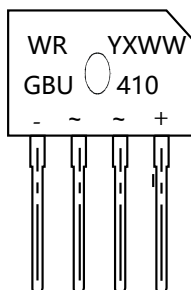


Ultrasoft Recovery Bridge



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 - 4A
- High Surge Current Capability
- Designed For Surface Mount Application

Benefits

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

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

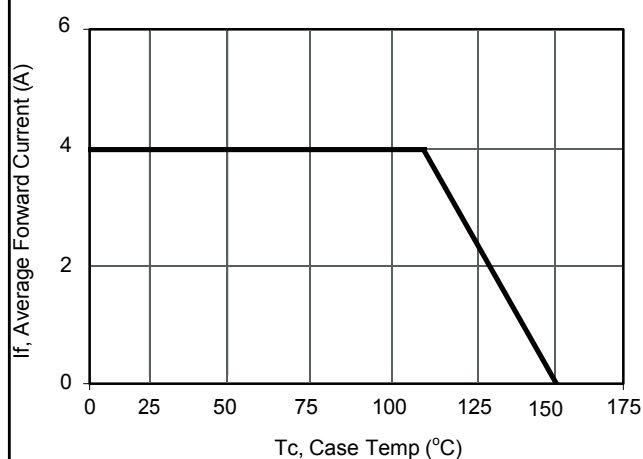
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	WRGBU410	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 _o	4.0	A
Reverse Recovery Time. IF=0.5A,IR=1A,IRR=0.25A	T _{rr}	10	us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	110	A
I ² t rating for fusing (1ms< t < 10ms)	I ² t	60.5	A ² S
Maximum Forward Voltage at 2.0 A	V _F	1.0	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	I _R	5 100	μA
Typical Junction Capacitance (Note1)	C _j	50	pF
Typical Thermal Resistance Junction to Ambient(Note 2)	R _{θJA}	26	°C/W
Typical Thermal Resistance Junction to Case(Note 2)	R _{θJC}	5.5	°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150	°C

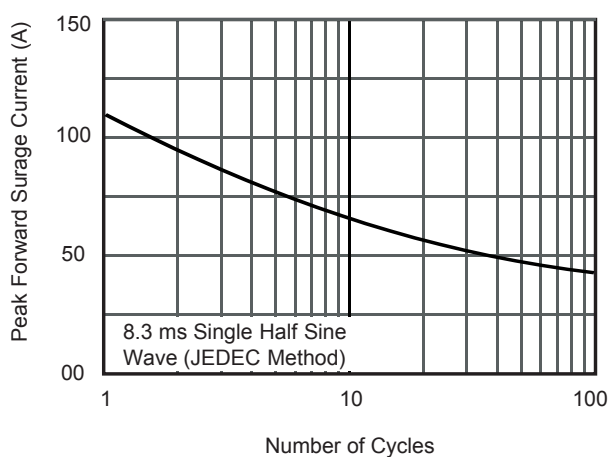
Note: 1. Measured at 1MHz and applied reverse voltage of 4 VDC.

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

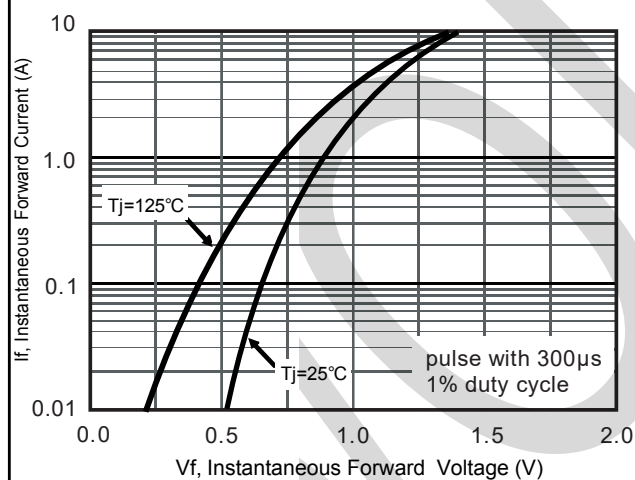
RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)



