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

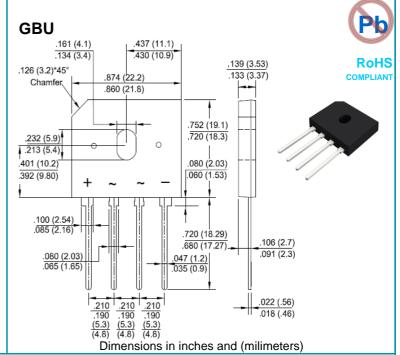
Mechanical Data

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

Note: Products with logo or or are made by HY Electronic (Cayman) Limited.

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%.

Symbol	GBU	GBU	GBU	GBU	GBU	GBU	GBU	Unit
Symbol	35005	3501	3502	3504	3506	3508	3510	
VRRM	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
leno	35.0							А
I(AV)	4.2							
Irou	400							А
IFSM								
l ² t	664						A ² s	
VF	1.1							V
lo.	5.0							μA
IK	500							
Cı	70						pF	
Rejc	2.2							°C/W
TJ	-55 to +150							$^{\circ}$
Тѕтс	-55 to +150							$^{\circ}$
	VRMS VDC I(AV) IFSM I ² t VF IR CJ RØJC TJ	Symbol 35005	Symbol 35005 3501 VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) Ifsm Ifsm I²t VF IR IR CJ Reuc TJ TJ	Symbol 35005 3501 3502 VRRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 I(AV) IFSM I* VF IR CJ ReJC TJ	Symbol 35005 3501 3502 3504 VRRM 50 100 200 400 VRMS 35 70 140 280 VDC 50 100 200 400 I(AV) 4.2 IFSM 400 I²t 664 VF 1.1 IR 500 CJ 70 RBJC 2.2 TJ -55 to +150	Symbol 35005 3501 3502 3504 3506 VRRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 I(AV) 4.2 IFSM 400 IFSM 400 IFSM 400 IR 5.0 TI 5.0 TO 70 Reuc 2.2 TJ -55 to +150	Symbol 35005 3501 3502 3504 3506 3508 VRMM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 4.2 IFSM 400 IFSM 400 IFSM 400 IFSM 5.0 IR 5.0 IR 5.0 CJ 70 RBJC 70 RBJC 70 RBJC 70 TJ 55 to +150	Symbol 35005 3501 3502 3504 3506 3508 3510 VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 I(AV) 4.2 IFSM 400 IFSM 400 IFSM 400 IFSM 5.0 IR 5.0 IR 5.0 CJ 70 Reuc 2.2 TJ -55 to +150

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 GBU35005 THRU GBU3510



Fig. 1 - Forward Current Derating Curve

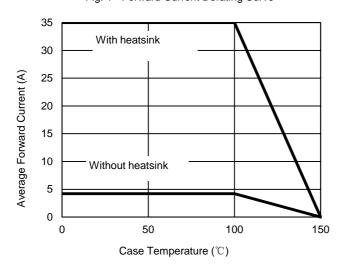


Fig. 3 - Typical Reverse Characteristics

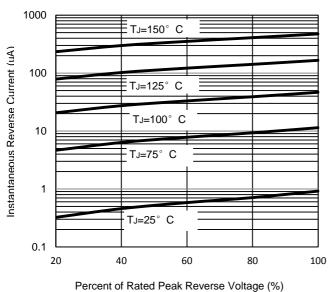


Fig. 2 - Maximum Non-Repetitive Surge Current

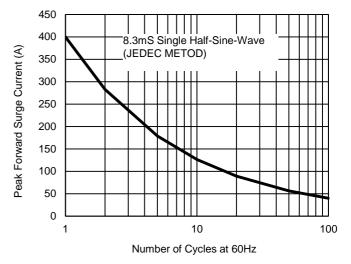
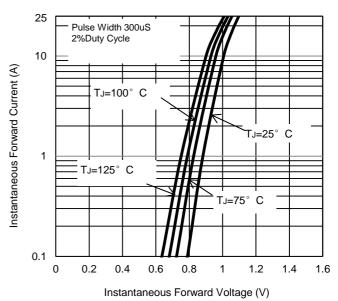


Fig. 4 - Typical Forward Characteristics





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ALL specifications and data are subject to be changed without notice to improve reliability function or design or other reasons.

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