

## Ultrasoft Recovery Bridge



### PINNING

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

### 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 %.

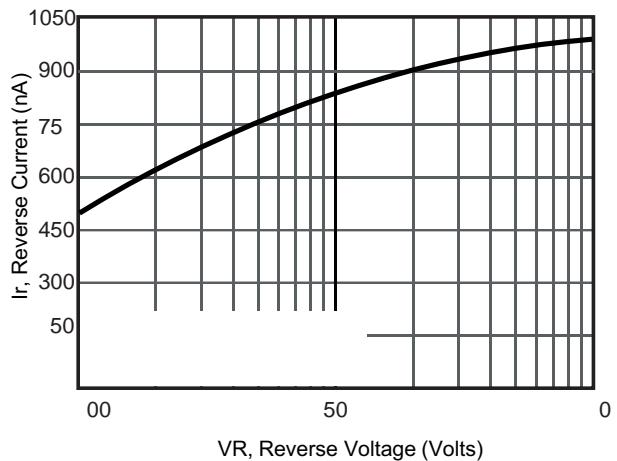
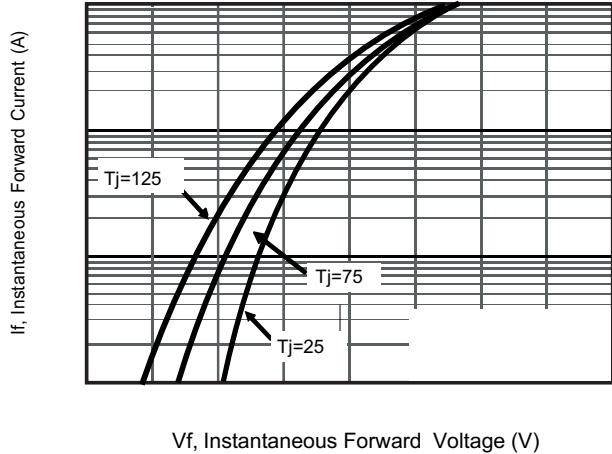
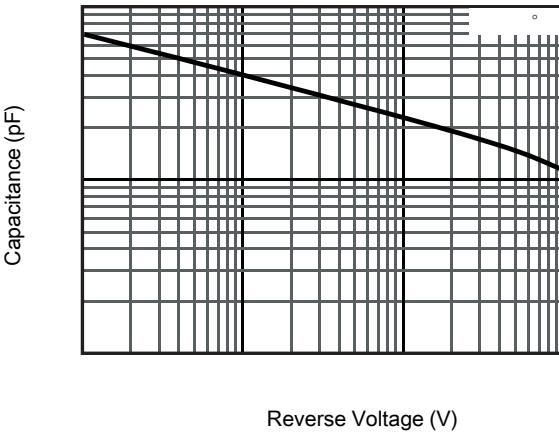
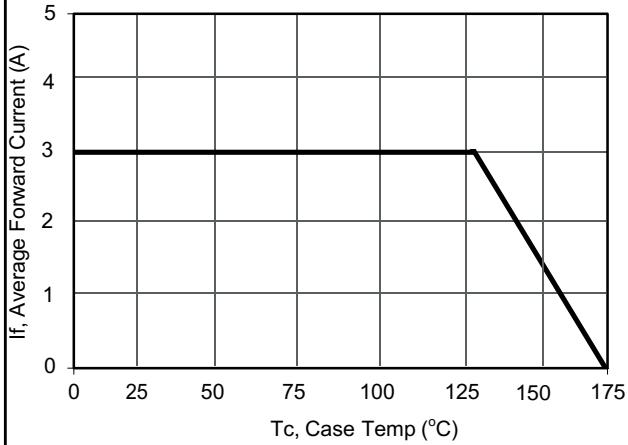
Parameter	Symbols	XBS30J	XBS30K	XBS30M	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	600	800	1000	V
Average Rectified Output Current	$I_O$	3.0			A
Reverse Recovery Time.IF=0.5A,IR=1A,IRR=0.25A	Trr	10			us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	10			A
$I^2 t$ rating for fusing ( 1ms < t < 10ms)	$I^2 t$				$A^2 s$
Maximum Forward Voltage at 1.5 A	$V_F$	1.0			V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	$I_R$	5 100			$\mu A$
Typical Junction Capacitance ( Note 1 )	$C_J$	40			pF
Operating and Storage Temperature Range	$T_J, T_{STG}$	-55 ~ +175			°C
Typical thermal resistance (Note 2)	$R_{thJC}$ $R_{thJA}$	6 12			°C/W

Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.

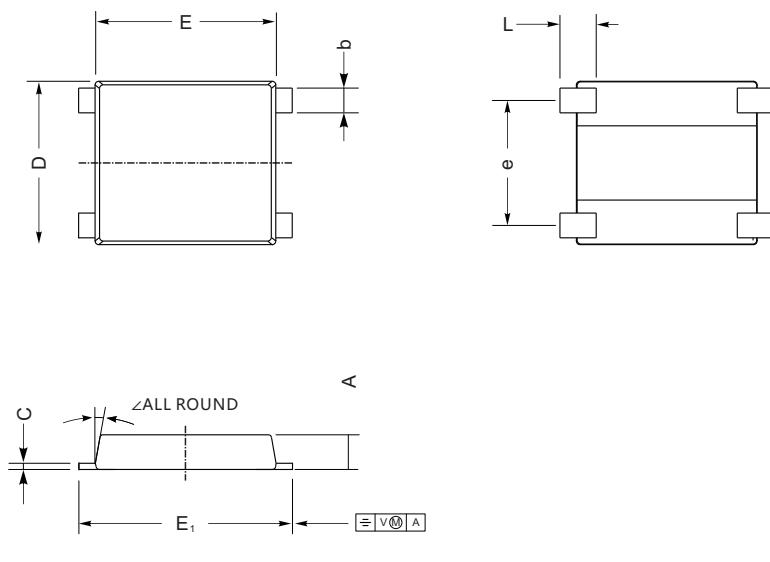
2. Thermal resistance from Junction to case,lead and ambient in accordance with JESD-51.

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)**



## PACKAGE OUTLINE DIMENSIONS



UNIT				
mm	max	1.5	0.29	8.9
	min	1.3	0.17	8.4
				10°