

GBPC50005 THRU GBPC5010

Glass Passivated Bridge Rectifiers 玻璃钝化整流桥

Reverse Voltage - 50 to 1000 Volts 反向电压 50-1000V Forward Current - 50 Amperes 正向电流 50A

Features 特征

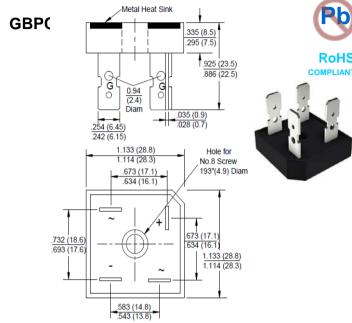
- Glass passivated chip 玻璃钝化芯片
- Low forward voltage drop 正向压降低

Mechanical Data 外观信息

- Polarity: Symbol marked on body 极性:标志在产品的本体上
- Mounting position: Any 安装位置: 任何位置

Applications 应用

- General purpose use in AC/DC bridge full wave rectification, for home appliances, office equipment, etc.
- 一般应用于交流/直流桥式全波整流,如:家用电器,办公设备等。



Package Outline Dimensions in Inches (Millimeters)

封装外观尺寸单位英寸(毫米)

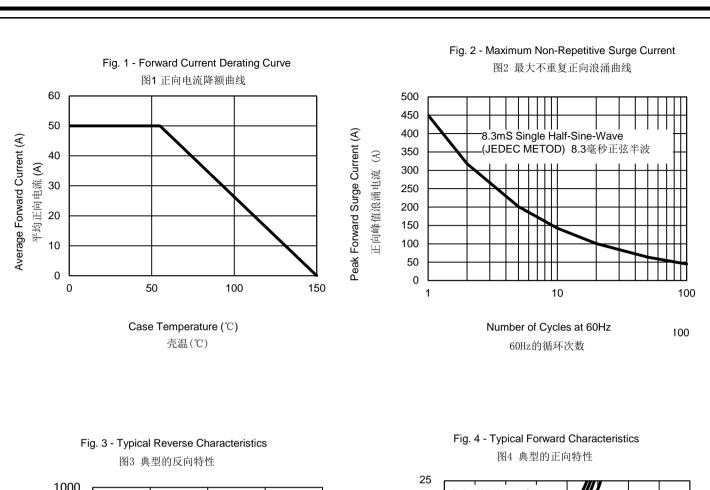
Maximum Ratings and Electrical Characteristics 最大额定值及电气特性

Rating at 25℃ ambient temperature unless otherwise specified. 环境温度25℃,除非特别说明。 Single phase, half wave, 60Hz, resistive or inductive load. 单相半波, 60Hz, 阻性或感性负载。 For capacitive load, derate current by 20%. 对于电容性负载,降低20%的额定电流。

Characteristics	Symbol	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	Unit
特性	符号	50005	5001	5002	5004	5006	5008	5010	单位
Maximum Repetitive Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	٧
最大重复峰值反向电压		30	100	200	400	000	000	1000	
Maximum RMS Voltage 最大有效反向电压	VRMS	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 ℃	I(AV)	50						А	
最大正向平均整流电流	I(AV)	30							
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,									
Superimposed on Rated Load (JEDEC Method)	IFSM 450								Α
8.3mS单一正弦半波叠加在额定负载上的浪涌能力(JEDEC方法)									
I ² t Rating for Fusing (t<8.3mS) 熔断额定值 (t<8.3mS)	l ² t	664						A ² s	
Peak Forward Voltage per Diode at 25A DC	VF	1.1						V	
单个二极管在25A电流下的正向峰值电压	VF	1.1							
Maximum DC Reverse Current at Rated @TJ=25℃	5							μA	
DC Blocking Voltage per Diode @T _J =125°C	IR 500								
单个二极管在额定直流电压下的最大反向直流电流				300					
Operating Junction Temperature Range 结温工作范围	TJ	-55 to +150						$^{\circ}$	
Storage Temperature Range 储存温度范围	Тѕтс	-55 to +150						$^{\circ}$	

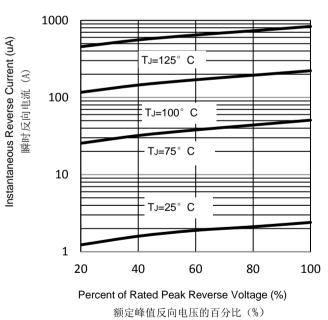
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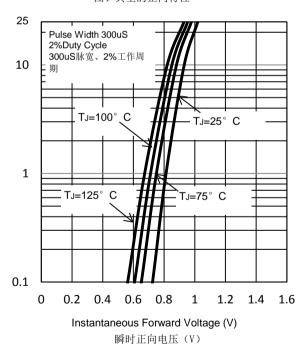




Instantaneous Forward Current (A)

瞬时正向电流 (A)





The curve above is for reference only. 曲线图仅供参考。

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