

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**
VOLTAGE 800 to 1000 Volts CURRENT 6.0 Ampere

FEATURES

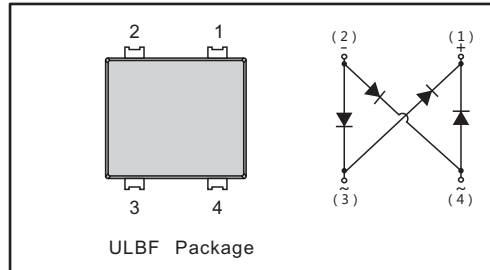
- * Silver-plated copper leads
- * Surge overload rating: 200 amperes peak
- * Low leakage
- * Mounting position: Any
- * Low forward voltage

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O
- * UL listed the recognized component directory, file #94233

PINNING

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
resistive or inductive load.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	ULBF608	ULBF610	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	800	1000	Volts
Maximum Average Forward Rectified Current at T _C = 75°C	I _O	6.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	200		Amps
Current Squared Time	I ² T	166		A ² /Sec
Typical Thermal Resistance (Note 1)	R _{θJC}	10		°C/W
	R _{θJA}	60		
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150		°C

ELECTRICAL CHARACTERISTICS (@ TA=25 °C unless otherwise noted)

CHARACTERISTICS	SYMBOL	ULBF608	ULBF610	UNITS
Maximum Instantaneous Forward Voltage at 6.0A DC	V _F	1.0		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C	5.0		uAmps
	@ T _A = 125°C	100		

- NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. "ROHS compliant"
3. Measured at 1MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTICS CURVES (ULBF608,ULBF610)

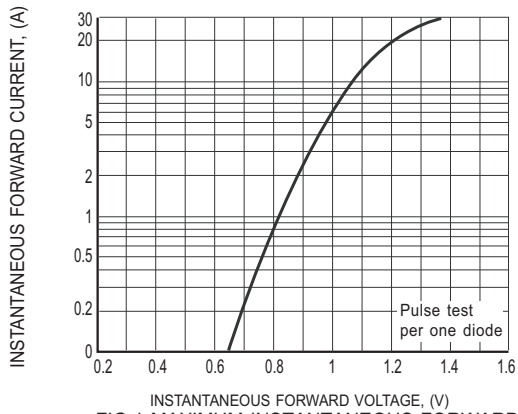


FIG.1 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

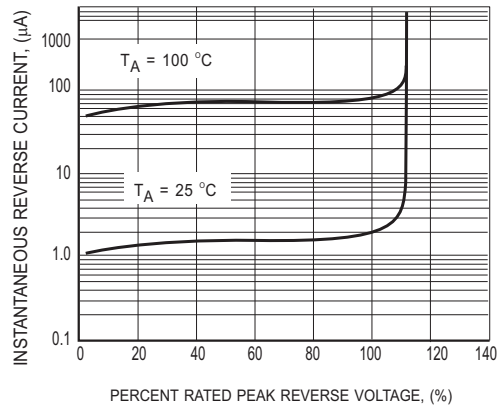


FIG.3 TYPICAL REVERSE CHARACTERISTICS

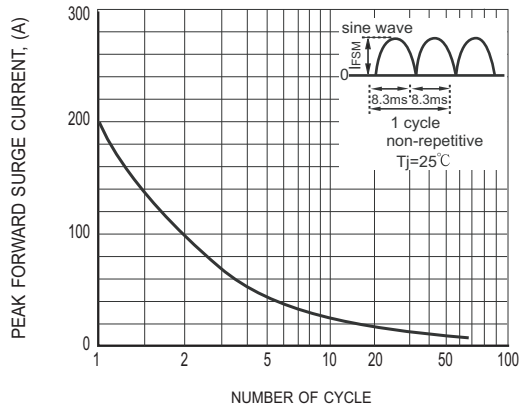


FIG.3 SURGE FORWARD CURRENT CAPABILITY

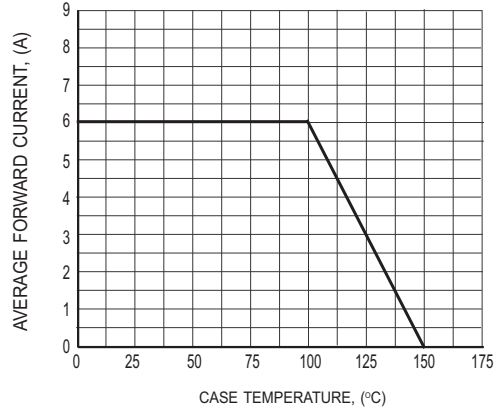
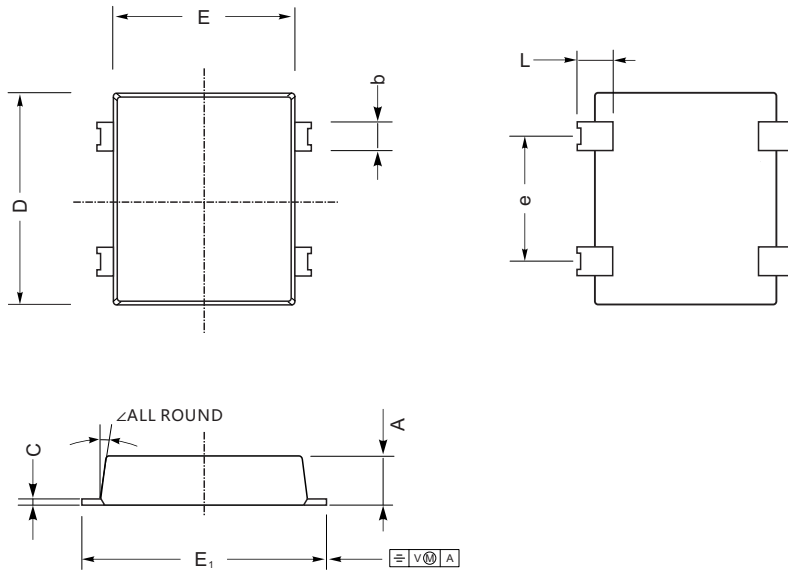


FIG.4 TYPICAL FORWARD CURRENT DERATING CURVE

PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

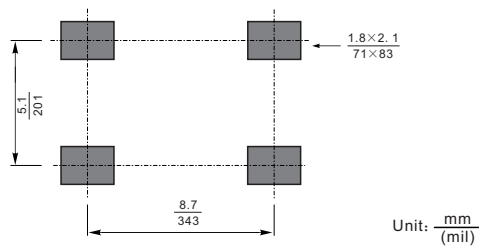
ULBF



ULBF mechanical data

UNIT		A	C	D	E	E ₁	L	e	b	\angle
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



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
ULBF	-T	3,000	6,000	332*332*50	345*345*280	30,000	---

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