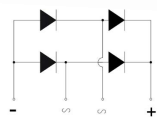
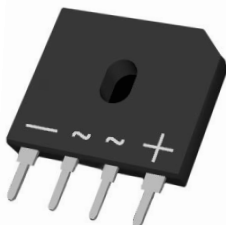


Glass Passivated Bridge Rectifiers

GBU2510-S



Features

- Reverse Voltage - 1000 V
- Forward Current - 25 A
- Compliant with RoHS Provisions
- Low forward voltage, high forward current
- High forward surge current capability

Applications

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

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	GBU2510-S	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	25	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	IFSM	330	A
I ² t rating for fusing (1ms< t < 10ms)	I ² t	452	A ² S
Maximum Forward Voltage at 12.5A	VF	1.1	V
Maximum DC Reverse Current @TA=25 °C at Rated DC Blocking Voltage @TA=125 °C	IR	5 500	μA
Typical Junction Capacitance Note1	Cj	70	pF
Typical Thermal Resistance (Note2)	R _{θJA}	10.0	°C/W
	R _{θJC}	2.0	
	R _{θJL}	1.5	
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150	°C

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

2. Unit Mounted on 100 x 100 x 1.6 mm Cu Plate Heatsink.

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

Fig.1 Current Derating, Case

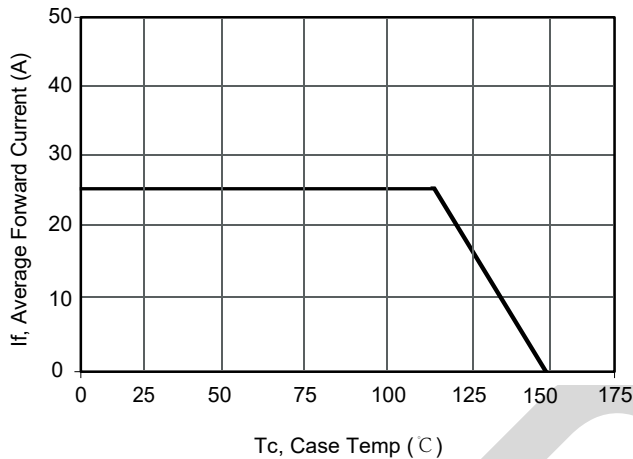


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

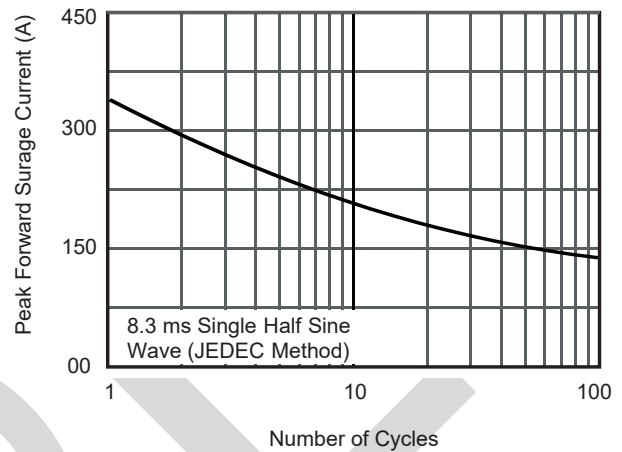


Fig.3 Typical Forward Voltage

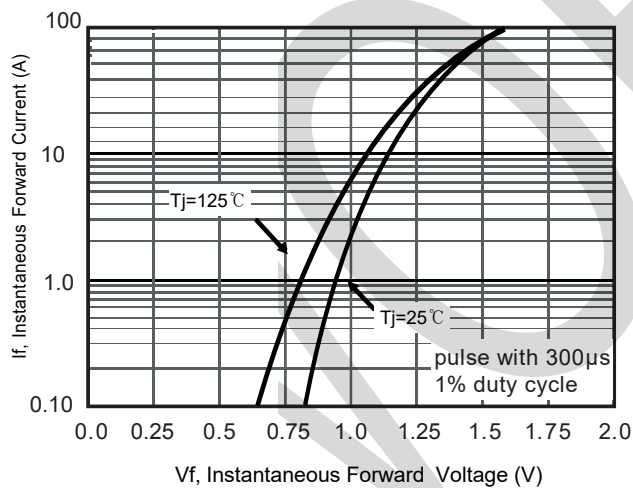
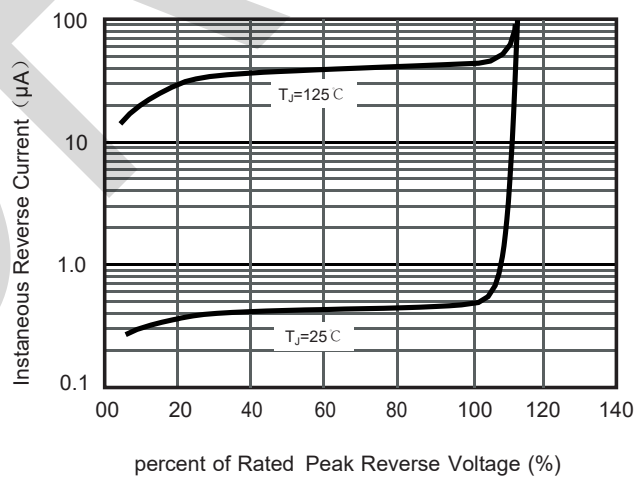
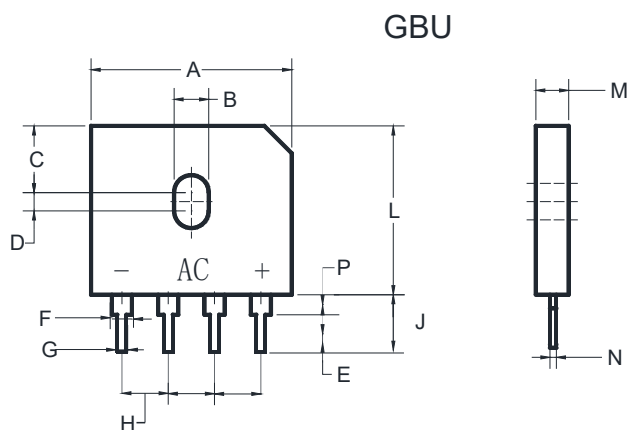


Fig.4 Typical Reverse Characteristics



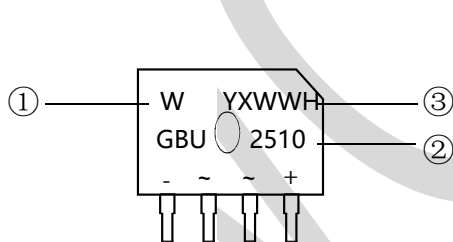
PACKAGE OUTLINE DIMENSIONS



Dimensions in millimeters

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	3.50	4.20
F	2.05	2.40
G	1.02	1.37
H	4.83	5.43
J	6.20	6.50
L	18.3	18.9
M	3.30	3.66
N	0.46	0.66
P	2.20	2.40

Marking Information



- ① W : Company's trademark
- ② Product model : GBU2510

③ PDC information :

Y X WW H

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