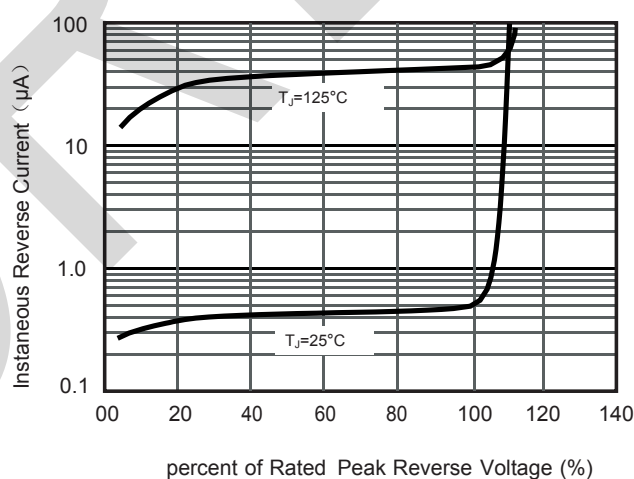
Current Derating, Case



Maximum Non-Repetitive Peak Forward Surge Current

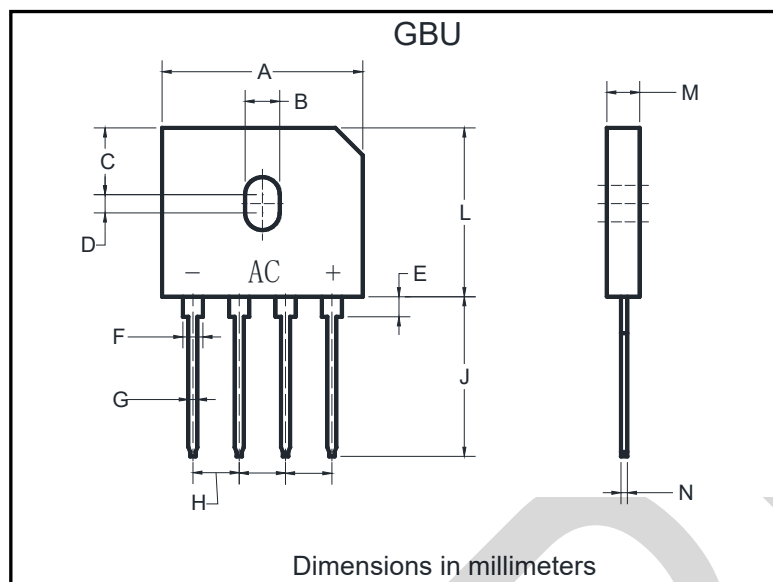


Typical Forward Voltage

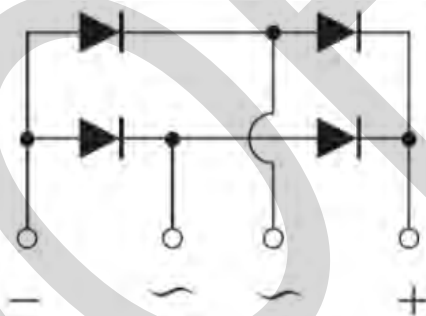


Typical Reverse Characteristics

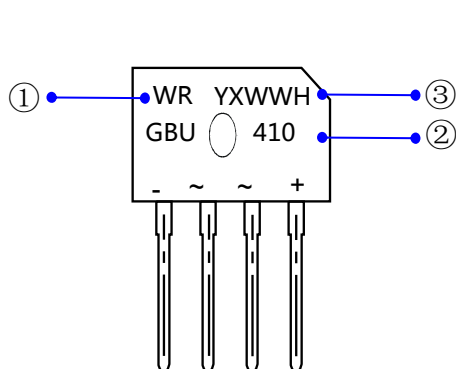
PACKAGE OUTLINE DIMENSIONS



GBU		
Dim	Min	Max
A	21.80	22.30
B	3.50	4.10
C	7.40	7.90
D	1.65	2.16
E	2.25	2.75
F	2.05	2.3
G	1.02	1.27
H	4.83	5.33
J	17.0	18.5
L	18.3	18.8
M	3.30	3.56
N	0.46	0.56



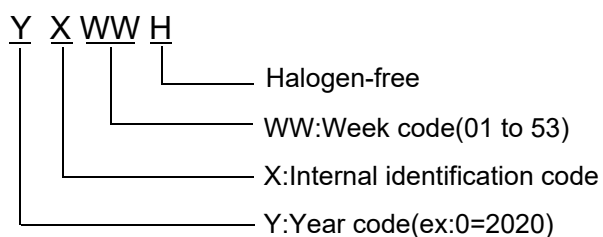
Marking Information



①WR : Soft bridge special code

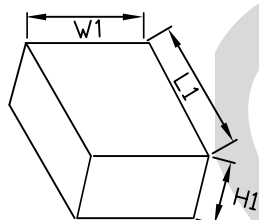
②Product model : GBU410

③PDC information :

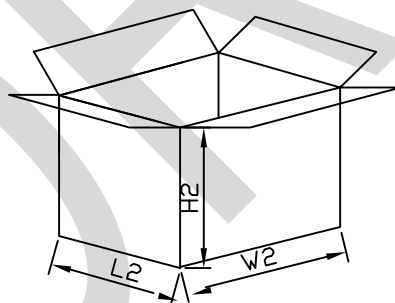


Packaging Information

1. Inside Box



2. Outside Box



Packaging Information

NO	UNIT	Inside Box			Outside Box		
		L1	W1	H1	L2	W2	H2
Size	mm	228	110	43	460	240	235
QTY	PCS	250PCS/carton			5,000PCS/carton,20boxes in total		
Note	Tolerance	≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm					