

GBU1506U

Low VF 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

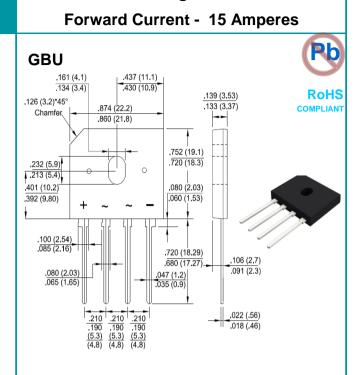
Mounting position: Any

Note: Products with logo

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 - 600 Volts

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	GBU1506U	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward (with heatsink Note 2)	kasa	15.0	Α
Rectified Current @ Tc=100°C (without heatsink)	I(AV)	3.2	A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	240	А
Superimposed on Rated Load (JEDEC Method)			A
I ² t Rating for Fusing (t<8.3mS)	l ² t	239	A ² s
Peak Forward Voltage per Diode at 7.5A DC	VF	0.9	V
Maximum DC Reverse Current at Rated @TJ=25℃	IR –	5.0	
DC Bolcking Voltage per Diode @Tj=125°C	IR	120	μΑ
Typical Junction Capacitance per Diode (Note1)	Сл	70	pF
Typical Thermal Resistance to Ambient (Note2)	Reja	8	
Typical Thermal Resistance to case (Note2)	Rejc	2	°C/W
Typical Thermal Resistance to lead (Note2)	Rejl	1.5	
Operating Junction Temperature Range	TJ	-55 to +150	Ĉ
Storage Temperature Range	Тѕтс	-55 to +150	°C

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 GBU1506U



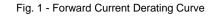
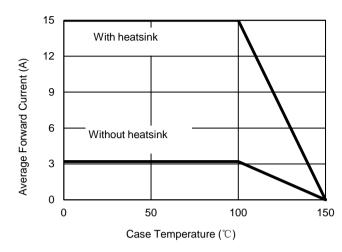
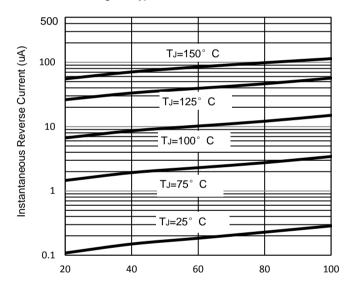


Fig. 2 - Maximum Non-Repetitive Surge Current







Percent of Rated Peak Reverse Voltage (%)

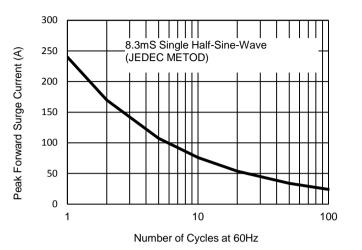
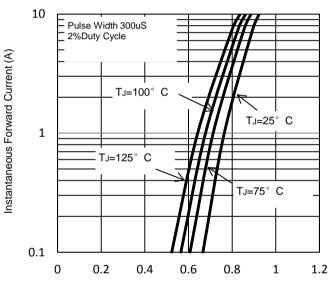


Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Voltage (V)

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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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