Reverse Voltage - 800 to 1000 V

> Forward Current - 8.0 A

> High Surge Current Capability

Designed for Surface Mount Application



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	PULBF808	PULBF810	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	i°C I _o	8.0		А
Peak Forward Surge Current 8.3 ms Single H Sine Wave Superimposed on Rated Load (JEDEC Method)	Half I _{FSM}	220		А
I ² t Rating for Fusing	I ² t	200		A ² S
Maximum Forward Voltage at 4.0A	— V _□	0.83 (typ.) 1.0		_ v
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$ I_R 5.0			μА	
Typical Junction Capacitance ¹⁾	CJ	100		pF
Typical Thermal Resistance ²⁾	$\begin{array}{c} R_{\theta JA} \\ R_{\theta JC} \\ R_{\theta JL} \end{array}$	60 10 12		°C/W
Operating and Storage Temperature Range	$T_{J,}T_{STG}$	-55~+150		°

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..

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Typical Characteristics

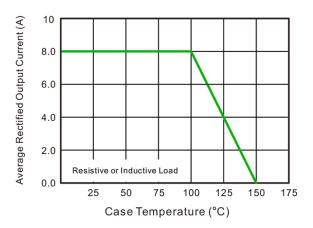


Fig.1 Average Rectified Output Current Derating Curve

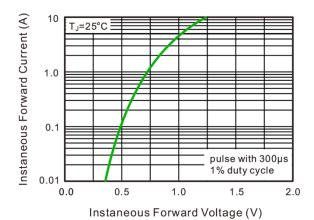


Fig.3 Typical Instaneous Forward Characteristics

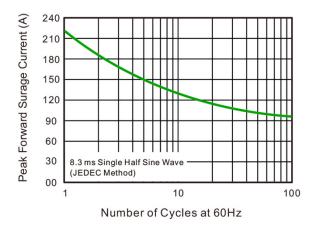


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

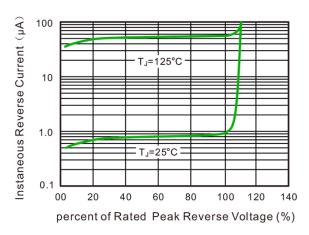


Fig.2 Typical Reverse Characteristics

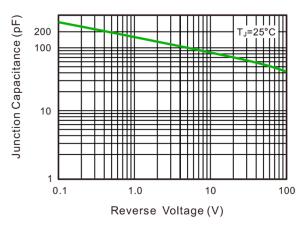


Fig.4 Typical Junction Capacitance

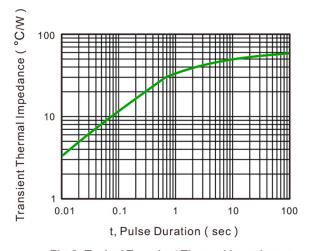
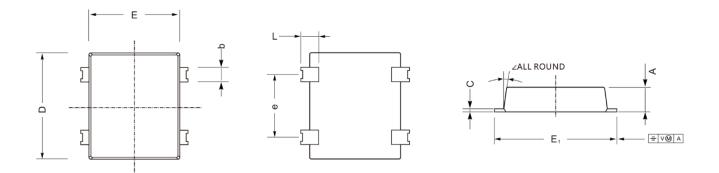
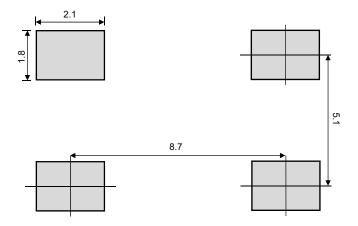


Fig.6- Typical Transient Thermal Impedance

Product dimension (ULBF)



Dim	Millim	neters	Inches		
	Min	Max	Min	Max	
Α	1.35	1.75	0.053	0.069	
С	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	
е	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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