

GBJ6005 THRU GBJ610

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 - 6.0 Amperes 正向电流 6.0A

Features 特征

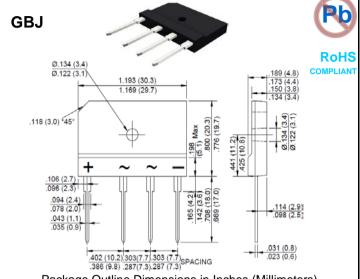
- Glass passivated chip 玻璃钝化芯片
- Low forward voltage drop 正向压降低
- Ideal for printed circuit board 适用于印刷电路板中
- High surge current capability 高的浪涌能力

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 SMPS, lighting ballaster, adapter, etc.
- 一般应用于交流/直流桥式全波整流,如:开关电源, 照明镇流器、适配器等。



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

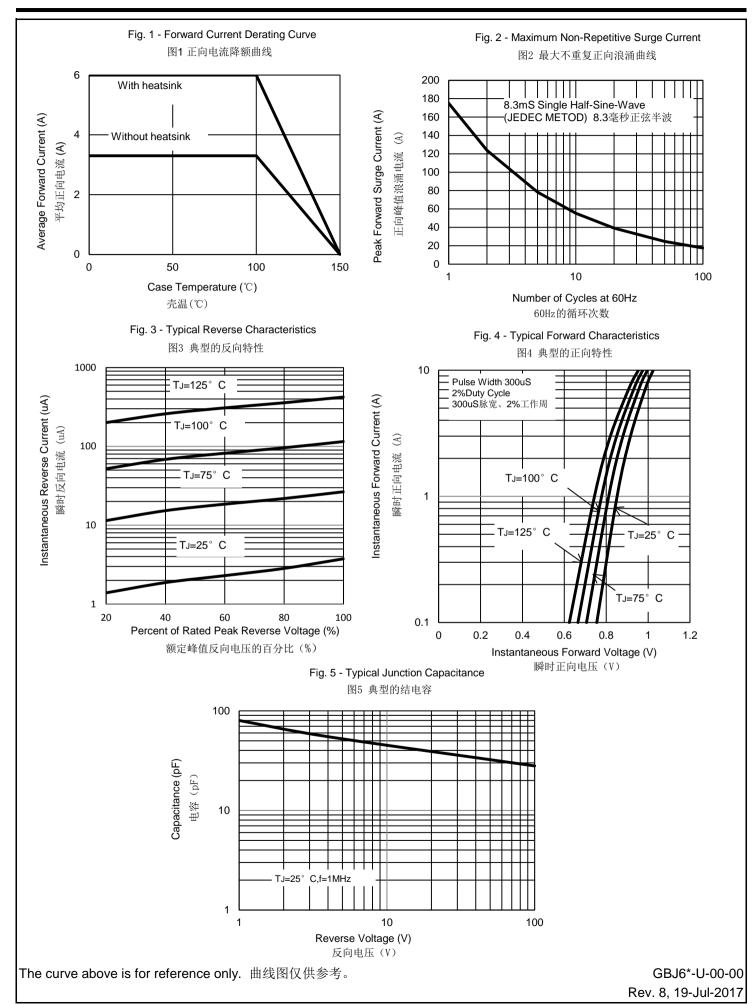
Rating at 25℃ ambient temperature unless otherwise specified. 环境温度25℃,除非特别说明。 Single phase, half wave, 60Hz, resistive or inductive load. 单相半波, 60Hz, 阻性或感性负载。 For capacitive load, derate current by 20%. 对于电容性负载,降低20%的额定电流。

Characteristics 特性	Symbol 符号	GBJ6005	GBJ601	GBJ602	GBJ604	GBJ606	GBJ608	GBJ610	Unit 单位
Maximum Repetitive Peak Reverse Voltage 最大重复峰值反向电压	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage 最大有效反向电压	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage 最大直流阻断电压	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (with heatsink Note 2) 最大正向平均整流电流 @ Tc=100℃ (without heatsink)	I(AV)	6.0 3.3							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method) 8.3mS单一正弦半波叠加在额定负载上的浪涌能力(JEDEC方法)	İFSM	175							А
I ² t Rating for Fusing (t<8.3mS) 熔断额定值 (t<8.3mS)	l ² t	127						A^2s	
Peak Forward Voltage per Diode at 3A DC 单个二极管在3A电流下的正向峰值电压	VF	1.0							V
Maximum DC Reverse Current at Rated @TJ=25℃ DC Blocking Voltage per Diode @TJ=125℃ 单个二极管在额定直流电压下的最大反向直流电流	lr	5.0 500							μΑ
Typical Junction Capacitance per Diode (Note1) 典型结电容(备注1)	CJ	55						pF	
Typical Thermal Resistance to case (with heatsink (Note2)) 结到壳的典型热阻值(带散热片,备注2)	Rejc	1.8						°C/W	
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							$^{\circ}\!$

- Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC. 在 1.0MHz 下和反向电压为 4.0V DC下测试。
 - 2.Device mounted on 75mm*75mm*1.6mm Cu plate heatsink. 安装在 75mm*75mm*1.6mm Cu 的散热片上。
 - 3.The typical data above is for reference only(典型值仅供参考).

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