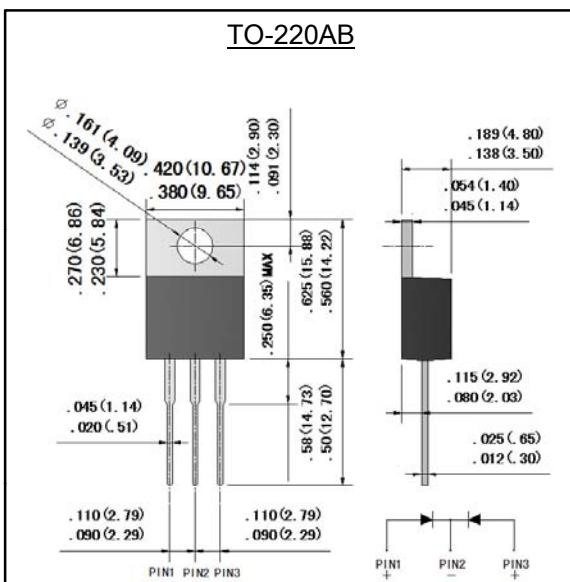




肖特基二极管  
反向电压 100 V  
正向电流 40 A

Schottky Barrier Rectifiers  
Reverse Voltage 100 V  
Forward Current 40 A



### 特征 Features

- 沟槽工艺 Trench schottky technology
- 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
- 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: TO-220AB 塑封 Case: TO-220AB 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
- 安装扭距: 推荐值 0.3牛\*米 Mounting torque : Recommend 0.3 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	TBR40100CT	单位 Unit
最大可重复峰值反向电压 Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	100	V
最大均方根电压 Maximum RMS voltage	V <sub>RMS</sub>	70	V
最大直流阻断电压 Maximum DC blocking voltage	V <sub>DC</sub>	100	V
最大正向平均整流电流 Maximum average forward rectified current	I <sub>F(AV)</sub>	40.0	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 <sub>FSM</sub>	250	A
典型热阻 Typical thermal resistance (Note 1)	R <sub>θJC</sub>	2	°C/W
工作结温 Operating junction temperature	T <sub>j</sub>	150	°C
存储温度 Storage temperature range	T <sub>STG</sub>	-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.

**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	TBR40100CT	单位 Unit
最大正向电压 @IF=3.0A Maximum forward voltage	V <sub>F</sub>	0.48	V
最大正向电压 @IF=20.0A Maximum forward voltage	V <sub>F</sub>	0.70	V
最大反向电流 @V <sub>DC</sub> TA= 25°C Maximum reverse current	I <sub>R</sub>	50	uA



## 特性曲线 Characteristic Curves

