

## 单相硅整流桥堆

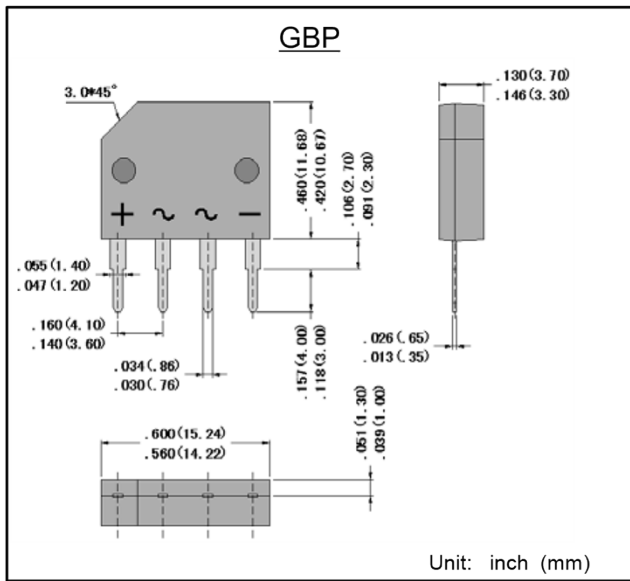
反向电压 50 ~ 1000 V

正向电流 4.0 A

## Single phase Silicon Bridge Rectifiers

Reverse Voltage 50 ~ 1000 V

Forward Current 4.0 A



### 特征 Features

- 反向漏电流低 Low reverse leakage
- 正向浪涌承受能力强 High forward surge capability
- 高信赖性 High reliability
- 玻璃钝化芯片 Glass passivated chip
- 引线 and 管体皆符合RoHS标准  
Lead and body according with RoHS standard
- 型号后缀“-F”标记无卤素产品  
Green compound with suffix "-F" on Marking

### 机械数据 Mechanical Data

- 封装外形: GBP 塑封 Case: GBP Molded plastic
- 环氧树脂: UL 易燃等级: 94V-0  
Epoxy: UL 94V-0 rate flame retardant
- 引脚: 镀锡, 无铅 Lead: Pure tin plated, lead free
- 安装位置: 任意 Mounting Position: Any
- 安装扭矩: 推荐值 0.3牛\*米 Mounting torque: Recommend 0.3 N\*m

### 极限值和温度特性 TA = 25°C 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	GBP 401G	GBP 402G	GBP 403G	GBP 404G	GBP 405G	GBP 406G	GBP 407G	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
最大均方根电压 Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	4.0							A
正向不重复浪涌电流 8.3 ms 单一正弦半波 Non-repetitive peak forward surge current 8.3 ms single half sine-wave	$I_{FSM}$	120							A
熔断系数 $t \leq 8.3$ ms Current squared time $t \leq 8.3$ ms	$I^2t$	60							A <sup>2</sup> S
典型热阻 Typical thermal resistance (Note 1, 2)	$R_{\theta JC}$	6							°C/W
	$R_{\theta JA}$	22							
工作结温和存储温度 Operating junction and storage temperature range	$T_j, T_{STG}$	-55 --- +150							°C

备注 Note:

- 1) 安装在覆铜面积5.0毫米\*5.0毫米的PCB板上, 从PN结到管体的热阻。  
1) Thermal resistance from junction to case, PCB mounted with 5.0mm\*5.0mm Copper Pad Areas.
- 2) 安装在覆铜面积5.0毫米\*5.0毫米的PCB板上, 从PN结到环境的热阻。  
2) Thermal resistance from junction to ambient, PCB mounted with 5.0mm\*5.0mm Copper Pad Areas.

