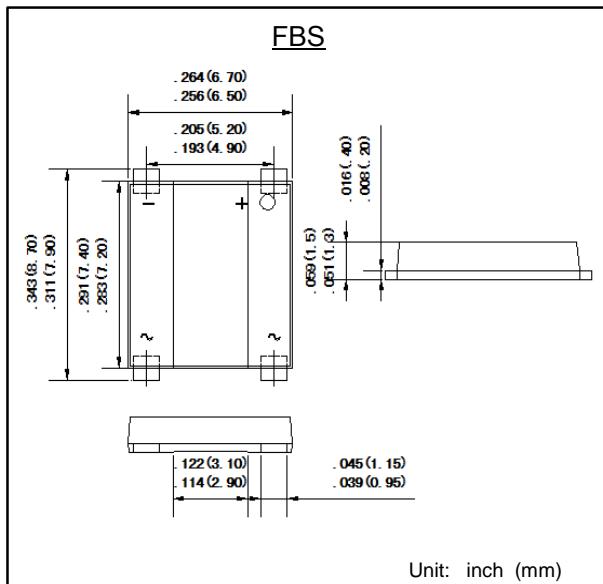




表面安装高效率整流二极管
反向电压 50~1000 V
正向电流 2.5 A

Surface Mounted High-efficiency Rectifiers
Reverse Voltage 50~1000V
Forward Current 2.5 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
- 高温焊接保证 High temperature soldering guaranteed:
260°C/10 秒
260°C/10seconds
- 引线和管体皆符合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:FBS 塑封 Case:FBS 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

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	FBS 251	FBS 252	FBS 253	FBS 254	FBS 255	FBS 256	FBS 257	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)}				2.5				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}				75				A
典型热阻 Typical thermal resistance (Note 1)	R _{θJA}				55				°C/W
工作结温 Junction temperature	T _j				150				°C
存储温度 Storage temperature range	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结到周围环境的热阻。
- 1) Thermal resistance from junction to ambient, PCB mounted with 5.0mm*5.0mm Copper Pad Areas.

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	FBS 251	FBS 252	FBS 253	FBS 254	FBS 255	FBS 256	FBS 257	单位 Unit
最大正向电压 @IF=1.25A Maximum forward voltage	V _F				1.05				V
最大正向电压 @IF=2.5A Maximum forward voltage	V _F				1.10				V
最大反向电流 @V _{DC} TA= 25°C Maximum reverse current	I _R				5				μA



特性曲线 Characteristic Curves

