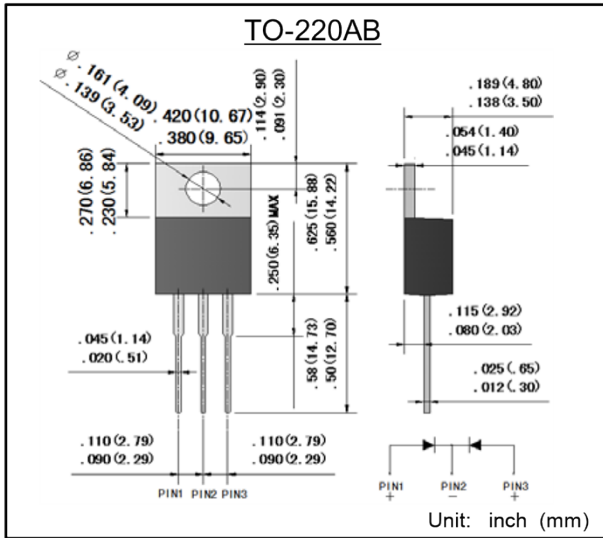


肖特基二极管  
反向电压 40 ~ 200 V  
正向电流 10 A

Schottky Barrier Rectifiers  
Reverse Voltage 40 ~ 200 V  
Forward Current 10 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
- 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: 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
- 安装扭矩: 推荐值 0.3牛\*米 Mounting torque: Recommend 0.3 N\*m

## 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<br>Parameter   | 符号<br>Symbols   | MBR<br>1040CT | MBR<br>1045CT | MBR<br>1050CT | MBR<br>1060CT | MBR<br>1080CT | MBR<br>10100CT | MBR<br>10150CT | MBR<br>10200CT | 单位<br>Unit |
|---|-----------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage  | $V_{RRM}$       | 40            | 45            | 50            | 60            | 80            | 100            | 150            | 200            | V          |
| 最大均方根电压 Maximum RMS voltage   | $V_{RMS}$       | 28            | 31.5          | 35            | 42            | 56            | 70             | 105            | 140            | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage   | $V_{DC}$        | 40            | 45            | 50            | 60            | 80            | 100            | 150            | 200            | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current   | $I_{F(AV)}$     | 10.0          |               |               |               |               |                |                |                | A          |
| 正向不重复浪涌电流 8.3 ms单一正弦半波<br>Non-repetitive peak forward surge current<br>8.3 ms single half sine-wave | $I_{FSM}$       | 125           |               |               |               |               |                |                |                | A          |
| 最大正向电压 @ $I_F=5.0A$<br>Maximum forward voltage  | $V_F$           | 0.70          | 0.80          | 0.85          | 0.95          | 0.99          |                |                |                | V          |
| 最大反向电流 @ $V_{DC}$<br>Maximum reverse current  | $I_R$           | 100           |               |               |               | 50            |                |                |                | uA         |
| 典型热阻 Typical thermal resistance (Note 1)  | $R_{\theta JC}$ | 2             |               |               |               |               |                |                |                | °C/W       |
| 工作结温和存储温度<br>Operating junction and storage temperature rang  | $T_j, T_{STG}$  | -55 --- +150  |               |               |               |               |                |                |                | °C         |

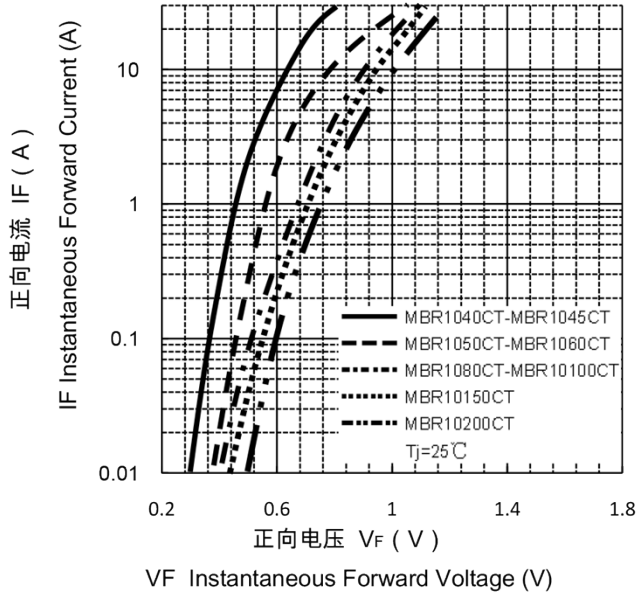
备注 Note:

- 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

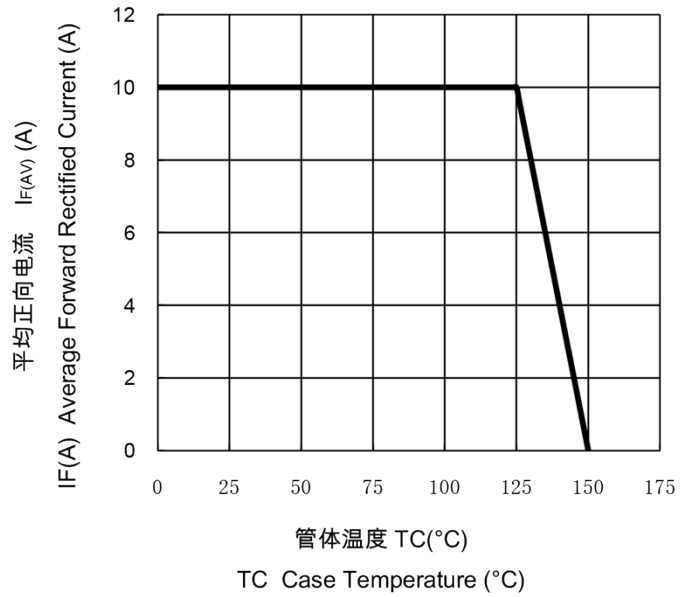
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



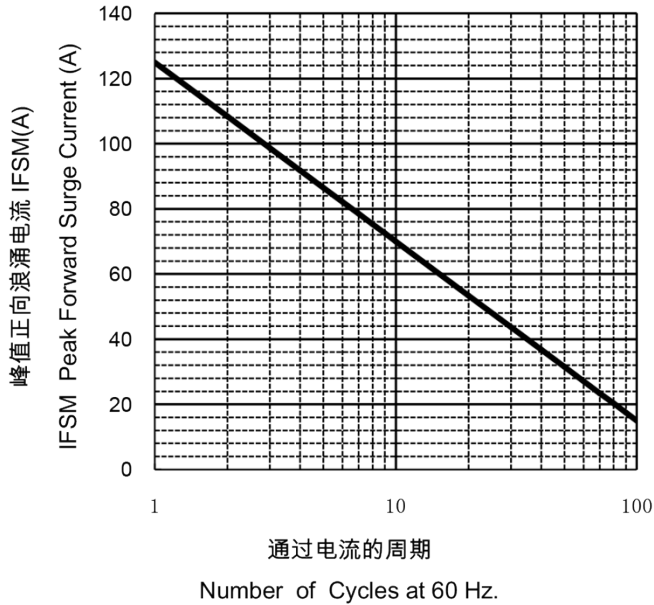
正向电流降额曲线

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

