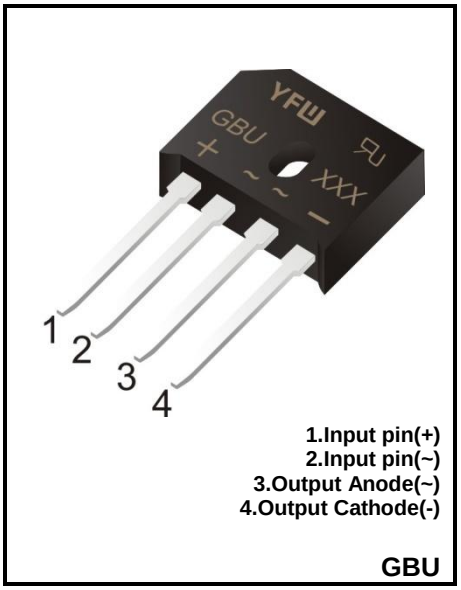
8.0A UITRASOFT RECOVERY BRIDGE RECTIFIER Reverse Voltage – 600 to 1000 V Forward Current – 8.0A



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

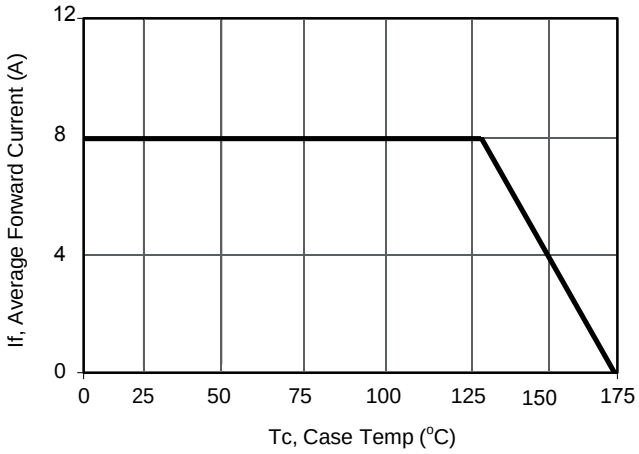
Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	WRGBU806	WRGBU808	WRGBU810	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	8.0			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}	175			A
I2t Rating for Fusing(1ms≤t≤10ms)	I^2t	127			A^2S
Maximum Forward Voltage at 4.0 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

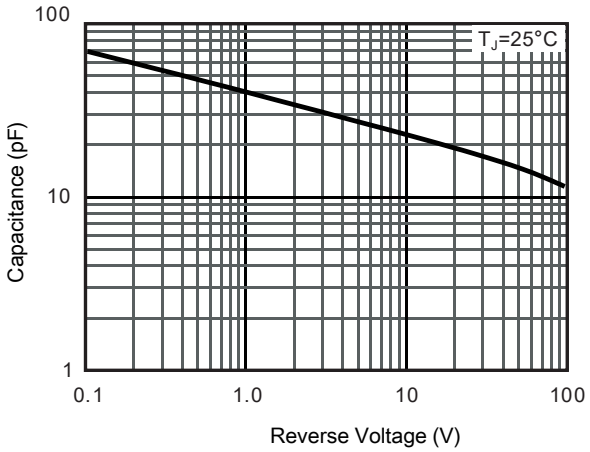
Note: 1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

Download from alldatasheet.com

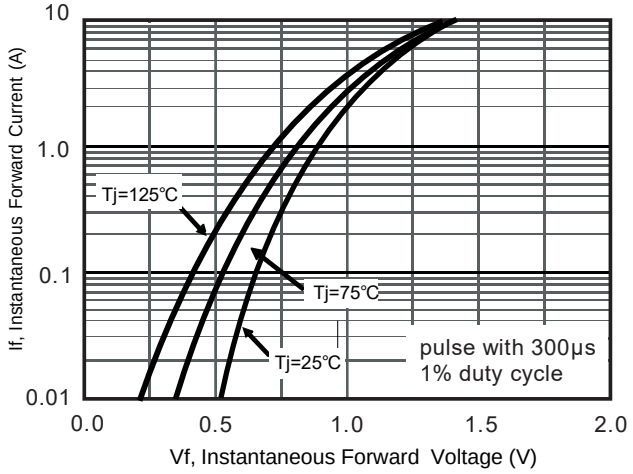
RATINGS AND CHARACTERISTICS CURVES (TA = 25 ˚C unless otherwise noted)



