

**SINGLE-PHASE GLASS PASSIVATED
SILICON BRIDGE RECTIFIER**
VOLTAGE 800 to 1000 Volts CURRENT 8.0 Ampere

FEATURES

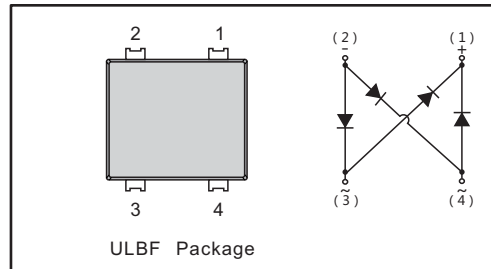
- * Silver-plated copper leads
- * Low leakage
- * Mounting position: Any
- * Low forward voltage

MECHANICAL DATA

- * Epoxy: Device has UL flammability classification 94V-O

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	ULBF808	ULBF810	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	800	1000	Volts
Maximum RMS Voltage	VRMS	560	700	Volts
Maximum DC Blocking Voltage	VDC	800	1000	Volts
Maximum Average Forward Rectified Current at TC = 70°C	Io	8.0		Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	220		Amps
Current Squared Time	I ² T	200.86		A ² /Sec
Typical Thermal Resistance (Note 1)	RθJC	10		°C/W
	RθJA	60		
Typical Junction Capacitance(Note 3)	CJ	75		pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150		°C

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

CHARACTERISTICS	SYMBOL	ULBF808	ULBF810	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC	VF	1.1		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	5.0		uAmps
	@TA = 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.

2023-12/85
REV:A

RATING AND CHARACTERISTICS CURVES (ULBF808,ULBF810)

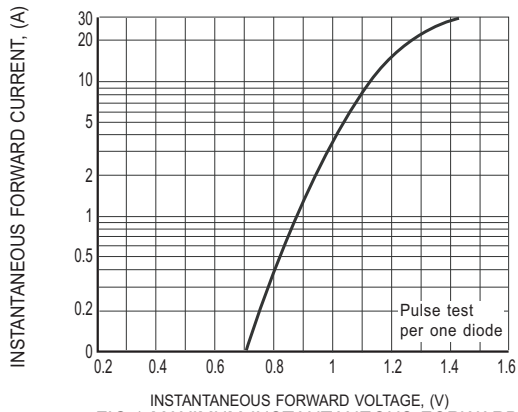


FIG.1 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

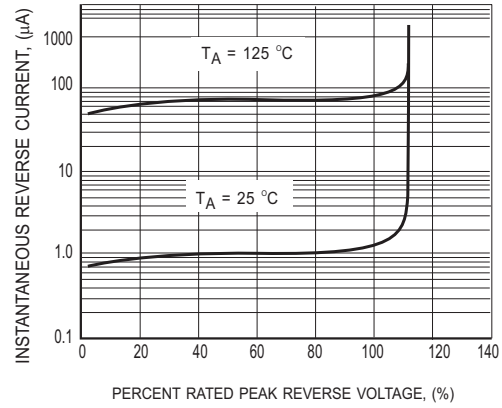


FIG.3 TYPICAL REVERSE CHARACTERISTICS

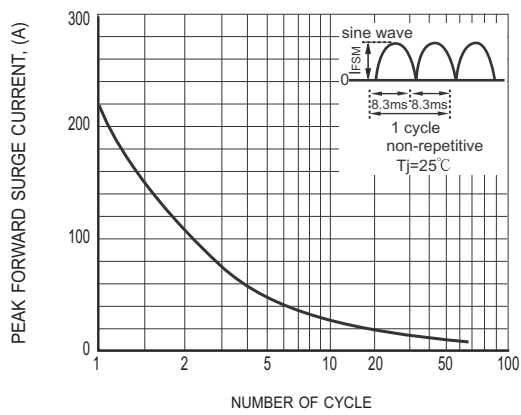


FIG.3 SURGE FORWARD CURRENT CAPABILITY

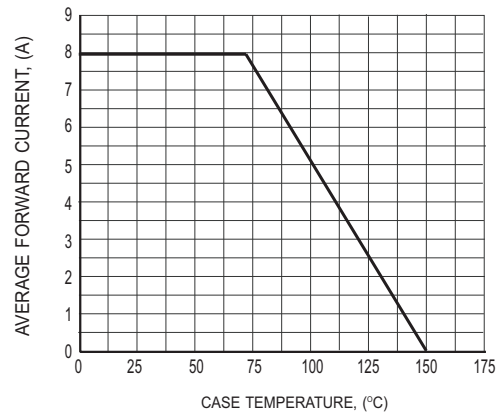
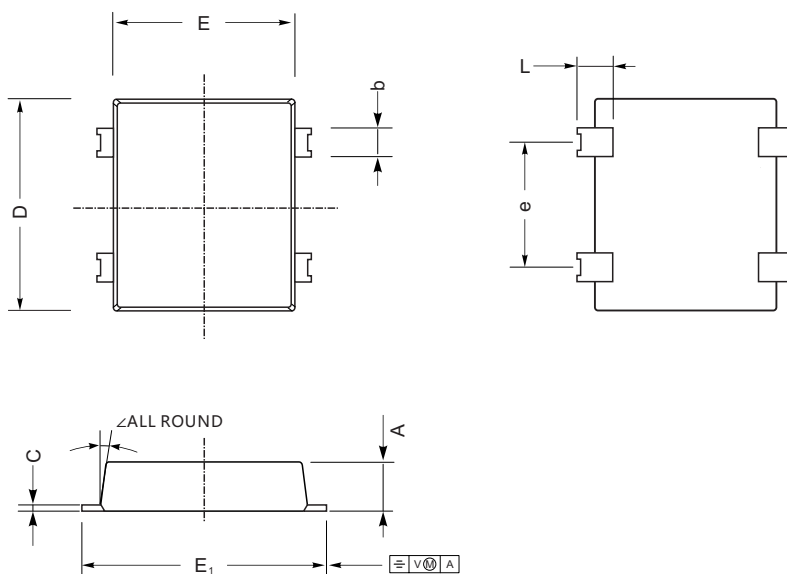


FIG.4 TYPICAL FORWARD CURRENT DERATING CURVE

PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

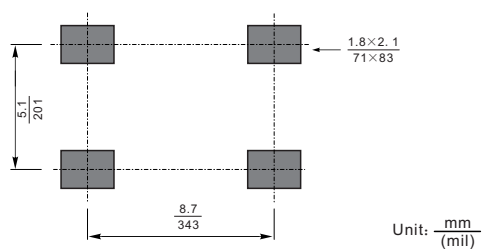
ULBF



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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