

GBU35005 THRU GBU3510

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 35 Amperes

Features

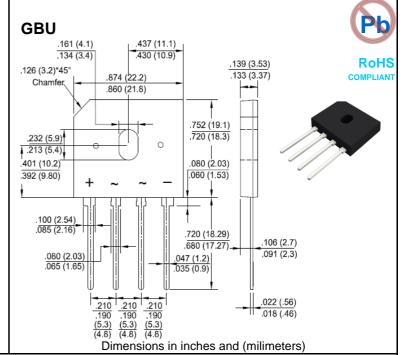
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- •Meet UL flammability classification 94V-0

Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

Applications

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

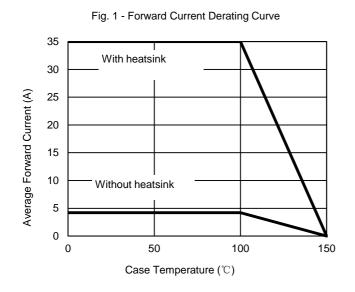
Characteristics	Symbol	GBU	GBU	GBU	GBU	GBU	GBU	GBU	Unit
		35005	3501	3502	3504	3506	3508	3510	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	lano	35.0							А
Rectified Current @ Tc=100°C (without heatsink)	I(AV)	4.2							
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	Irou	400							А
Superimposed on Rated Load (JEDEC Method)	IFSM								
I ² t Rating for Fusing (t<8.3mS)	l ² t	664							A ² s
Peak Forward Voltage per Diode at 17.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @TJ=25℃	l-	5.0							μA
DC Blocking Voltage per Diode $@T_J=125^{\circ}C$	lR	500							
Typical Junction Capacitance per Diode (Note1)	CJ	70							pF
Typical Thermal Resistance to case (Note2)	Rejc	2.2							°C/W
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150							$^{\circ}$

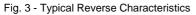
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

- 2.Device mounted on 100mm*100mm*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only

Rating and Characteristic Curves

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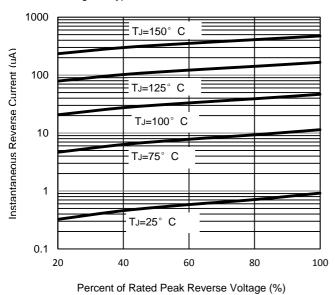


Fig. 2 - Maximum Non-Repetitive Surge Current

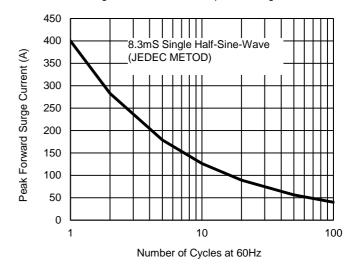
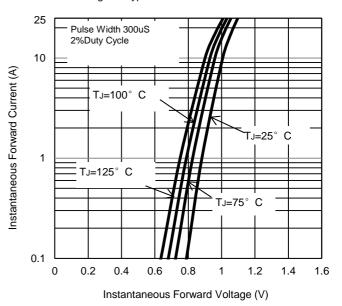


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.