

GBU1508L

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 and 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%.

Characteristics	Symbol	GBU1508L	Unit
Maximum Repetitive Peak Reverse Voltage	Vrrm	800	V
Maximum RMS Voltage	Vrms	560	V
Maximum DC Blocking Voltage	VDC	800	V
Maximum Average Forward Rectified Current (with heatsink Note 2)	l(AV)	15.0	•
'@ TC=100℃ (without heatsink)		3.2	Α
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	0.95	V
Maximum DC Reverse Current at Rated @TJ=25 $^\circ$ C	IR	5.0	
DC Blocking Voltage per Diode @Tj=125°C		500	μA
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	°C
Storage Temperature Range	Tstg	-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



Reverse Voltage - 800 Volts

Rating and Characteristic Curves GBU1508L













Percent of Rated Peak Reverse Voltage (%)



Fig. 4 - Typical Forward Characteristics



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