

GBPC15005 THRU GBPC1510

Glass Passivated Bridge Rectifiers

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

Features

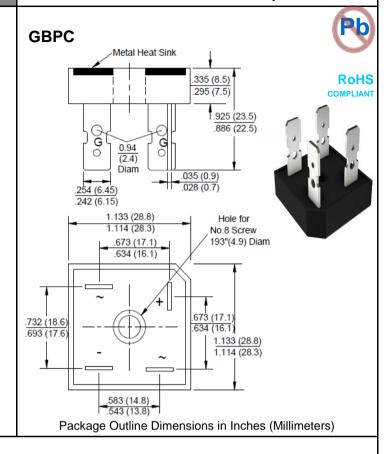
- Glass passivated chip
- Low forward voltage drop
- •Meet UL flammability classification 94V-0

Mechanical Data

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

Applications

 General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.



Maximum Ratings and Electrical Characteristics

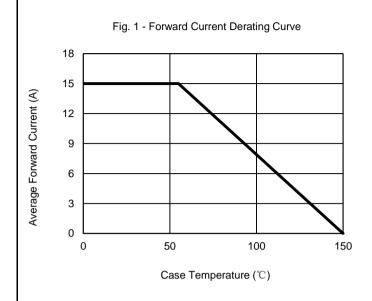
Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

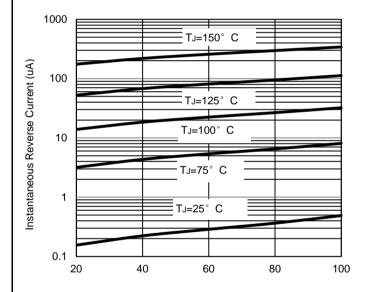
For capacitive load, derate current by 20%.

Characteristics	Symbol	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	Unit
	Symbol	15005	1501	1502	1504	1506	1508	1510	
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 $^{\circ}$ C	I(AV)	15						Α	
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,	IFSM 300							А	
Superimposed on Rated Load (JEDEC Method)	IFSIVI	500							
I ² t Rating for Fusing (t<8.3mS)	I ² t	373.5						A ² s	
Peak Forward Voltage per Diode at 7.5A DC	VF	1.1							V
Maximum DC Reverse Current at Rated @TJ=25℃	In.	JR 5							
DC Blocking Voltage per Diode @TJ=125°C	IK	500							μΑ
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$









Percent of Rated Peak Reverse Voltage (%)

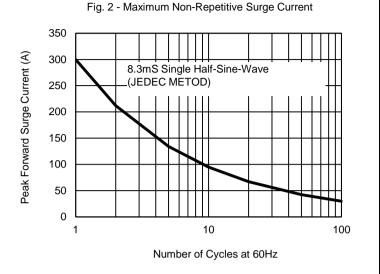
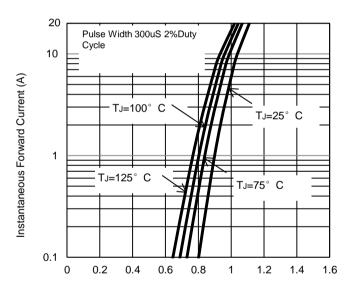


Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Voltage (V)

The curve above is for reference only.