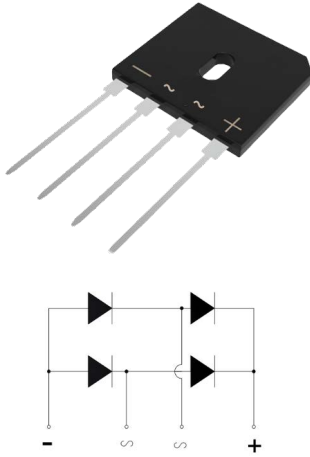


Ultrasoft Recovery Bridge

GBU



Features

- Ç Reverse Voltage - 1000 V
- Ç Forward Current - 6 A
- Ç Compliant with RoHS Provisions
- Ç Low forward voltage, high forward current
- Ç High forward surge current capability

Applications

- Ç Case: GBU
- Ç Switching Power Supply
- Ç Home Appliances, Office Devices
- Ç Industrial Auto-equipments

Maximum Ratings and Electrical characteristics

Ratings at 25 ºC ambient temperature unless otherwise specified.

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

Parameter	Symbols	WRGBU610	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	Io	6.0	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)	IFSM	150	A
I ² t rating for fusing (1ms< t < 8.3ms)	I ² t	93.3	A ² S
Maximum Forward Voltage at 3.0 A	VF	1.1	V
Maximum DC Reverse Current @TA=25 ºC at Rated DC Blocking Voltage @TA=125 ºC	IR	5 100	µA
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	ºC
Typical thermal resistance (Note 1)	RthJA RthJC	10 1.5	ºC/W

Note: 1. Thermal resistance junction to case, lead and ambient in accordance with JESD-51.

Unit mounted on glass-epoxy substrate with 1oz/ft² 20x20 mm copper pad per pin with heatsink

