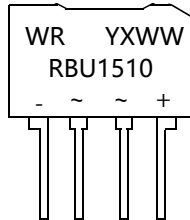


## Ultrasoft Recovery Bridge



### PINNING

| PIN | DESCRIPTION                   |
|-----|-------------------------------|
| 1   | Input Pin <sup>1</sup> ~      |
| 2   | Input Pin <sup>2</sup> ~      |
| 3   | Output Anode <sup>3</sup> +   |
| 4   | Output Cathode <sup>4</sup> - |

### Features

- Glass Passivated Chip Junction
- Reverse Voltage - 1000 V
- Forward Current - 15A
- High Surge Current Capability
- Designed For Surface Mount Application

### Benefits

- Case: RBU
- Terminals: Solderable Per MIL-STD-750

### Maximum Ratings and Electrical characteristics

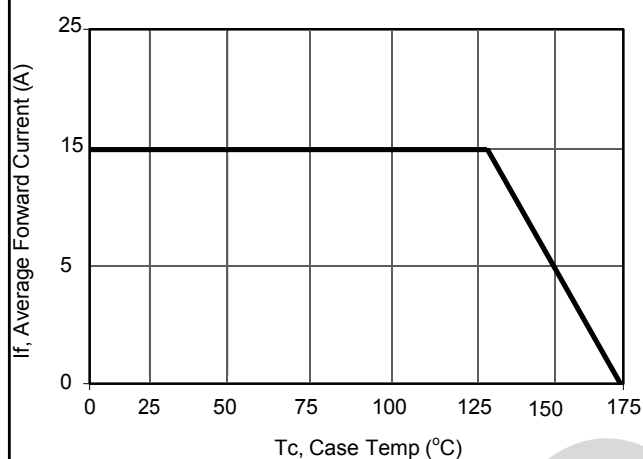
Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

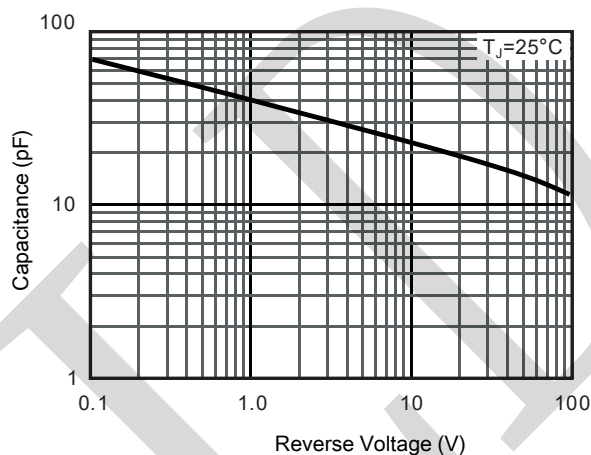
| Parameter                                                                                               | Symbols                           | WRRBU1510  | Units            |
|---------------------------------------------------------------------------------------------------------|-----------------------------------|------------|------------------|
| 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>                    | 15.0       | A                |
| Reverse Recovery Time.<br>IF=0.5A, IR=1A, IRR=0.25A                                                     | T <sub>rr</sub>                   | 10         | us               |
| Peak Forward Surge Current 8.3 ms Single<br>Half Sine Wave Superimposed on Rated<br>Load (JEDEC Method) | I <sub>FSM</sub>                  | 240        | A                |
| I <sup>2</sup> t rating for fusing ( 1ms< t < 10ms)                                                     | I <sup>2</sup> t                  | 288        | A <sup>2</sup> S |
| Maximum Forward Voltage at 7.5 A                                                                        | V <sub>F</sub>                    | 1.15       | V                |
| Maximum DC Reverse Current @TA=25 °C<br>at Rated DC Blocking Voltage @TA=125 °C                         | I <sub>R</sub>                    | 5<br>100   | μA               |
| Typical thermal resistance (Note 1)                                                                     | R <sub>thJA</sub>                 | 50         | °C/W             |
| Operating and Storage Temperature Range                                                                 | T <sub>j</sub> , T <sub>stg</sub> | -55 ~ +150 | °C               |

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

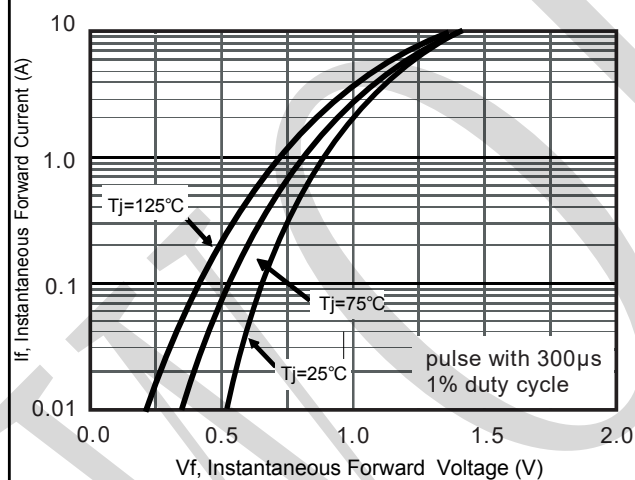
## RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