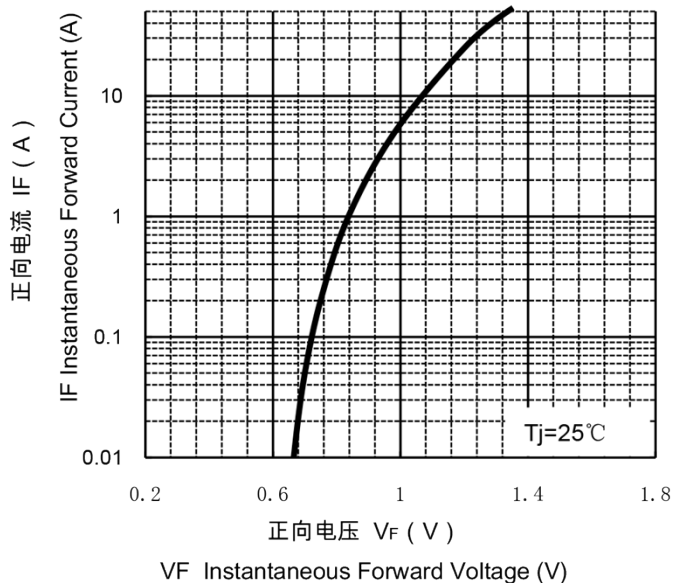
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参数 Parameter	符号 Symbols	GBP 401G	GBP 402G	GBP 403G	GBP 404G	GBP 405G	GBP 406G	GBP 407G	单位 Unit
最大正向电压 @IF=4.0A Maximum forward voltage	$V_F$	1.1							V
最大反向电流 @V <sub>DC</sub> TA= 25°C Maximum reverse current	$I_R$	5							μA

## 特性曲线 Characteristic Curves

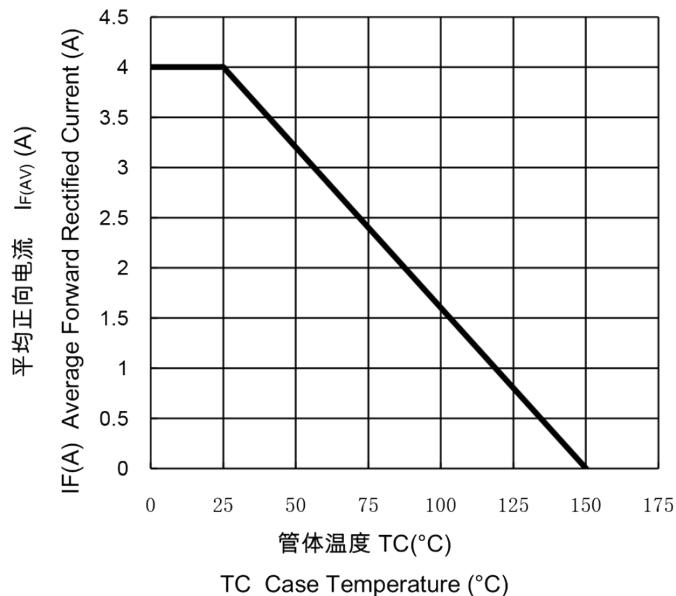
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



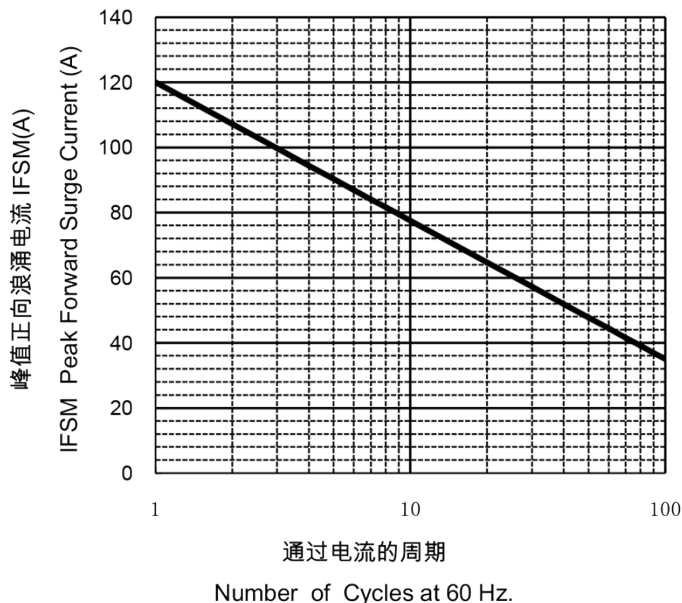
正向电流降额曲线

FORWARD CURRENT DERATING CURVE



浪涌特性曲线 (最大值)

MAXIMUM NON REPETITIVE  
PEAK FORWARD SURGE CURRENT



反向特性曲线

TYPICAL REVERSE CHARACTERISTICS

