

特 点

高电流玻璃钝单相桥式整流器

FEATURES

HIGH CURRENT GLASS PASSIVATED SINGLE PHASE BRIDGE RECTIFIER

The plastic package has Underwriters Laboratory
flammability recognition 94V-0

外壳已经 UL 可燃性认证 94V_0

Integrally molded heatsink provide very low thermal
resistance for maximum heat dissipation

铝散热片，热阻抗低，散热量大

Universal 3_way terminals; snap_on, wire wrap
_around, or P.C. Board mounting

通用 3_路端子；搭锁，引线缠绕或 PC 板安装

Surge overload ratings to 400 Amperes

浪涌过载额定值达 400 安培

Glass passivated chip junctions

玻璃钝芯片结

High temperature soldering guaranteed:

260°C/10 seconds at 5lbs., (2.3kg) tension

高温焊接保证：300°C/10 秒，拉力，2.3kg。

机械数据

MECHANICAL DATA

Terminals: Nickel plated .25 " (1.0mm) Faston lugs

端子：镀镍 0.25 " (1.0mm) 接线端子

Mounting position: Bolt down on heat_sink with

Silicone thermal compound between bridge and

Mounting surface for maximum heat transfer

efficiency. with number 5 screw

安装位置：用 M5 螺丝固定在散热片上，桥和安

装表面之间填充硅热混合物以达到最佳的散热

效果

polarity: polarity symbols molded on body

极性：极性符号铸在管体上

Weight: 12.2grams

重量：12.2 克

最大额定值 Absolute MAX rating

Item 项 目	Symbol 符 号	Conditions 条 件	Ratings 额定值	Unit 单 位
Storage temperature 贮存温度	Tstg		-40~150	℃
Operating junction Temperature 结 温	T _J		150	℃
Max reverse voltage 最大反向电压	V _{RM}			
GBPC5002-W			200	V
GBPC5004-W			400	V
GBPC5006-W			600	V
GBPC5008-W			800	V
GBPC5010-W			1000	V
Average rectified forward current 平均正向整流电流	I _o	50Hz Sine wave resistance load T _c =85℃ 50Hz 正弦波电阻负载	50	A
Peak Surge forward Current 浪涌电流	I _{FSM}	Non-repetitive 50Hz 10ms Sine wave T _j =25℃ 不重复 50Hz 10ms 正弦波	400	A
Dielectric strength 绝缘强度	V _{dia}	Terminals to case AC 1 minute 端子与管壳间 AC 1 分钟	2	KV

电性特征 Electrical characteristics TA=25℃

Forward Voltage 正向电压	V _F	I _F =25A	Max 1.05	V
Reverse current 反向漏电流	I _R	V _R =V _{RM}	Max 10	μ A
Thermal reslstance 热 阻	Q _{JC}	Junction to Case 结点管壳间	Max 1.5	℃/W

特性曲线RATONG and characteristic

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBPC50005-GBPC5010	A1	Approximate 13.8	50	50	500	Paper Box

■ Characteristics (Typical)

