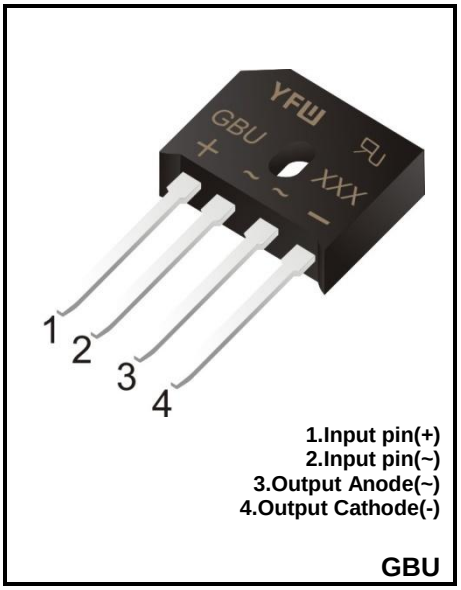
10.0A UITRASOFT RECOVERY BRIDGE RECTIFIER Reverse Voltage – 600 to 1000 V Forward Current – 10.0A



1.Input pin(+)
2.Input pin(~)
3.Output Anode(~)
4.Output Cathode(-)

GBU

FEATURES

- Uitrasoft recovery
- Low I_{RRM}, Low VF, Low V_{RRM}
- Glass Passivated Chip Junction
- Special frame design for heat dissipation
- Lead free in comply with EU RoHS 2011/65/EU directives

BENEFITS

- Reduced EMI
- Reduced Power loss and switching transistor
- Reduced snubbing

MECHANICAL DATA

- Case: GBU
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 3.9g /0.138oz

Maximum Ratings and Electrical characteristics

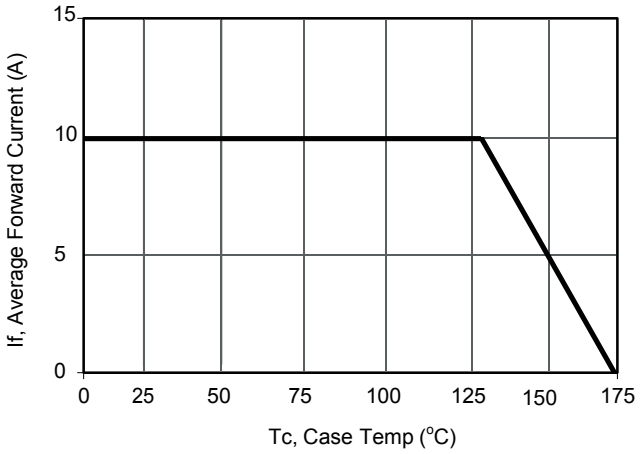
Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	WRGBU1006	WRGBU1008	WRGBU1010	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	10.0			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}	220			A
I2t Rating for Fusing(1ms≤t≤10ms)	I^2t	300			A^2S
Maximum Forward Voltage at 5.0 A	V_F	1.0			V
Maximum DC Reverse Current @T_A=25℃ at Rated DC Blocking Voltage @T_A=125℃	I_R	5 100			uA
Typical Junction Capacitance (Note1)	C_j	50			pF
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +175			°C

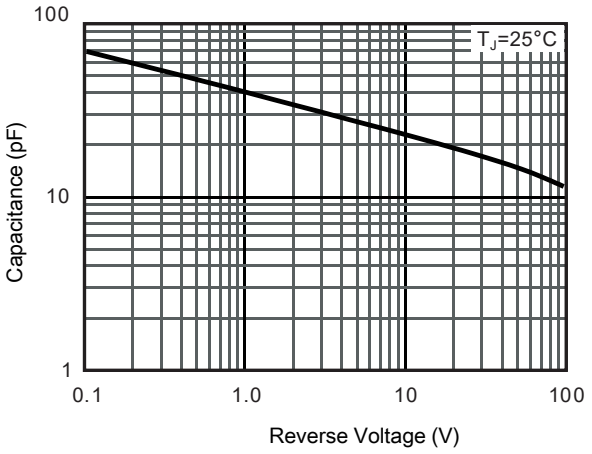
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Download from alldatasheet.com

