

4GBJ10005 THRU 4GBJ1010

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 - 10.0 Amperes 正向电流 10.0A

Features 特征

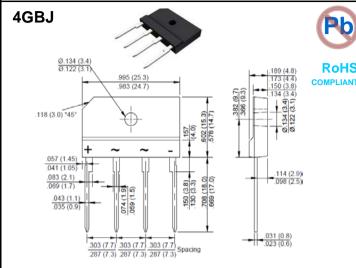
- Glass passivated chip 玻璃钝化芯片
- Low forward voltage drop 正向压降低
- Ideal for printed circuit board 适用于印刷电路板中
- High surge current capability 高的浪涌能力

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。

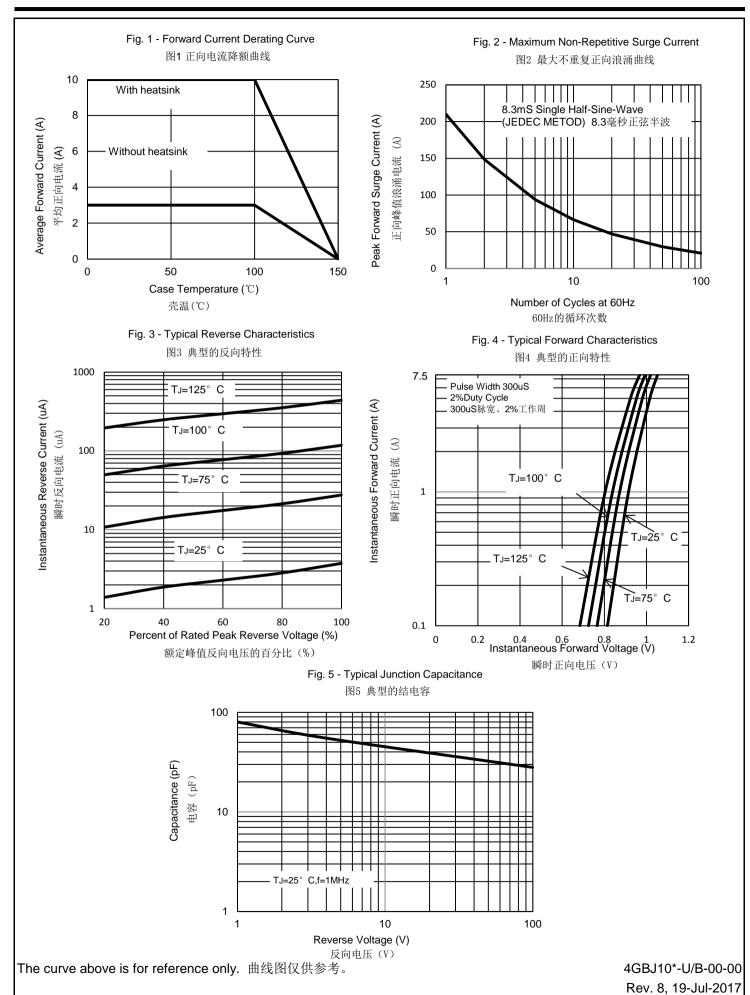
Characteristics 特性	Symbol 符号	4GBJ	4GBJ	4GBJ	4GBJ	4GBJ	4GBJ	4GBJ	Unit 单位
Maximum Repetitive Peak Reverse Voltage	171 2	10005	1001	1002	1004	1006	1008	1010	千匹
最大重复峰值反向电压	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage 最大有效反向电压	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage 最大直流阻断电压	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (with heatsink Note 2)	10.0								· ·
最大正向平均整流电流 @ Tc=100℃ (without heatsink)	I(AV)	3.0							Α
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave,									
Superimposed on Rated Load (JEDEC Method)	IFSM	IFSM 210							А
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	183							A ² s
Peak Forward Voltage per Diode at 5A DC	VF	4.0							V
单个二极管在5A电流下的正向峰值电压	VF 1.0							V	
Maximum DC Reverse Current at Rated @TJ=25℃		5.0 IR 500							μА
DC Blocking Voltage per Diode @TJ=125℃	lr								
单个二极管在额定直流电压下的最大反向直流电流									
Typical Junction Capacitance per Diode (Note1)	0.	55							
典型结电容(备注1)	CJ 55						pF		
Typical Thermal Resistance to Ambient (without heatsink)	RθJA	24							°C/W
结到环境的典型热阻值 (不带散热片)	Nega	Δ0/Λ							C/VV
Typical Thermal Resistance to case (with heatsink (Note2))	Rejc	1.4						°C/W	
结到壳的典型热阻值(带散热片,备注2)	Keac	ReJC 1.4							C/VV
Typical Thermal Resistance to lead (without heatsink)	Do.	Reul 3						°C ///	
结到引线的典型热阻值(不带散热片)	KθJL								°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	Tstg	-55 to +150							$^{\circ}$
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D	C 在 1 0N	/Hz 下和 l	反向由压头	5 4 OV DO	下测试				

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 150mm*150mm*1.6mm Cu plate heatsink. 安装在 150mm*150mm*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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