FIG1:Io-Tc Curve

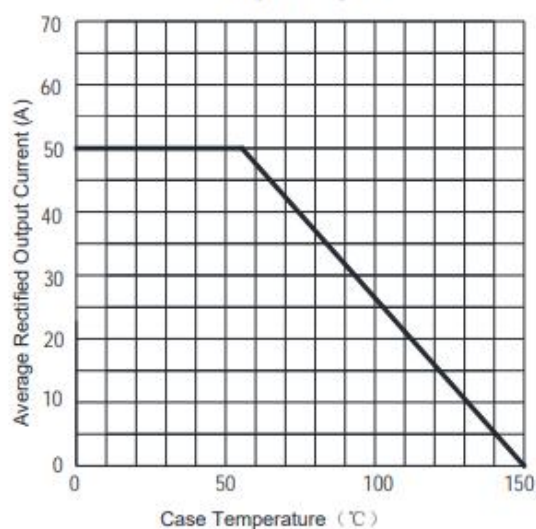


FIG2:Surge Forward Current Capability

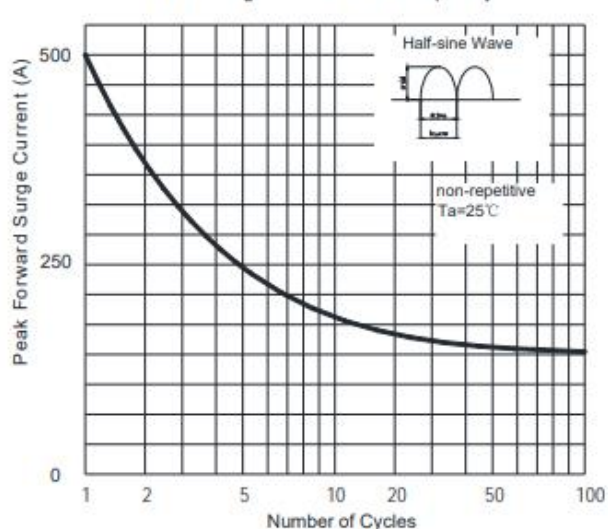


FIG3:Instantaneous Forward Voltage

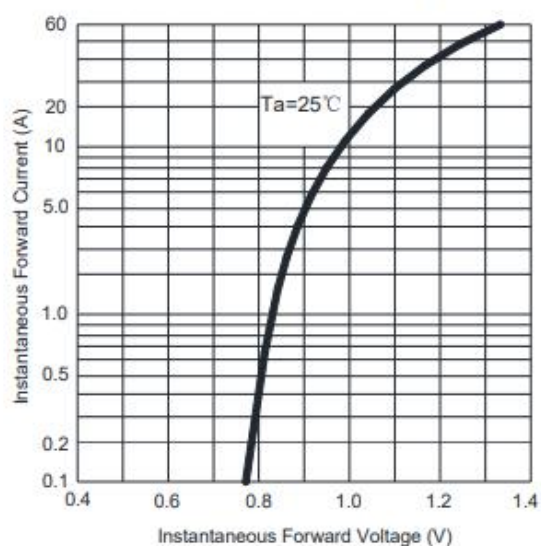
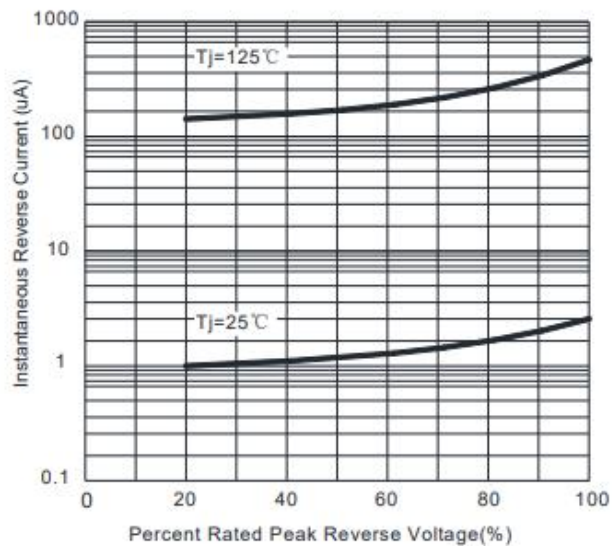
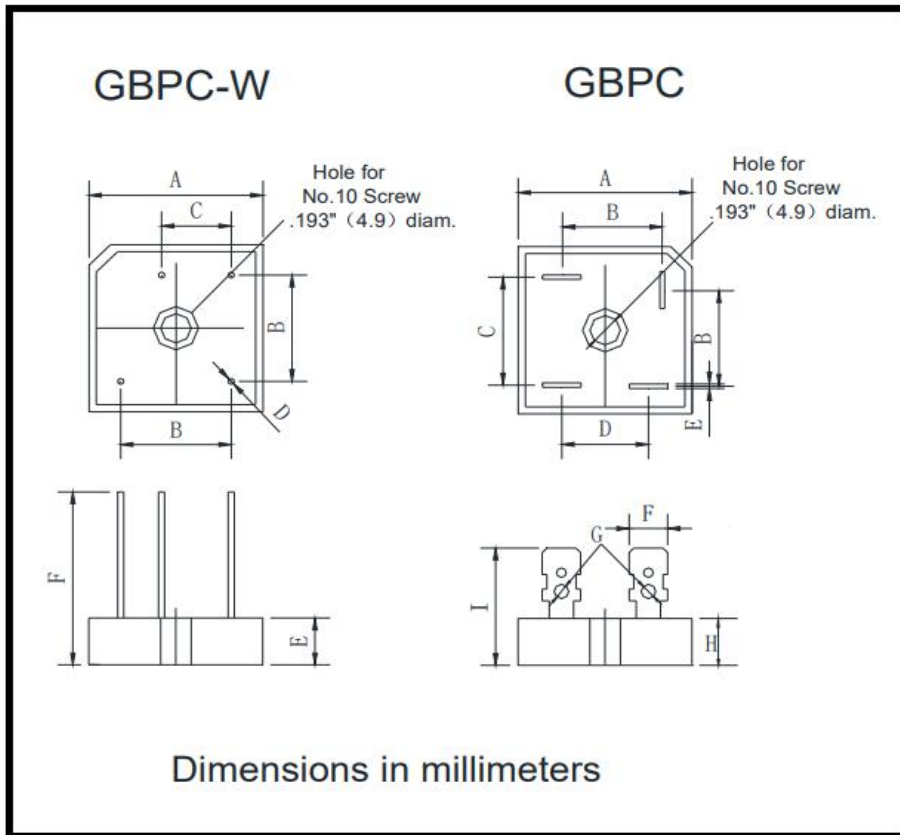


FIG4:Typical Reverse Characteristics



外型尺寸



GBPC-W		
Dim	Min	Max
A	28.2	28.8
B	17.1	19.1
C	10.4	12.4
D	0.95	1.05
E	7.6	8.2
F	30	

GBPC		
Dim	Min	Max
A	28.2	28.8
B	15.3	17.3
C	17.1	19.1
D	13.2	15.2
E	0.75	0.85
F	6.2	6.4
G	2.2	2.6
H	7.6	8.2
I	19	22

