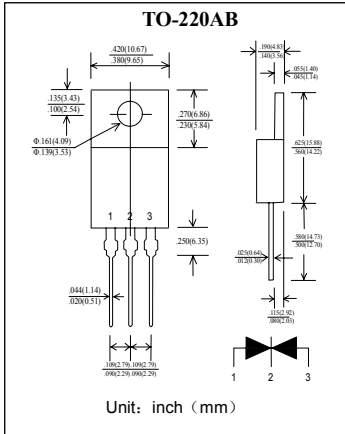


肖特基二极管
反向电压 30---100V
正向电流(单管)5.0 A

Schottky Barrier Rectifier
Reverse Voltage 30 to 100 V
Forward Current(Single) 5.0 A



特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 低功耗高效率。Low Power Loss, High Efficiency

机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded Plastic
- 极性: 标记模压或印于本体 Polarity: Symbols molded or marked on body
- 安装位置: 任意 Mounting Position: Any
- 重量: 2.24 克 Weight: 2.24 Grams

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.

| | 符号 Symbols | MBR 1030CT | MBR 1035CT | MBR 1040CT | MBR 1045CT | MBR 1050CT | MBR 1060CT | MBR 1080CT | MBR 10100CT | 单位 Unit |
|---|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|------------|
| 最大可重复峰值反向电压 Maximum repetitive peak reverse voltage | V_{RRM} | 30 | 35 | 40 | 45 | 50 | 60 | 80 | 100 | V |
| 最大均方根电压 Maximum RMS voltage | V_{RMS} | 21 | 24.5 | 28 | 31.5 | 35 | 42 | 56 | 70 | V |
| 最大直流阻断电压 Maximum DC blocking voltage | V_{DC} | 30 | 35 | 40 | 45 | 50 | 60 | 80 | 100 | V |
| 最大正向平均整流电流 Maximum average forward rectified current | $I_{F(AV)}$ | 10.0 | | | | | | | | A |
| 峰值正向浪涌电流 8.3ms单一正弦半波 Peak forward surge current 8.3 ms single half sine-wave | I_{FSM} | 125 | | | | | | | | A |
| 最大反向峰值电流 @TA = 75°C Maximum peak reverse current full cycle | $I_{R(AV)}$ | 5 | | | | | | | | mA |
| 典型热阻 Typical thermal resistance | $R_{\theta JA}$ | 30 | | | | | | | | K/W |
| 工作结温和存储温度 Operating junction and storage temperature range | T_j, T_{STG} | -50 --- +150 | | | | | | | | °C |

电特性 TA = 25°C 除非另有规定。

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

| | 符号 Symbols | MBR 1030CT | MBR 1035CT | MBR 1040CT | MBR 1045CT | MBR 1050CT | MBR 1060CT | MBR 1080CT | MBR 10100CT | 单位 Unit | |
|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|------------|----|
| 最大正向电压 $I_F = 10A T_C = 25^\circ C$ Maximum forward voltage | V_F | 0.70 | | | 0.80 | | 0.85 | | | V | |
| 最大反向电流 TA= 25°C Maximum reverse current TA=100°C | I_R | 3 | | | | | 15 | | | | mA |
| 典型结电容 $V_R = 4.0V, f = 1MHz$ Type junction capacitance | C_j | 150 | | | | | | | | | pF |

特性曲线 Characteristic Curves

