

**Glass Passivated Bridge Rectifiers****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

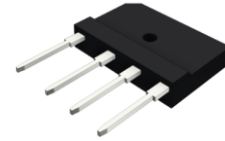
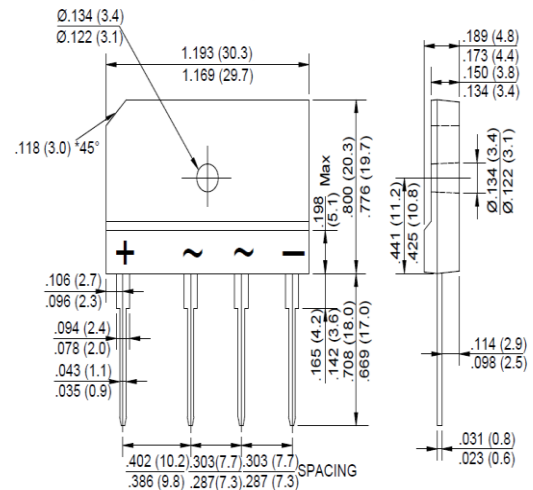
- Mounting position: Any

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

Applications

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

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

GBJ**RoHS
COMPLIANT**

Package Outline Dimensions in Inches (Millimeters)

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	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	Unit
		35005	3501	3502	3504	3506	3508	3510	
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 nt (with heatsink Note 2)	I _(AV)	35.0							A
Rectified Curre @ T _c =100℃ (without heatsink)		5.0							
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	400							A
I ² t Rating for Fusing (t<8.3mS)	I ² t	664							A ² s
Peak Forward Voltage per Diode at17.5A DC	V _F	1.1							V
Maximum DC Reverse Current at Rated @T _J =25℃	I _R	10.0							μA
DC Blocking Voltage per Diode @T _J =125℃		500							
Typical Junction Capacitance per Diode (Note1)	C _J	85							pF
Typical Thermal Resistance to Ambient (Note2)	R _{θJA}	4.0							℃/W
Typical Thermal Resistance to case (Note2)	R _{θJC}	0.6							
Typical Thermal Resistance to lead (Note2)	R _{θJL}	1.5							
Operating Junction Temperature Range	T _J	-55 to +150							℃
Storage Temperature Range	T _{STG}	-55 to +150							℃

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

2. Device mounted on 300mm*300mm*1.6mm Cu plate heatsink.

3. The typical data above is for reference only

GBJ35*-U-00/99-00/01

Rev. 11, 18-May-2020



Fig. 1 - Forward Current Derating Curve

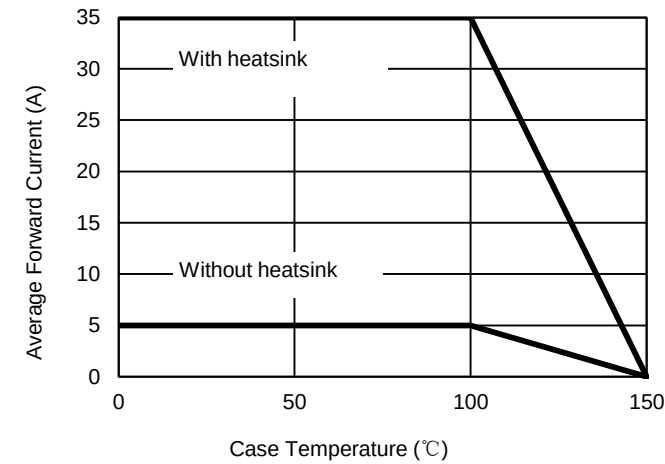


Fig. 2 - Maximum Non-Repetitive Surge Current

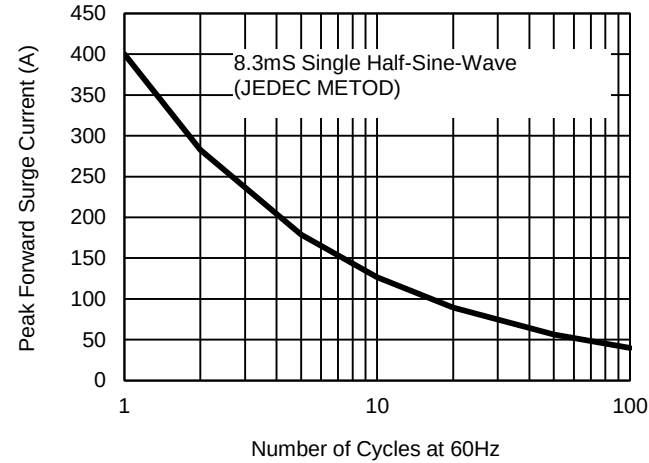


Fig. 3 - Typical Reverse Characteristics

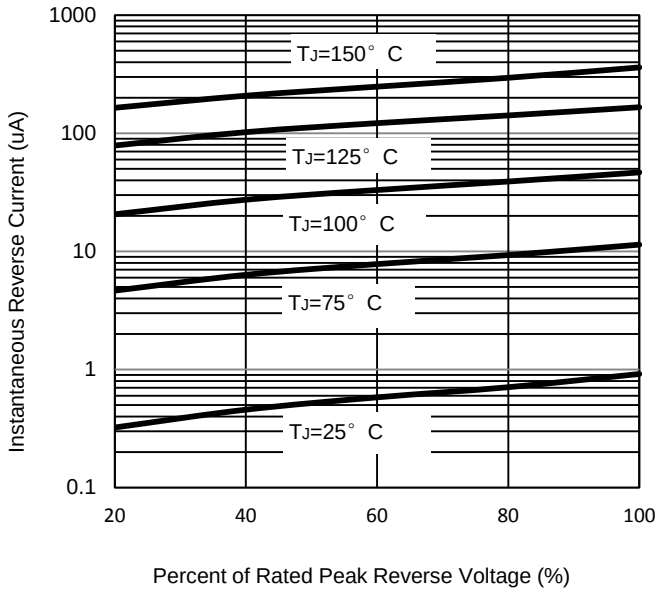
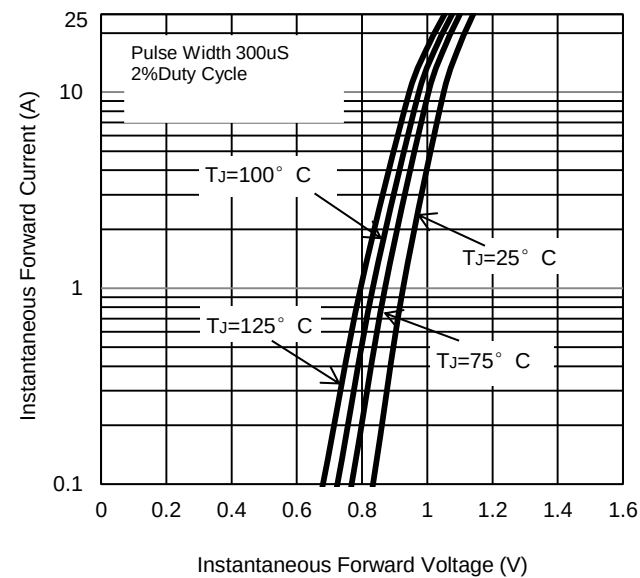


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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