

# **GBPC50005 THRU GBPC5010**

# Glass Passivated Bridge Rectifiers

#### Features

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

# **Mechanical Data**

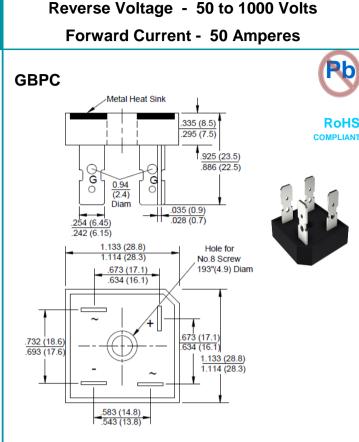
- Polarity: Symbol marked on body
- Mounting position: Any
- Note: Products with logo

are made by HY Electronic (Cayman) Limited.

or hy

# Applications

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



Package Outline Dimensions in Inches (Millimeters)

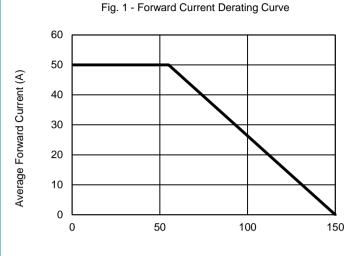
### **Maximum Ratings and Electrical Characteristics**

Rating at  $25^{\circ}$ 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
	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							А
IFOM	450							А
IF SIVI	UCT							~
l <sup>2</sup> t	664						A <sup>2</sup> s	
VF	1.1						V	
In	5							μA
IK	500							μΛ
TJ	-55 to +150						°C	
Тѕтс	-55 to +150							°C
	VRRM VRMS I(AV) IFSM I <sup>2</sup> t VF IR IR TJ	Symbol  50005    VRRM  50    VRMS  35    I(AV)	Symbol  50005  5001    VRRM  50  100    VRMS  35  70    I(AV)	Symbol  50005  5001  5002    VRRM  50  100  200    VRMS  35  70  140    I(AV)	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			

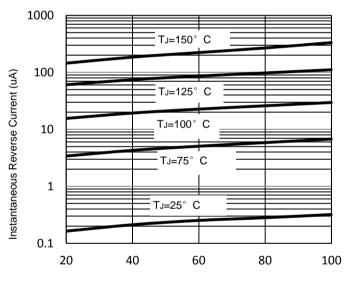
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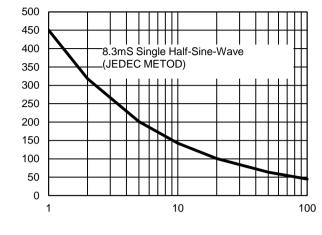


Case Temperature (°C)

#### Fig. 3 - Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage (%)



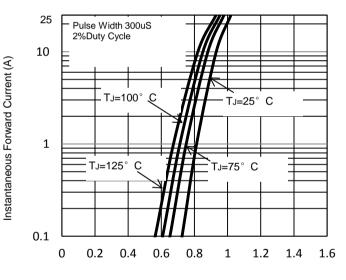
Peak Forward Surge Current (A)

Fig. 2 - Maximum Non-Repetitive Surge Current

Number of Cycles at 60Hz



Fig. 4 - Typical Forward Characteristics



Instantaneous Forward Voltage (V)

The curve above is for reference only.

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