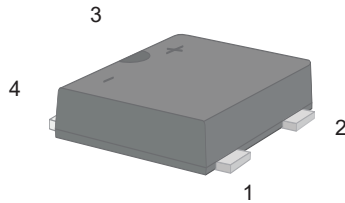


## Ultrasoft Recovery Bridge



### PINNING

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

### Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 1A
- High Surge Current Capability
- Designed For Surface Mount Application

### Benefits

- Case: UMB
- Terminals: Solderable Per MIL-STD-750
- Reduced power loss and switching transistor

### 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	WRUM10M	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC Blocking Voltage	VDC	1000	V
Average Rectified Output Current	I <sub>o</sub>	1.0	A
Reverse Recovery Time. IF=0.5A,IR=1A,IRR=0.25A	T <sub>rr</sub>	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	25	A
I <sup>2</sup> t rating for fusing ( 1ms< t < 10ms)	I <sup>2</sup> t	3.0	A <sup>2</sup> S
Maximum Forward Voltage at 1.0 A	V <sub>F</sub>	1.28	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I <sub>R</sub>	5 100	μA
Typical Junction Capacitance (Note1)	C <sub>j</sub>	13	pF
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 ~ +175	°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

2. Thermal resistance from Junction to case, lead and ambient in accordance with JESD-51. Unit mounted on 15mm\*12mm\*1.6mm AL pad attach 195mm\*195mm\*10mm steel plate

## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

Fig.1 Typical Reverse Characteristics

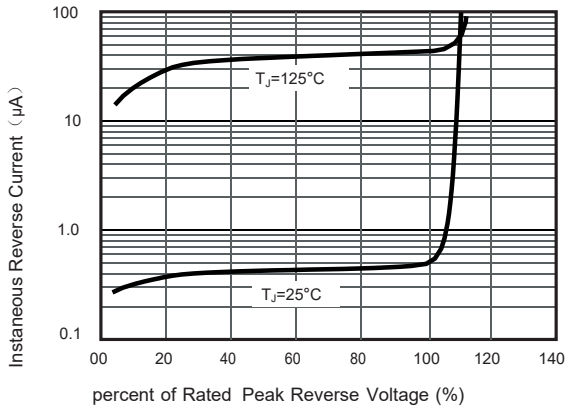


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

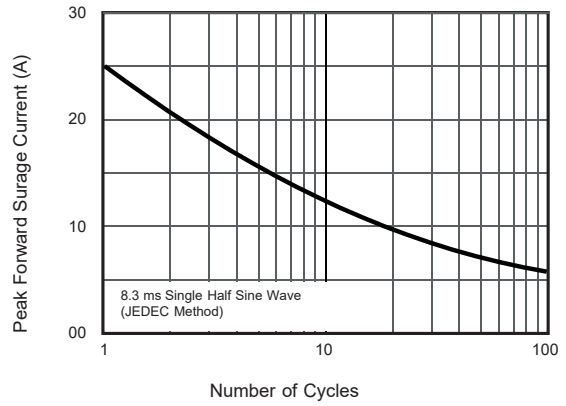


Fig.3 Typical Instantaneous Forward Characteristics

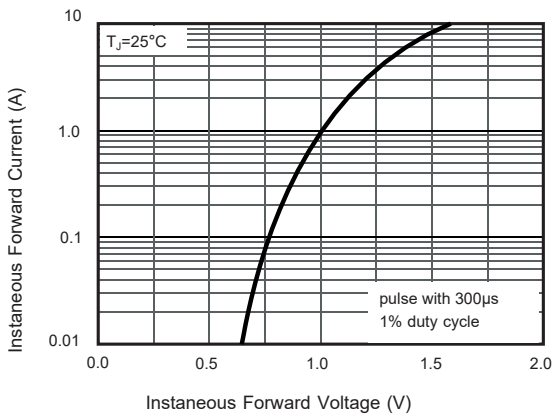
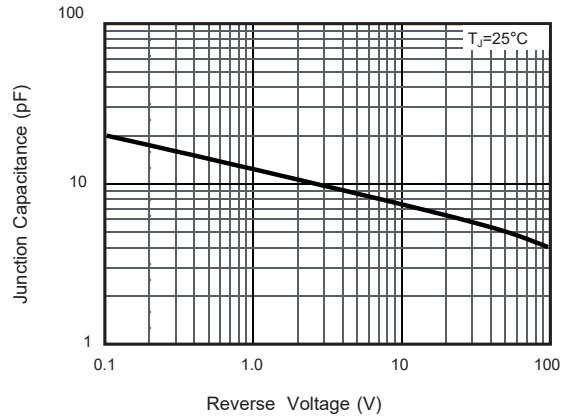
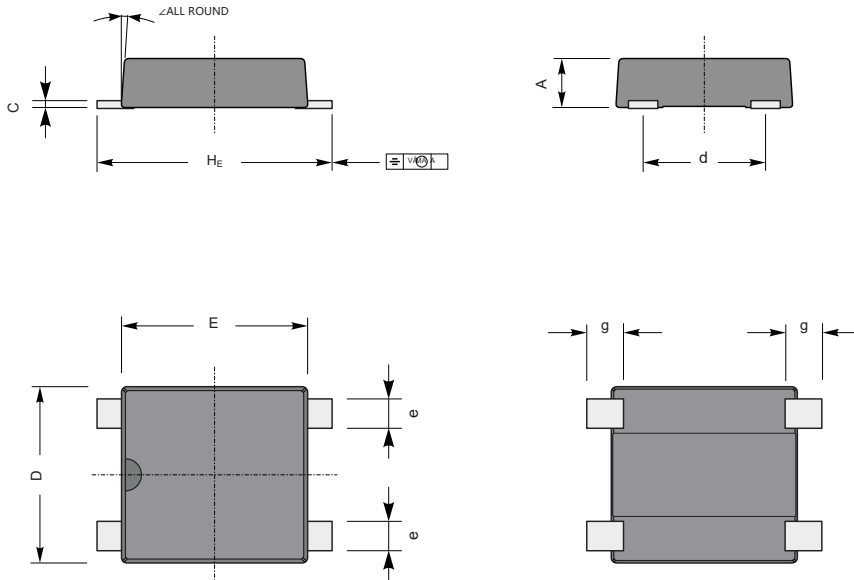


Fig.4 Typical Junction Capacitance



## PACKAGE OUTLINE DIMENSIONS

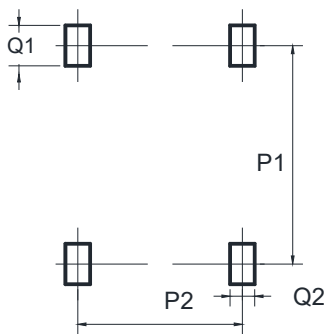
### WT B



### WT Ó mechanical data

UNIT		A	C	D	E	H <sub>E</sub>	g	d	e	∠
mm	max	1.2	0.20	3.8	4.0	5.1	0.82	2.7	0.70	7°
	min	1.0	0.12	3.4	3.6	4.6	0.51	2.3	0.51	
mil	max	47	7.9	150	157	201	32	106	28	
	min	39	4.7	134	142	181	20	91	20	

### UMB Suggested Pad Layout



Dimensions is millimeters

UNIT		P1	P2	Q1	Q2
mm	min	5.0	3.5	1.0	0.9
mil	min	197	137.8	39.3	35.4