

## **GBPC50005 THRU GBPC5010**

## **Glass Passivated Bridge Rectifiers**

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

#### **Features**

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

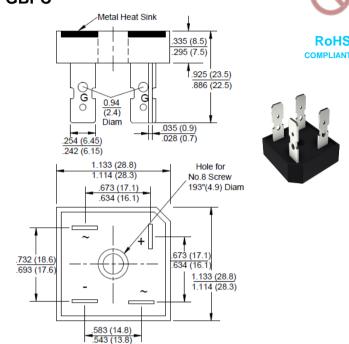
#### **Mechanical Data**

- 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.

### **GBPC**



Package Outline Dimensions in Inches (Millimeters)

## **Maximum Ratings and Electrical Characteristics**

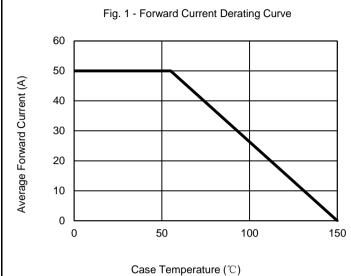
Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

Symbol	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	Unit
Gyillboi	50005	5001	5002	5004	5006	5008	5010	
VRRM	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
I(AV)	50							Α
IFOM	JECM 450							А
IF5M	450							A
l <sup>2</sup> t	664						A <sup>2</sup> s	
VF	1.1							V
ln.	5						μА	
IK	500							
TJ	-55 to +150							$^{\circ}$
Tstg	-55 to +150							$^{\circ}$
	VRMS I(AV) IFSM I <sup>2</sup> t VF IR	Symbol   50005	Symbol   50005   5001	Symbol	Symbol         50005         5001         5002         5004           VRRM         50         100         200         400           VRMS         35         70         140         280           I(AV)         50           IFSM         450           I²t         664           VF         1.1           IR         5           TJ         -55 to +15	Symbol         50005         5001         5002         5004         5006           VRRM         50         100         200         400         600           VRMS         35         70         140         280         420           I(AV)         50           IFSM         450           I²t         664           VF         1.1           IR         5           500         -55 to +150	Symbol         50005         5001         5002         5004         5006         5008           VRRM         50         100         200         400         600         800           VRMS         35         70         140         280         420         560           I(AV)         50           IFSM         450           VF         1.1           IR         500           TJ         -55 to +150	Symbol         50005         5001         5002         5004         5006         5008         5010           VRMM         50         100         200         400         600         800         1000           VRMS         35         70         140         280         420         560         700           I(AV)         50         450





(V) 450 400 350 300 250 200 150 150

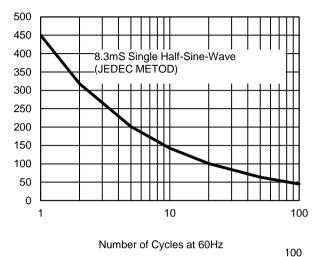


Fig. 2 - Maximum Non-Repetitive Surge Current

Fig. 3 - Typical Reverse Characteristics

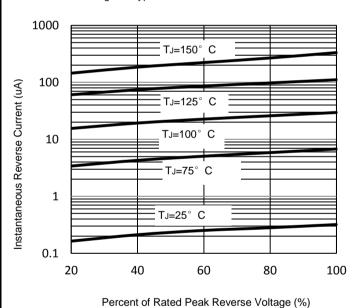
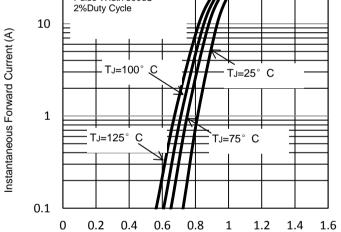


Fig. 4 - Typical Forward Characteristics

25 Pulse Width 300uS
2%Duty Cycle

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Instantaneous Forward Voltage (V)

The curve above is for reference only.