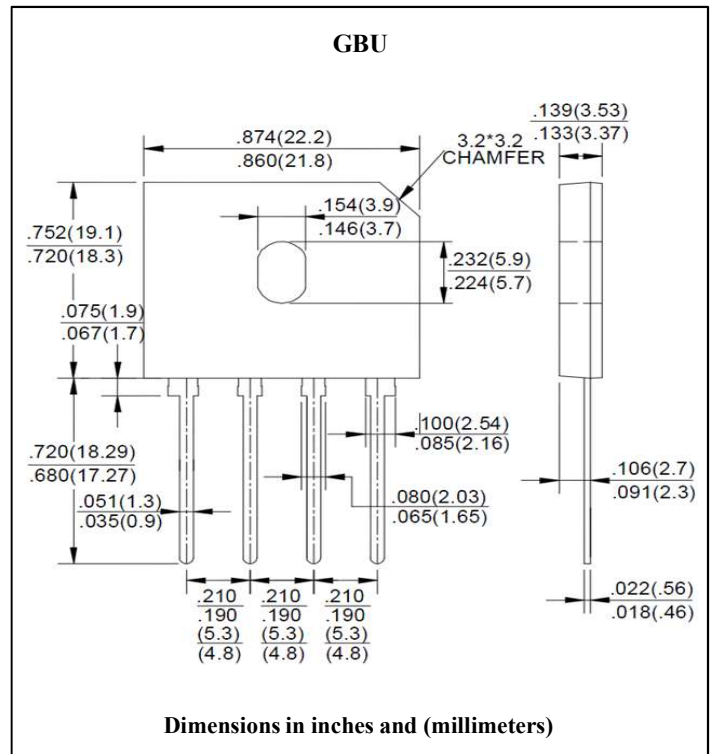
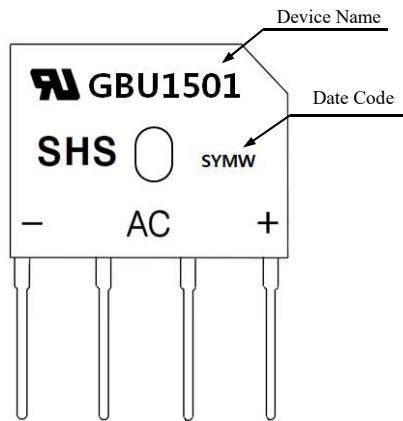


Glass Passivated Bridge Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 15 Amperes

Features

- Surge overload rating -250 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material used carries underwriters laboratory classification 94V-0
- 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 1501	GBU 1502	GBU 1503	GBU 1504	GBU 1505	GBU 1506	GBU 1507	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	$I_F(AV)$	15 (With heatsink)							A	Note 1
		3.2 (@ $T_c=100^\circ C$, Without heatsink)								
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	250							A	
Maximum Instantaneous Forward Voltage @7.5A	V_F	1.05							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	5.0							uA	$T_a=25^\circ C$
		500							uA	$T_a=125^\circ C$
$I^2 t$ Rating for fusing ($t<8.3ms$)	$I^2 t$	240							pF	
Typical Junction Capacitance	C_J	70							pF	Note 2
Typical Thermal Resistance	$R_{th(j-c)}$	2.2							$^\circ C / W$	Note 1
Operating Temperature Range	T_J	-55 to +150							$^\circ C$	
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$	

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

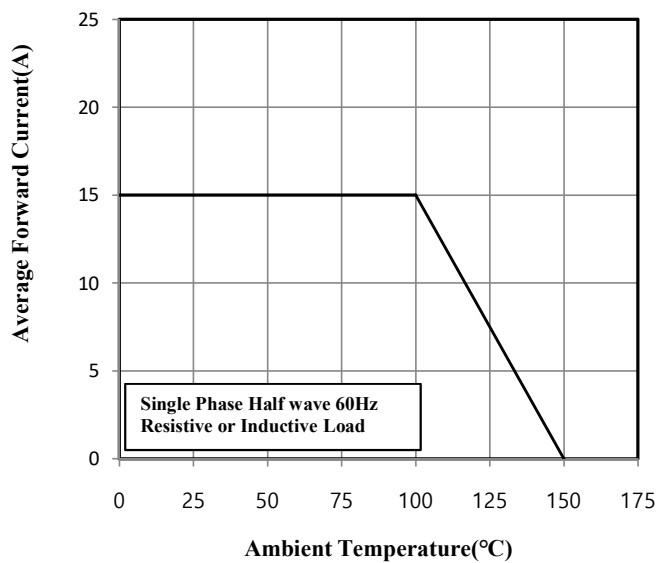


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

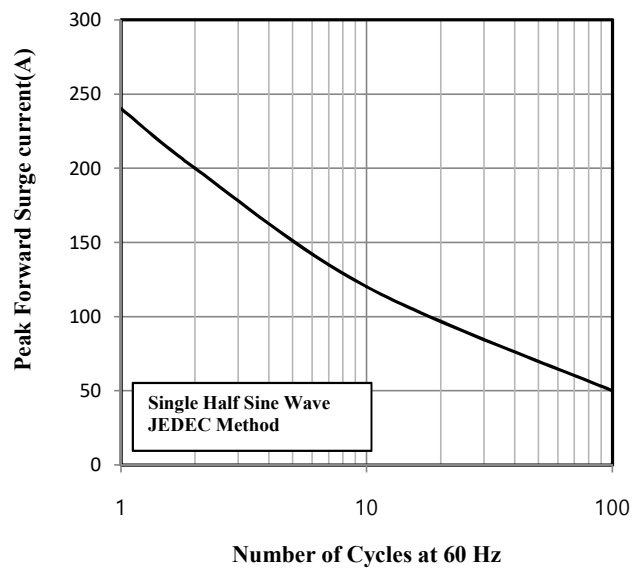


Fig.3 Typical Instantaneous Forward Characteristics

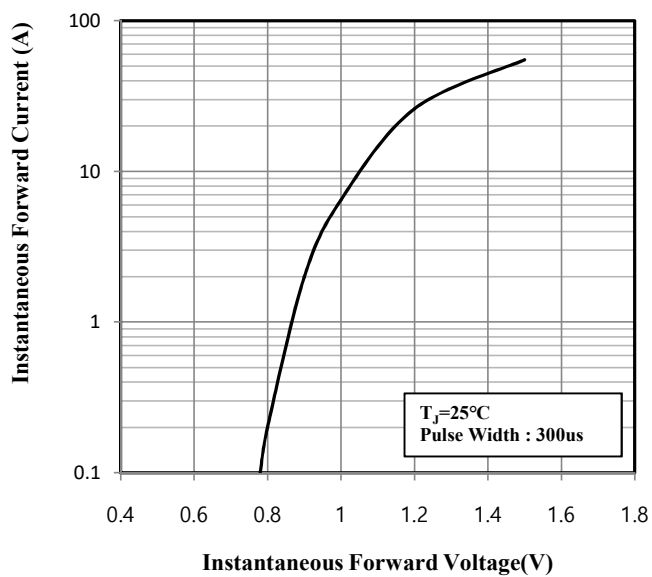


Fig.4 Typical Reverse Characteristics

