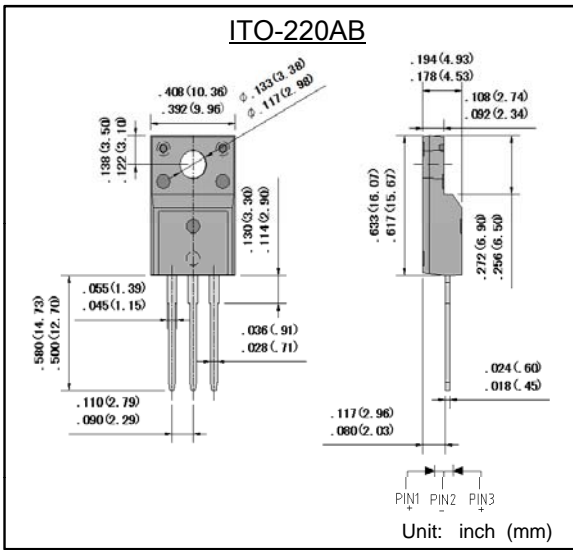




肖特基二极管  
反向电压 80 V  
正向电流 10 A

Schottky Barrier Rectifiers  
Reverse Voltage 80 V  
Forward Current 10 A



## 特征 Features

- 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 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: ITO-220AB 塑封 Case: ITO-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

## 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<br>Parameter  | 符号<br>Symbols   | MBRF1080CTL  | 单位<br>Unit |
|--|-----------------|--------------|------------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage   | $V_{RRM}$       | 80           | V          |
| 最大均方根电压 Maximum RMS voltage  | $V_{RMS}$       | 56           | V          |
| 最大直流阻断电压<br>Maximum DC blocking voltage  | $V_{DC}$        | 80           | V          |
| 最大正向平均整流电流<br>Maximum average forward rectified current  | $I_{F(AV)}$     | 10           | 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 singlehalf sine-wave | $I_{FSM}$       | 125          | A          |
| 典型热阻 Typical thermal resistance (Note 1)   | $R_{\theta JC}$ | 4            | °C/W       |
| 最高工作结温<br>Maximum operating junction temperature   | $T_J$           | 150          | °C         |
| 存储温度<br>Storage temperature range  | $T_{STG}$       | -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.

## 电特性 TA = 25°C 除非另有规定。

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

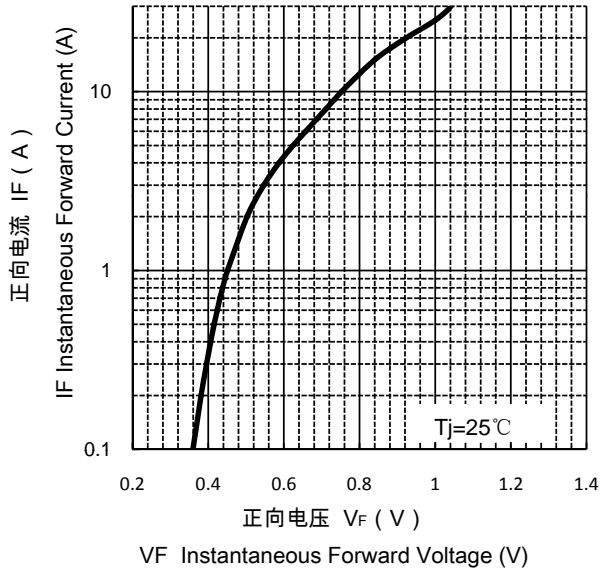
| 参数<br>Parameter   | 符号<br>Symbols | MBRF1080CTL | 单位<br>Unit |
|---|---------------|-------------|------------|
| 最大正向电压 @IF=5.0A<br>Maximum forward voltage                  | $V_F$         | 0.75        | V          |
| 最大反向电流 @V <sub>DC</sub> TA= 25°C<br>Maximum reverse current | $I_R$         | 1.0         | mA         |



## 特性曲线 Characteristic Curves

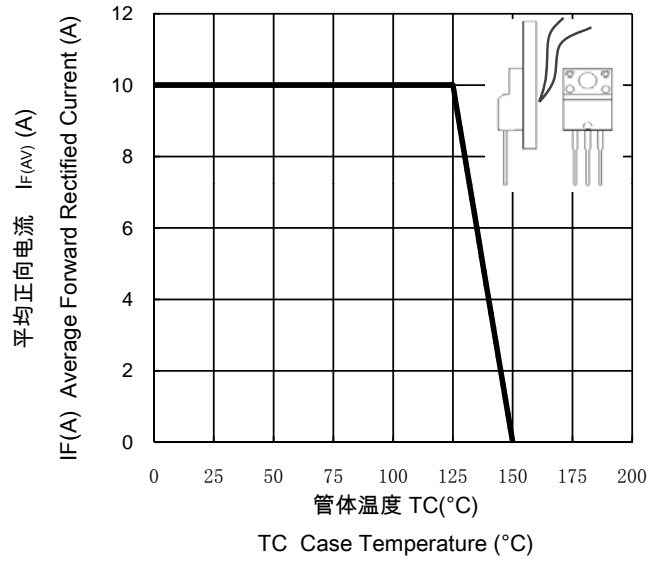
正向特性曲线 (典型值)

TYPICAL FORWARD CHARACTERISTIC



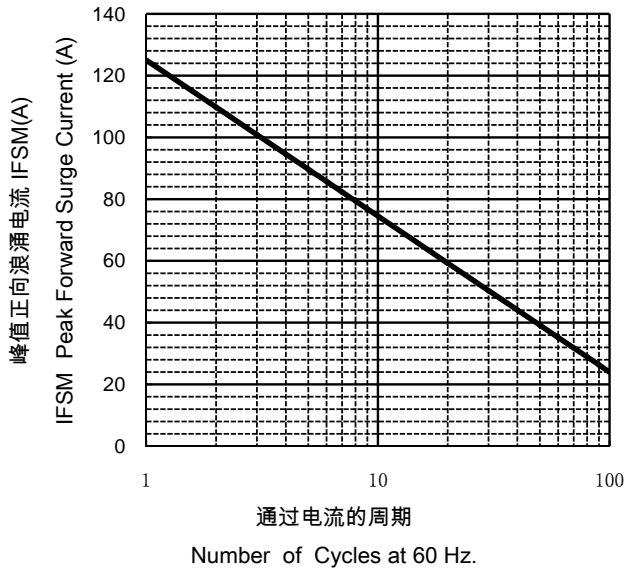
正向电流降额曲线

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

