



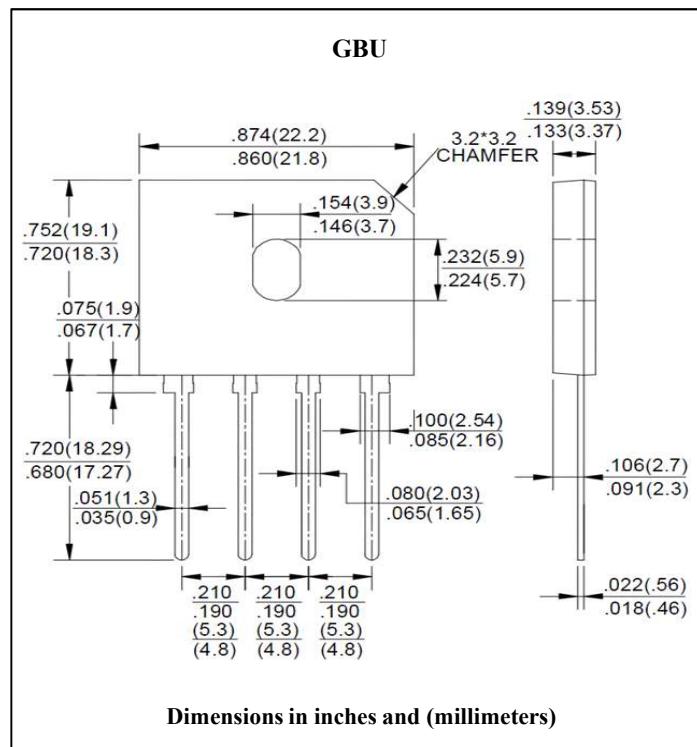
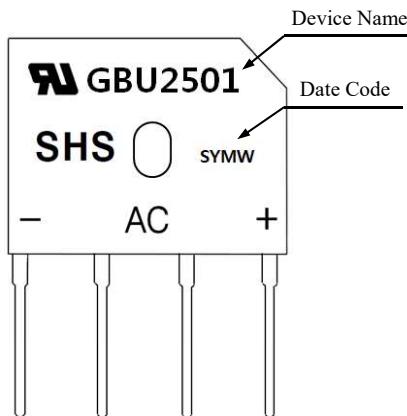
Glass Passivated Bridge Rectifiers

Reverse Voltage 50 to 1000 Volts Forward Current 25 Amperes

Features

- Surge overload rating -350 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material used carries underwriters laboratory classification 94V-O
- Mounting Position: Any

Marking



Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

Parameter	Symbol	GBU 2501	GBU 2502	GBU 2503	GBU 2504	GBU 2505	GBU 2506	GBU 2507	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current	I _{F(AV)}	25 (With heatsink)								A
		4.2 (@T _c =100°C, Without heatsink)								
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	350								A
Maximum Instantaneous Forward Voltage @12.5A	V _F	1.0								V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	10.0								uA
		500								uA
I ² t Rating for fusing (t<8.3ms)	I ² t	508								pF
Typical Junction Capacitance	C _J	70								pF
Typical Thermal Resistance	R _{th(j-c)}	2.2								°C /W
Operating Temperature Range	T _J	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

Note 1. Device mounted on 100mm×100mm × 1.6mm Cu Plate Heatsink

Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C



Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

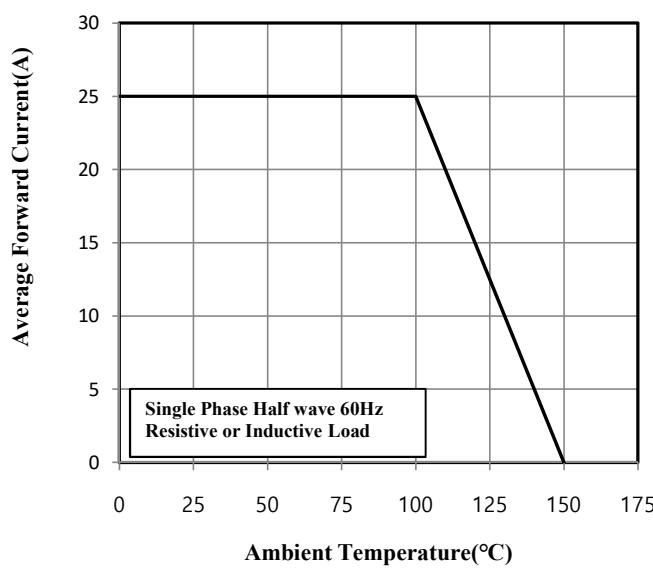


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

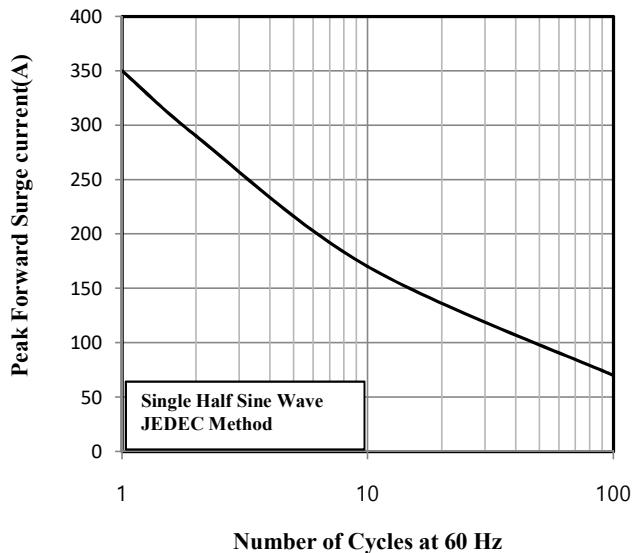


Fig.3 Typical Instantaneous Forward Characteristics

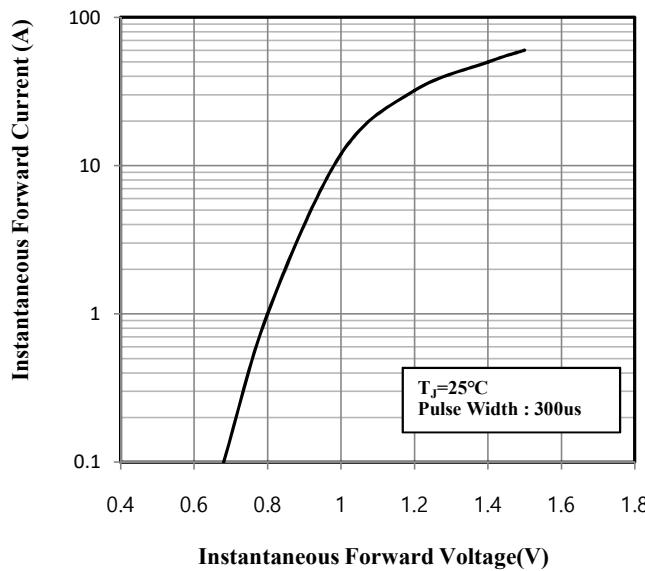


Fig.4 Typical Reverse Characteristics

