

单向硅整流桥堆

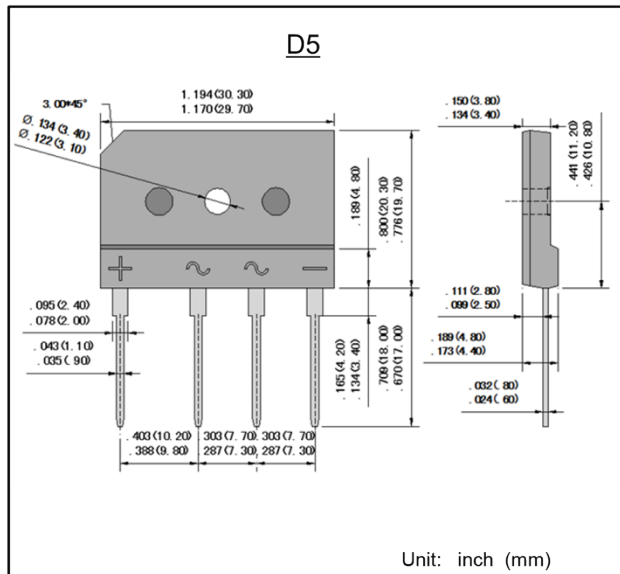
反向电压 600 V

正向电流 25 A

Single Phase Silicon Bridge Rectifiers

Reverse Voltage 600 V

Forward Current 25 A



特征 Features

- 反向漏电流低 Low reverse leakage
- 正向压降低 Low forward voltage
- 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:D5 塑封 Case:D5 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 0.5牛*米 Mounting torque: Recommend 0.5 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	D25SB60L	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V_{RRM}	600	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	420	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	600	V
最大正向平均整流电流 Maximum average forward rectified current	$I_{F(AV)}$	25	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}	450	A
引线和管壳间绝缘强度 Dielectric strength Terminals to case	V_{dis}	2500	V
熔断系数 $t \leq 8.3$ ms Current squared time $t \leq 8.3$ ms	I^2t	508	A ² S
典型热阻 Typical thermal resistance (Note 1、2)	$R_{\theta JA}$	22	°C/W
	$R_{\theta JC}$	1	
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PCB板上, 从PN结到周围环境的热阻。
1) Thermal resistance from junction to ambient, PCB mounted.
- 2) 安装在PCB板上, 从PN结到管体的热阻。
2) Thermal resistance from junction to case, PCB mounted.

电特性 TA = 25°C 除非另有规定。

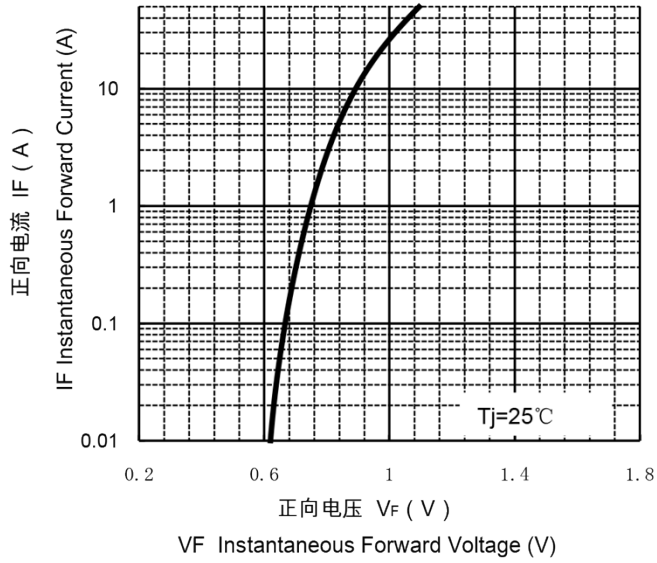
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	D25SB60L	单位 Unit
最大正向电压 @IF=12.5A Maximum forward voltage	V_F	0.95	V
最大反向电流 @V _{DC} TA= 25°C Maximum reverse current	I_R	5	μA

特性曲线 Characteristic Curves

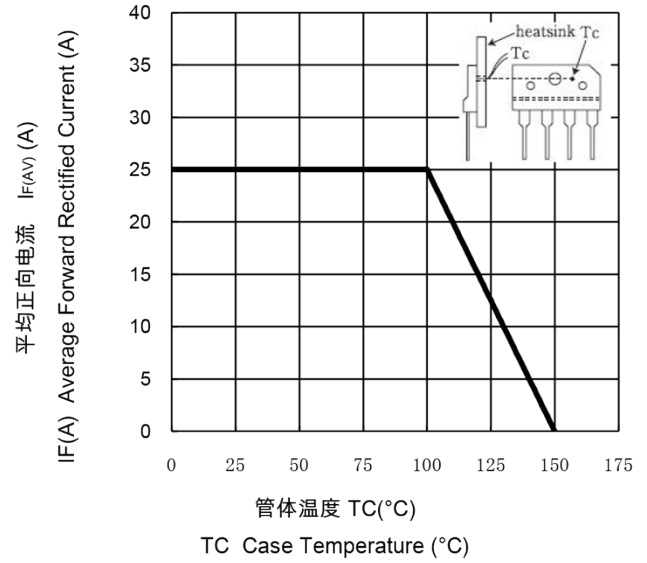
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



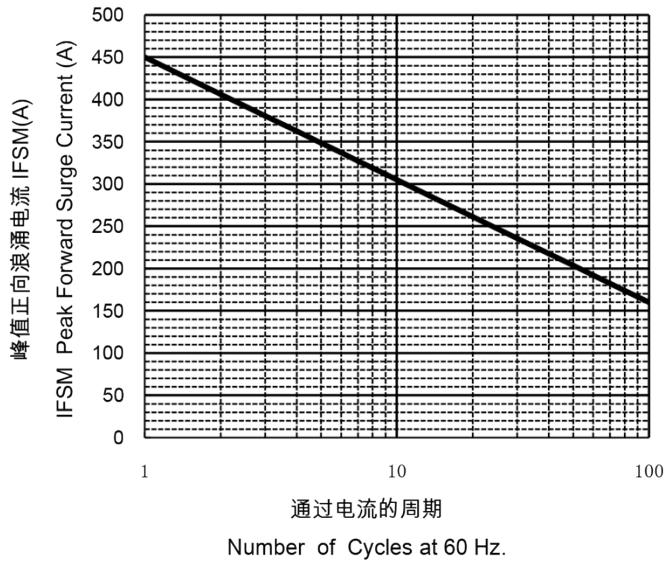
正向电流降额曲线

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