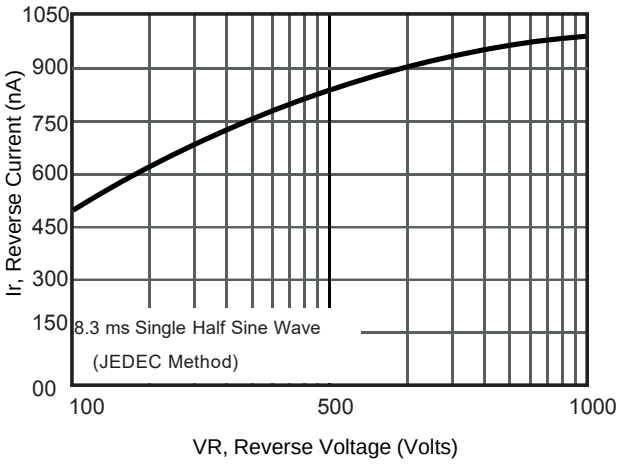
Current Derating, Case



Typical Junction Capacitance



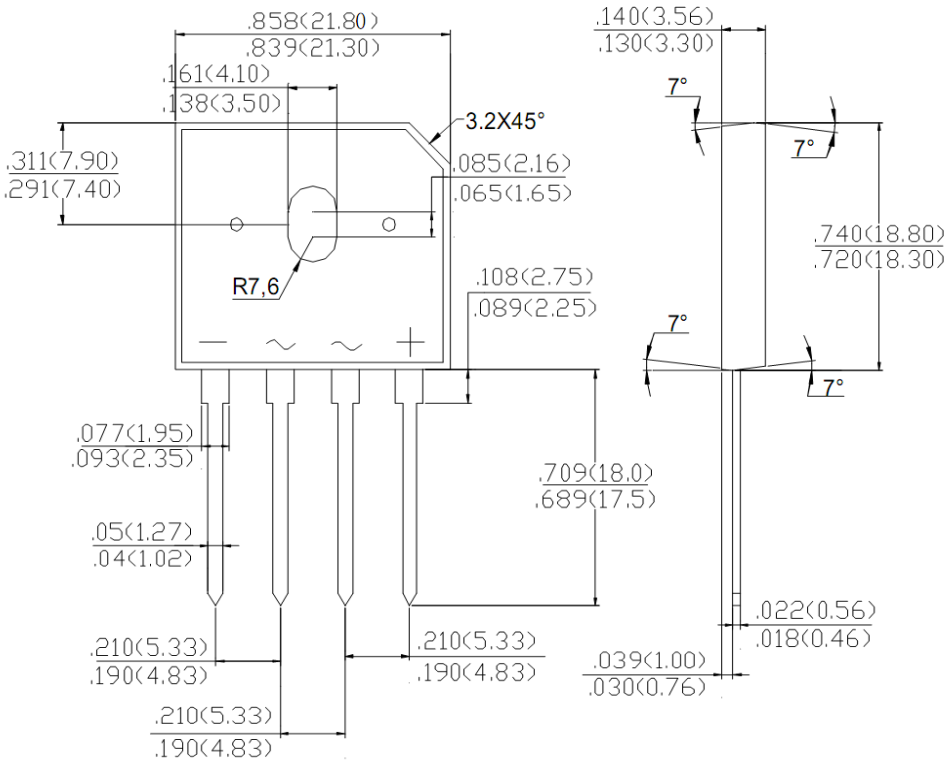
Typical Forward Voltage



Typical Reverse Current

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Package Outline GBU



Summary of Packing Options

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

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