

6A SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER Reverse Voltage - 100 to 1000 V Forward Current - 6.0A

FEATURES

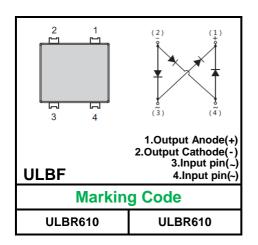
- ♦High current capability
- ♦Low forward voltage drop
- **♦**Glass Passivated Chip Junction
- **♦**Designed for Surface Mount Application
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case: ULBF

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦ Approx. Weight: 0.461g / 0.0163oz



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	ULBR610	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1000	V
Maximum RMS voltage	V _{RMS}	700	V
Maximum DC Blocking Voltage	V _{DC}	1000	V
Average Rectified Output Current at Tշ=100℃	lo	6.0	Α
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	Īfsm	200	Α
I2t Rating for Fusing	l ² t	166	A ² S
Typical Thermal Resistance (Note1)	Reja Rejc Rejl	60 6 14	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

⁽¹⁾ Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

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Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified.

Parameter	Symbols	Test Conditions	Тур	Max	Units
Instantaneous forward voltage	V _F	I =6A TJ=25℃	-	1.0	V
Reverse current at DC blocking voltage	I R	TJ=25℃ TJ=125℃	-	1 200	uA
Maximum Reverse Recovery Time	Trr	Measured with I==0.5A, IR=1A, Irr = 0.25 A.	-	500	nS
Typical Junction Capacitance		f=1MHz,VR=4V DC TJ= 25℃	80	-	pF



Fig.1 Average Rectified Output Current Derating Curve

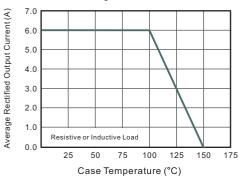


Fig.2 Typical Reverse Characteristics

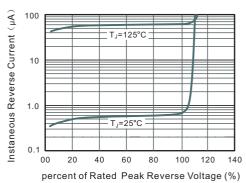


Fig.3 Typical Instaneous Forward Characteristics

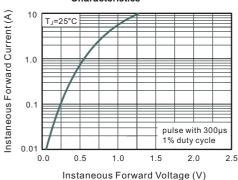


Fig.4 Typical Junction Capacitance

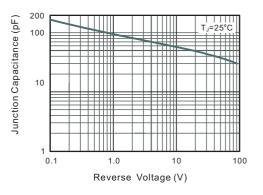


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

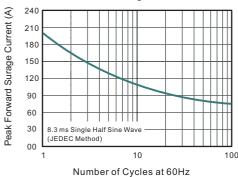
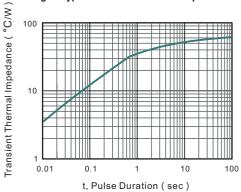
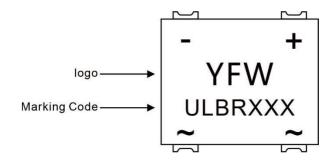


Fig.6- Typical Transient Thermal Impedance





Marking Diagram

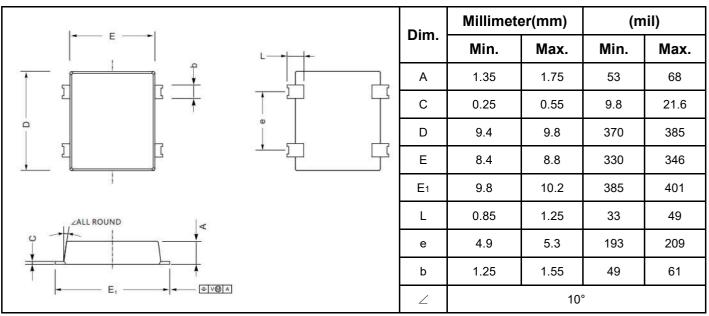


Ordering information

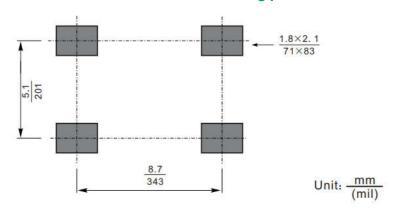
Package	Packing Description	Packing Quantity	
ULBF	Tape/Reel,13"reel	3000PCS/Reel 30000PCS/Carton	

Package Dimensions

ULBF



The recommended mounting pad size



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