



D3SB05-D3SB80

单向硅整流桥堆

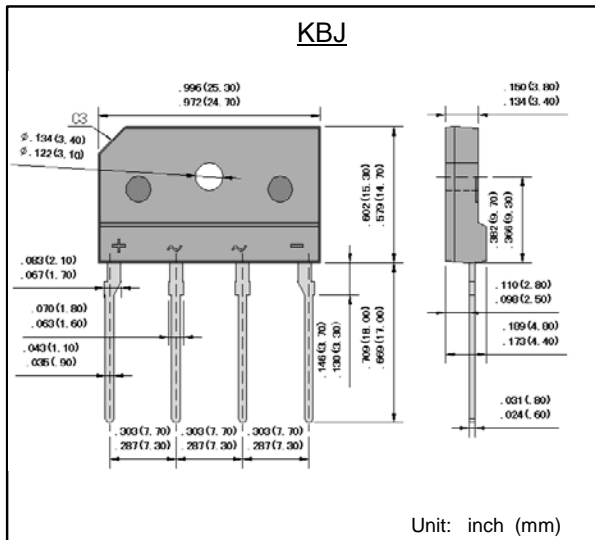
反向电压 50 ~ 800 V

正向电流 4.0 A

Single phase Silicon Bridge Rectifiers

Reverse Voltage 50 ~ 800 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:KBJ 塑封 Case:KBJ 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	D3S B05	D3S B10	D3S B20	D3S B40	D3S B60	D3S B80	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	V
最大均方根电压 Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	V
最大直流阻断电压 Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	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 8.3ms单一正弦半波 Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I_{FSM}	120						A
引线和管壳间绝缘强度 Dielectric strength Terminals to case	V_{dis}	2500						V
熔断系数 ≤ 10 ms Current squared time ≤ 10 ms	I^2t	72						A ² S
最大正向电压 @ $I_F=2.0A$ Maximum forward voltage	V_F	1.05						V
最大反向电流 @ V_{DC} TA= 25°C Maximum reverse current	I_R	5						μA
典型热阻 Typical thermal resistance (Note 1)	$R_{\theta JC}$	5.5						°C/W
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:

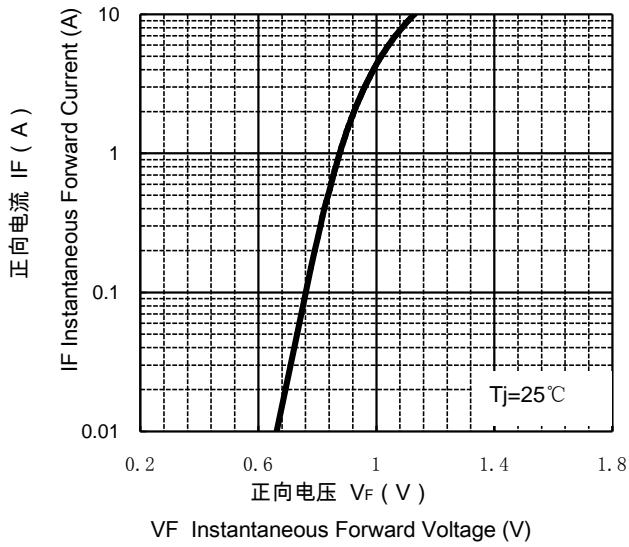
- 1) 安装在PCB板上，从PN结到管体的热阻。
- 1) Thermal resistance from junction to case , PCB mounted.



特性曲线 Characteristic Curves

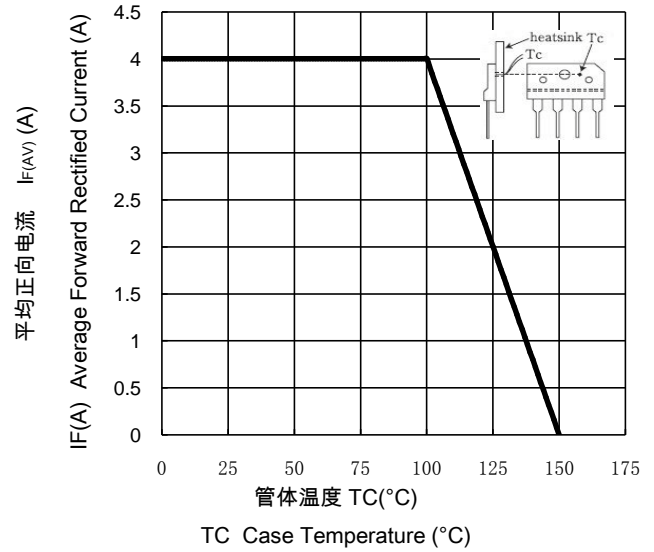
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



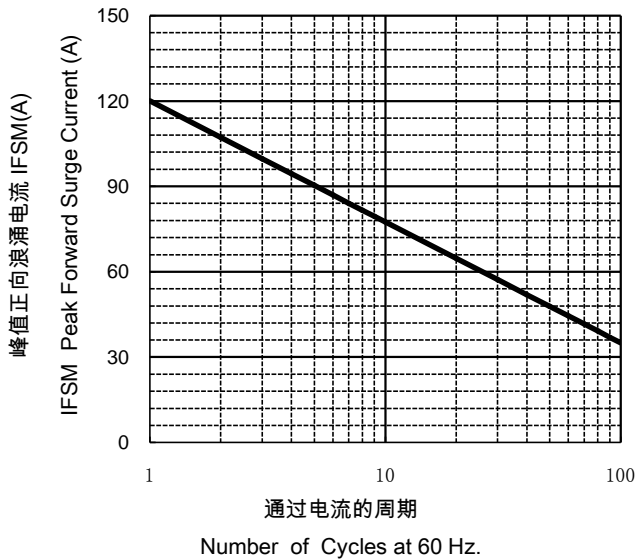
正向电流降额曲线

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