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

Fig.1 Current Derating, Case

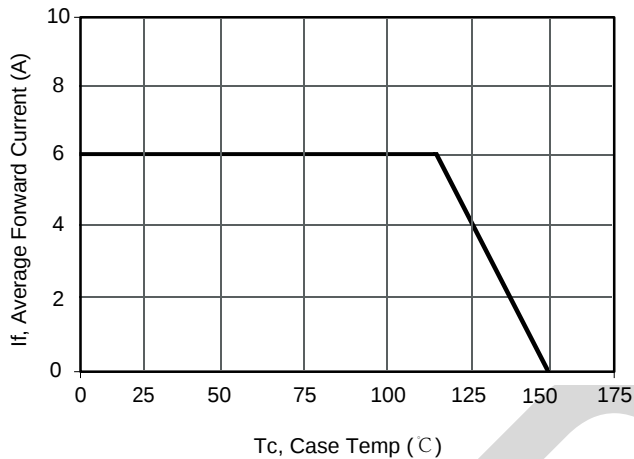


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

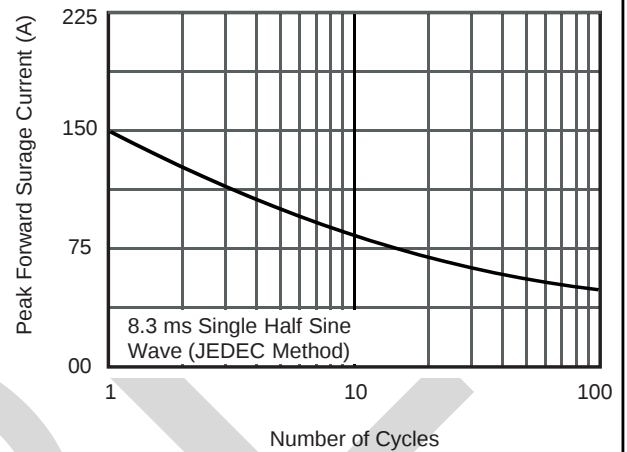


Fig.3 Typical Forward Voltage

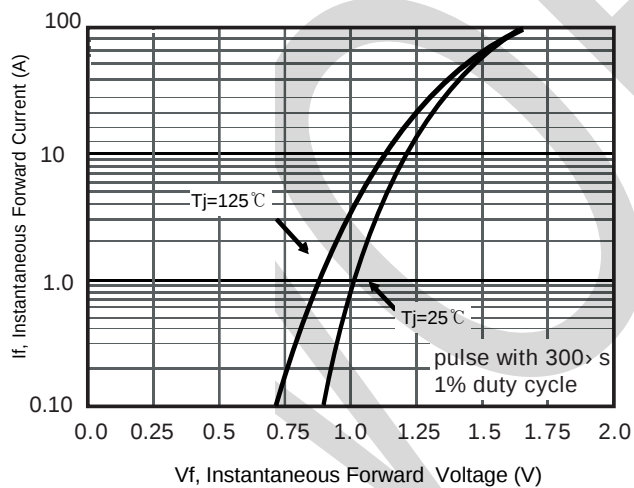
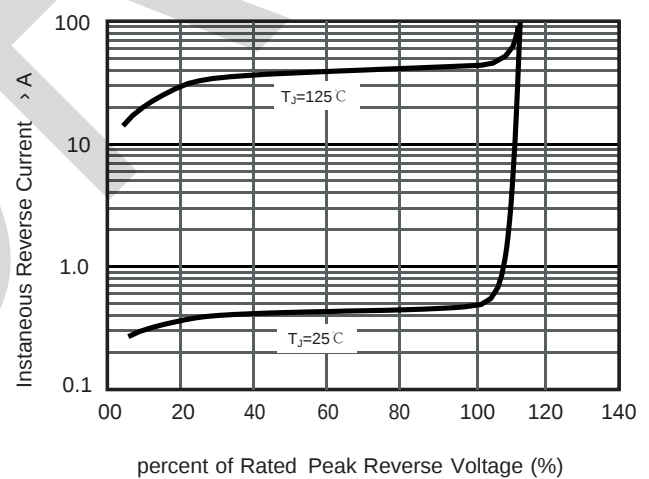
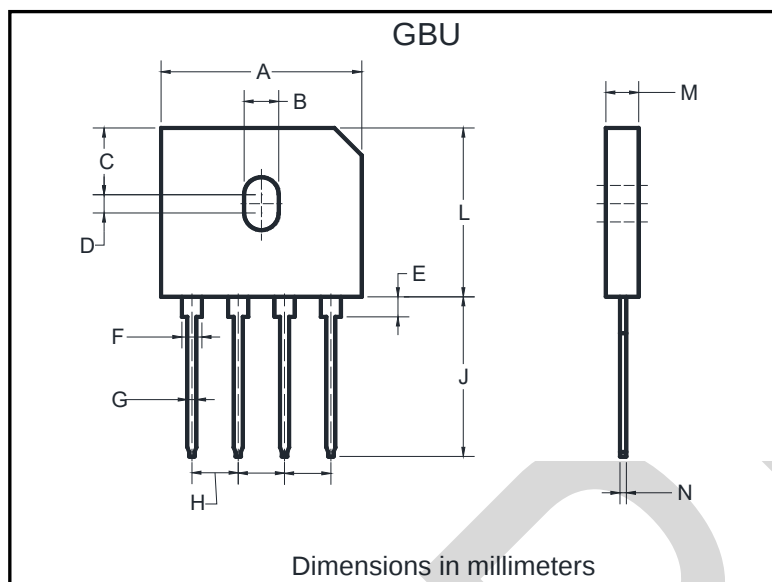


Fig.4 Typical Reverse Characteristics

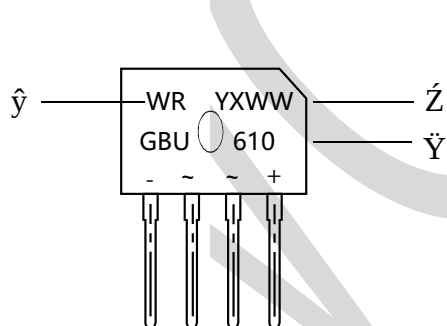


PACKAGE OUTLINE DIMENSIONS



GBU		
Dim	Min	Max
A	21.70	22.50
B	3.40	4.10
C	7.40	8.00
D	1.65	2.26
E	2.00	2.55
F	2.05	2.4
G	1.02	1.37
H	4.83	5.43
J	17.0	18.6
L	18.3	18.9
M	3.30	3.66
N	0.46	0.66

Marking Information



ŷ WR: Company's trademark

Ÿ Product model : GBU610

Ž PDC information

Y X WW

WW: Week code(01 to 53)

X: Internal identification code

Y: Year code(ex:0=2020)