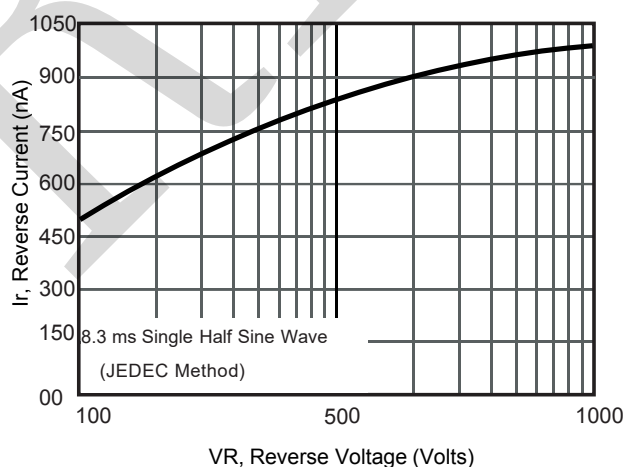
Current Derating, Case



Typical Junction Capacitance

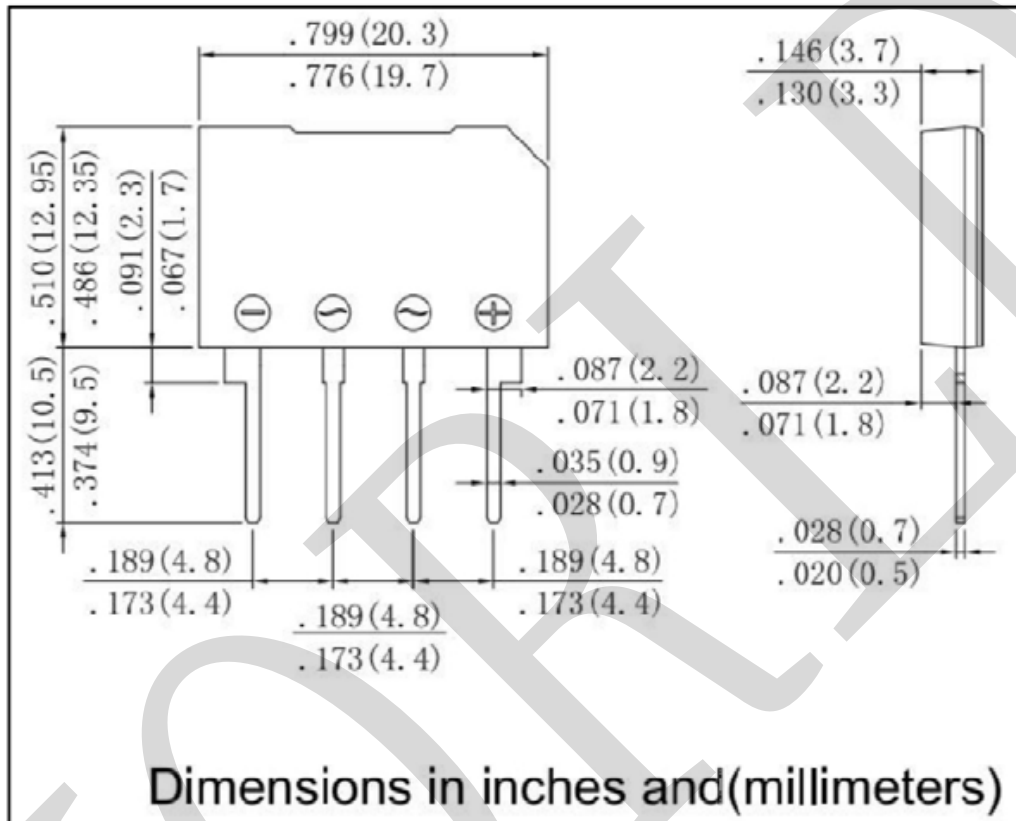


Typical Forward Voltage

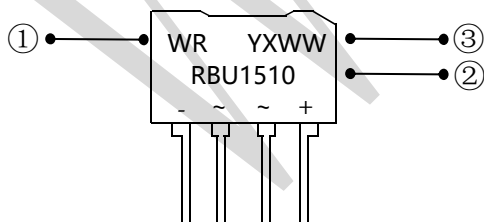


Typical Reverse Current

## PACKAGE OUTLINE DIMENSIONS



## Marking Information



- ①WR: Sofe-Bridge
- ②Product model : RBU1510
- ③PDC information :

Y X WW

WW:Week code(01 to 53)  
X:Internal identification code  
Y:Year code(ex:0=2020)