



GBL401-GBL410

单向硅整流桥堆

反向电压 50 ~ 1000 V

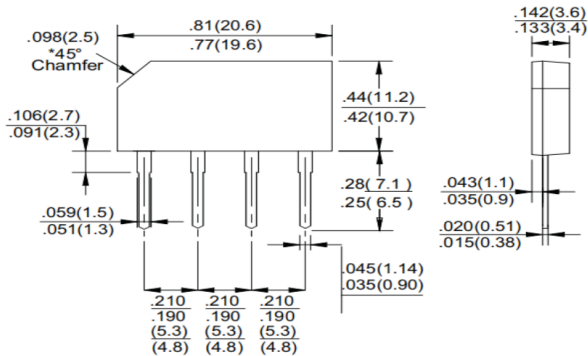
正向电流 4.0 A

Single-phase Silicon Bridge Rectifiers

Reverse Voltage 50 ~ 1000 V

Forward Current 4.0 A

GBL



Dimensions in inches and (millimeters)

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

机械数据 Mechanical Data

- 封装外形: GBL 塑封 Case: GBL 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

最大值和特性 TA = 25°C 除非另有规定。

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

参数 Parameter	符号 Symbols	GBL 401	GBL 402	GBL 403	GBL 404	GBL 405	GBL 406	GBL 410	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 singlehalf sine-wave	I _{FSM}	120							A
熔断系数 t≤ 8.3 ms Current squared time t≤ 8.3 ms	I ² t	60							A ² S
最大正向电压 @IF=2.0A Maximum forward voltage	V _F	1.1							V
最大反向电流 @V _{DC} TA = 25℃ Maximum reverse current	I _R	5							μA
典型热阻 Typical thermal resistance (Note 1、2)	R _{θJA}	47							℃/W
	R _{θJL}	10							
工作结温和存储温度 Operating junction and storage temperature range	T _J , T _{STG}	-55 --- +150							℃

备注 Note:

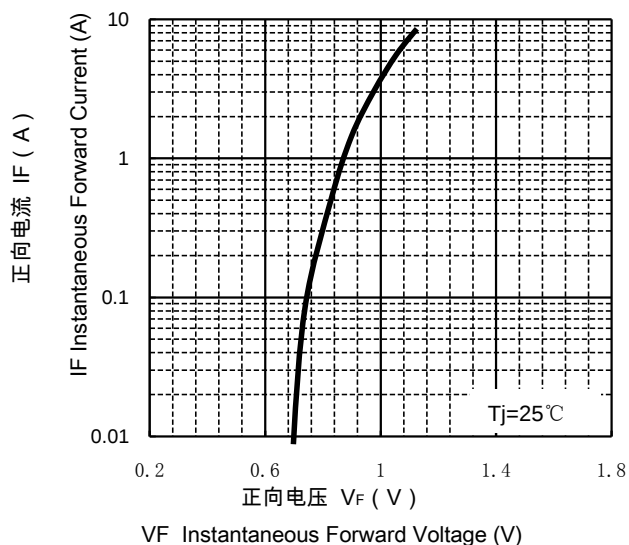
- 1) 安装在PCB板上, 从PN结到环境的热阻。
1) Thermal resistance from junction to ambient, PCB mounted.
- 2) 安装在PCB板上, 从PN结到引脚的热阻。
2) Thermal resistance from junction to lead, PCB mounted.



特性曲线 Characteristic Curves

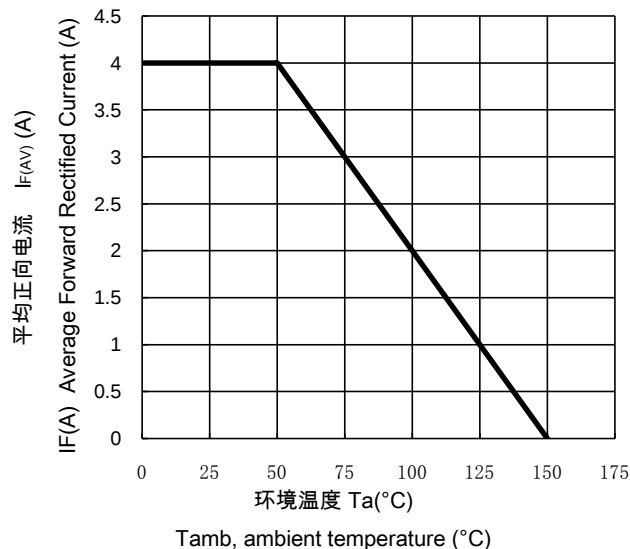
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



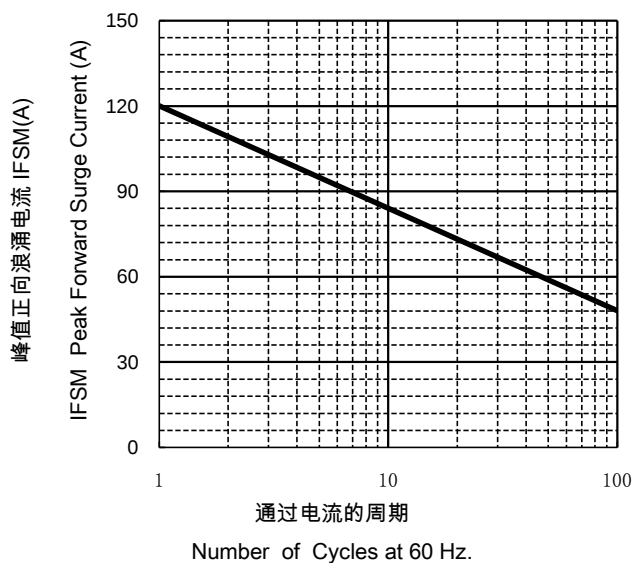
正向电流降额曲线

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

