

单向硅整流桥堆

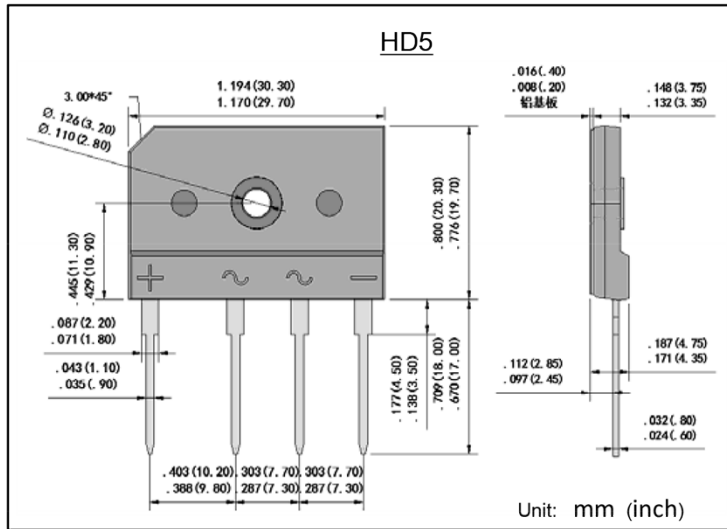
反向电压 600 ~ 1000 V

正向电流 35 A

Single Phase Silicon Bridge Rectifiers

Reverse Voltage 600 ~ 1000 V

Forward Current 35 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:HD5 塑封 Case:HD5 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 N·m Mounting torque: Recommend 0.5 N·m

最大值和温度特性 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	HD35SB60	HD35SB80	HD35SB100	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage			V _{RRM}	600	800	1000	V
最大均方根电压 Maximum RMS voltage			V _{RMS}	420	560	700	V
最大直流阻断电压 Maximum DC blocking voltage			V _{DC}	600	800	1000	V
平均整流电流 Average forward rectified current	60Hz正弦波负载 60Hz sine wave load	带散热片,TC=100℃ with heatsink, TC=100℃	I _{F(AV)}	35			A
		无散热片Ta=25℃ without heatsink, Ta =25℃		3.5			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}	400			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≤ 8.3 ms Current squared time t≤ 8.3 ms			I ² t	530			A ² S
典型热阻 Typical thermal resistance			R _{θJA} (Note 1)	22			℃/W
			R _{θJC} (Note 2)	1.0			
工作结温 Operating junction temperature			T _J	150			℃
存储温度 Storage temperature range			T _{STG}	-55 --- +150			℃

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100mm*100mm*1.6mm铝板散热器上, 从PN结到管体的热阻。
2) Thermal resistance from junction to case, installed on 100mm*100mm*1.6mm aluminum radiator.

电特性 TA = 25°C 除非另有规定。

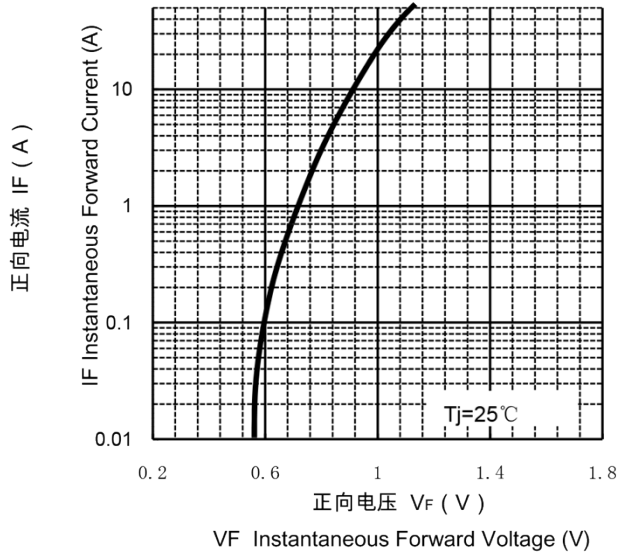
Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

参数 Parameter	符号 Symbols	HD35SB60	HD35SB80	HD35SB100	单位 Unit
最大正向电压 @IF=17.5A Maximum forward voltage	V_F	1.10			V
最大反向电流 @V _{DC} TA= 25°C Maximum reverse current	I_R	10			μA

特性曲线 Characteristic Curves

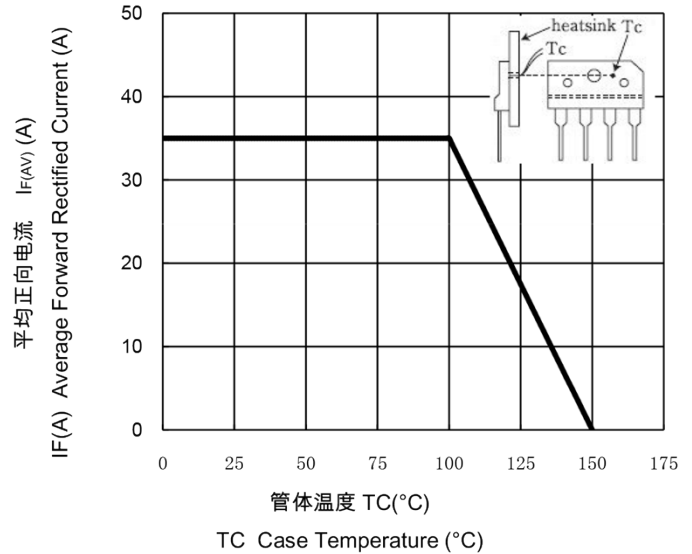
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



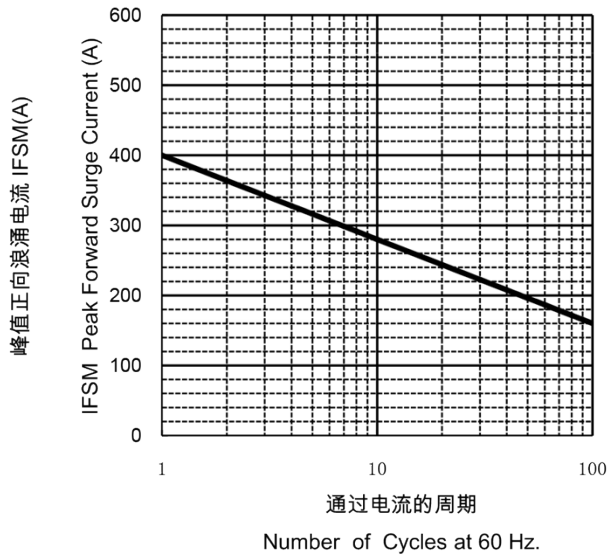
正向电流降额曲线

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