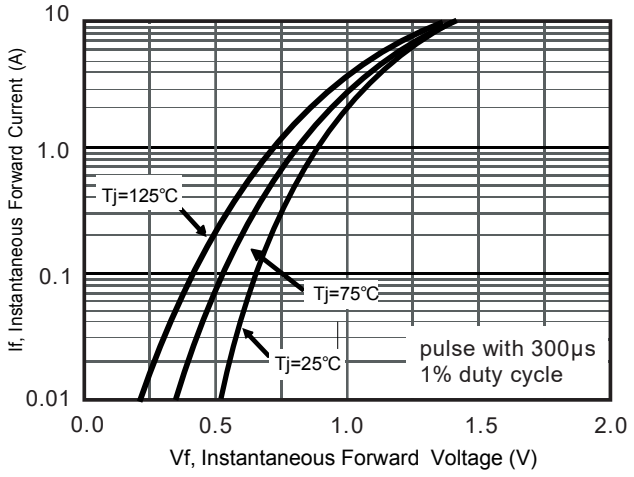
RATINGS AND CHARACTERISTICS CURVES (TA = 25 ˚C unless otherwise noted)



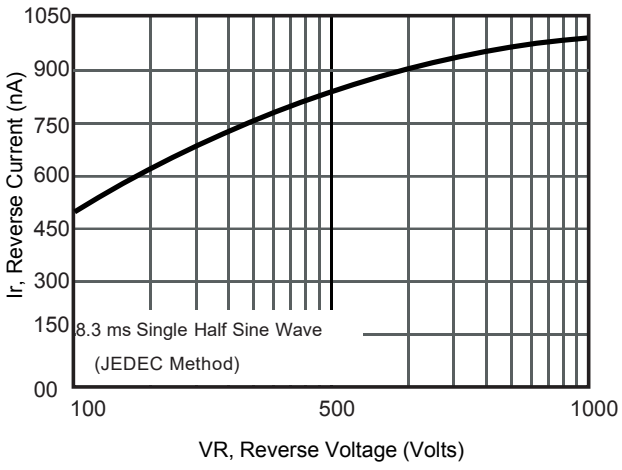
Current Derating, Case



Typical Junction Capacitance



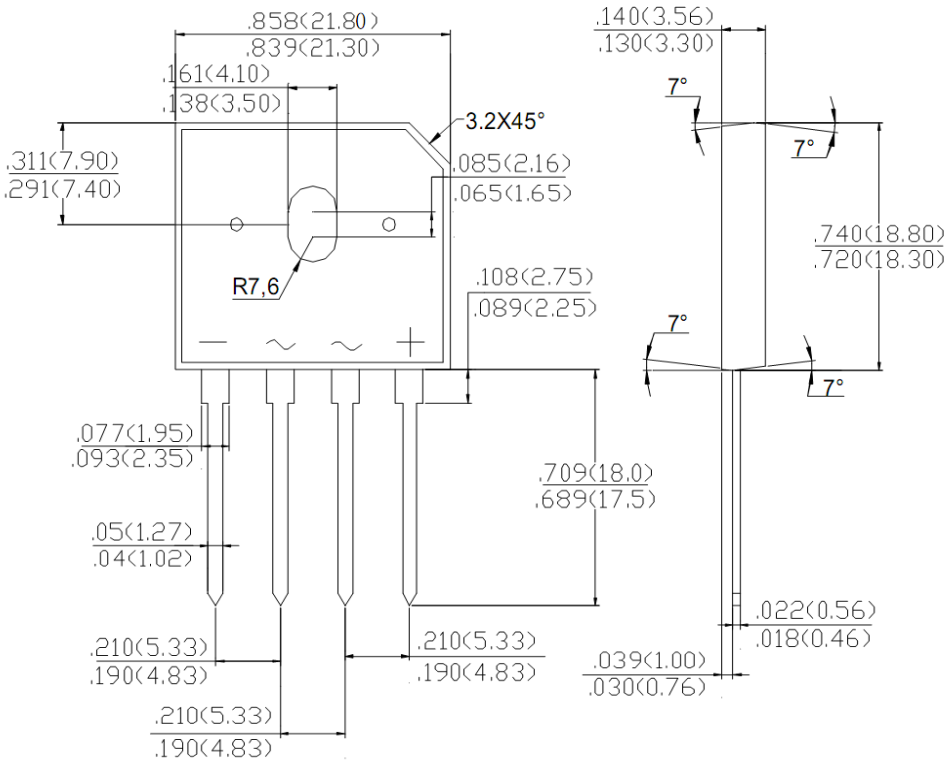
Typical Forward Voltage



Typical Reverse Current

Download from alldatasheet.com

Package Outline GBU



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
GBU	BOX	350	EIA-481-1

Download from alldatasheet.com