GBJ15005 THRU GBJ1510

Glass Passivated Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 15 Amperes

Features

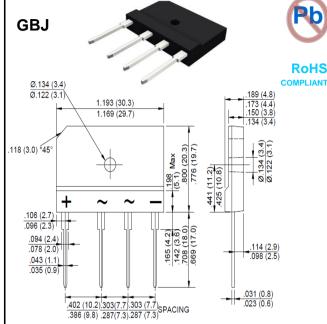
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability

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.



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%.

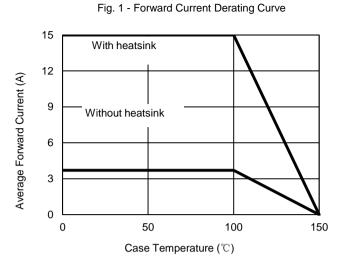
Characteristics	Symbol	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	Unit
	Cymbol	15005	1501	1502	1504	1506	1508	1510	单位
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	>
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2)	I(AV)	15.0 3.7							А
Rectified Current @ Tc=100°C (without heatsink)	I(AV)								
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM	240							А
Superimposed on Rated Load (JEDEC Method)	IFSM								
I ² t Rating for Fusing (t<8.3mS)	l ² t	240							A ² s
Peak Forward Voltage per Diode at 7.5A DC	VF	1.0							V
Maximum DC Reverse Current at Rated @TJ=25°C	l _R	5.0 500							μА
DC Blocking Voltage per Diode @T _J =125 $^{\circ}$ C	IR								
Typical Junction Capacitance per Diode (Note1)	C1	60							pF
Typical Thermal Resistance to Ambient (Note2)	Reja	Reja 4.5							
Typical Thermal Resistance to case (Note2)	Rejc	Reuc 0.8							°C/W
Typical Thermal Resistance to lead (Note2)	Rejl	1.5							
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$

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

GBJ15*-U/B-00/99-00/01 Rev. 9, 22-Apr-2019





300

EX 250

B.3mS Single Half-Sine-Wave
(JEDEC METOD)

150

100

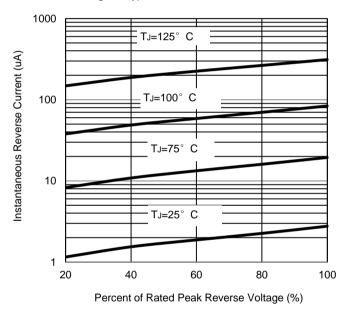
100

Number of Cycles at 60Hz

Fig. 2 - Maximum Non-Repetitive Surge Current

Fig. 3 - Typical Reverse Characteristics

Fig. 4 - Typical Forward Characteristics



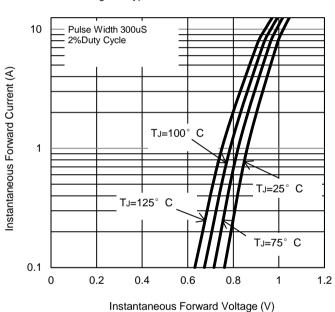
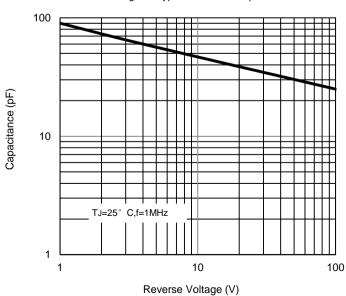


Fig. 5 - Typical Junction Capacitance



The curve above is for reference only.

GBJ15*-U/B-00/99-00/01 Rev. 9, 22-Apr-2019



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Rev. 2, 16-Mar-2017

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