

TO-252 Schottky Barrier Rectifier Diode 肖特基势垒整流二极管

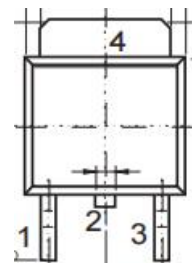
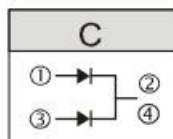
■ **Features 特点**

High surge current capability 高浪涌电流能力

Low forward voltage drop 低正向压降

High reliability 高可靠性

Case 封装:TO-252



■ **Maximum Rating 最大额定值**

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

| Characteristic 特性参数 | Symbol 符号 | MBRD 2045 | MBRD 2060 | MBRD 20100 | MBRD 20150 | MBRD 20200 | Unit 单位 |
|----------------------------------|-----------------|------------------------------|-----------|------------|------------|------------|-----------------------------|
| Peak Reverse Voltage 反向峰值电压 | V_{RRM} | 45 | 60 | 100 | 150 | 200 | V |
| DC Reverse Voltage 直流反向电压 | V_R | 45 | 60 | 100 | 150 | 200 | V |
| RMS Reverse Voltage 反向电压均方根值 | $V_{R(RMS)}$ | 32 | 42 | 70 | 105 | 140 | V |
| Forward Rectified Current 正向整流电流 | I_F | 20 | | | | | A |
| Peak Surge Current 峰值浪涌电流 | I_{FSM} | 175 | | | | | A |
| Thermal Resistance J-A 结到环境热阻 | $R_{\theta JA}$ | 8 | | | | | $^{\circ}\text{C}/\text{W}$ |
| Junction Temperature 结温 | T_J | 150 | | | | | $^{\circ}\text{C}$ |
| Storage Temperature 储藏温度 | T_{stg} | -55to+150 $^{\circ}\text{C}$ | | | | | $^{\circ}\text{C}$ |

■ **Electrical Characteristics 电特性**

($T_A=25^{\circ}\text{C}$ unless otherwise noted 如无特殊说明, 温度为 25°C)

| Characteristic 特性参数 | Symbol 符号 | MBRD 2045 | MBRD 2060 | MBRD 20100 | MBRD 20150 | MBRD 20200 | Unit 单位 | Condition 条件 |
|-------------------------|--|-----------|-----------|------------|------------|------------|---------|--------------------------------------|
| Forward Voltage 正向电压 | V_F | 0.55 | 0.70 | 0.85 | 0.9 | | V | $I_F=20\text{A}$ |
| Reverse Current 反向电流 | $I_R(25^{\circ}\text{C})$ (125°C) | 0.1 5 | | 0.02 2 | | | mA | $V_R=V_{RRM}$ |
| Diode Capacitance 二极管电容 | C_D | 500 | | | | | pF | $V_R=4\text{V}$, $f=1\text{MHz}$ |

■ Typical Characteristic Curve 典型特性曲线

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

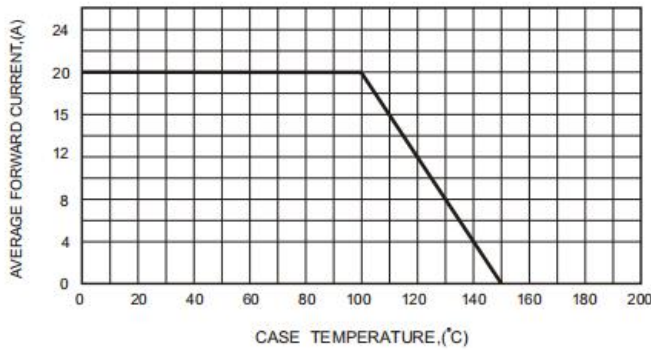


FIG.2-TYPICAL FORWARD CHARACTERISTICS

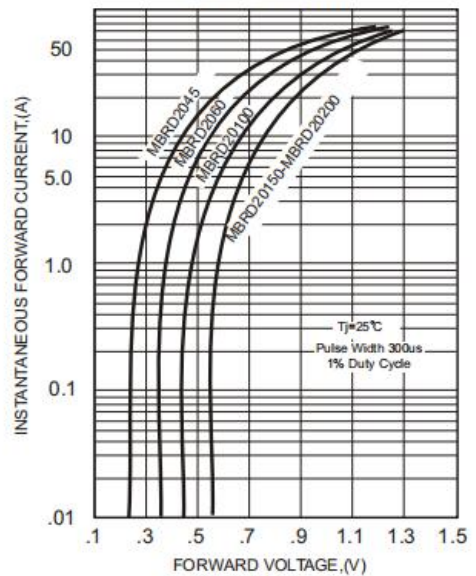


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

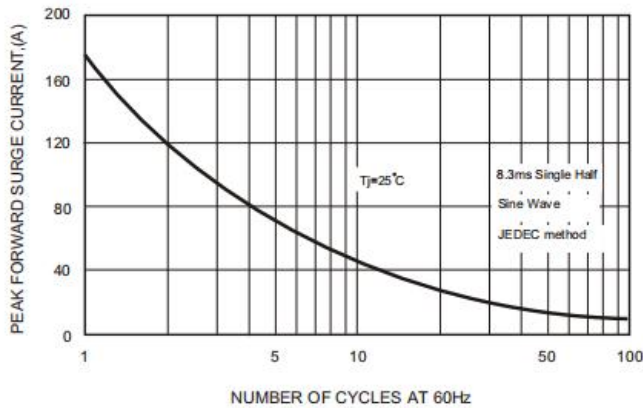


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

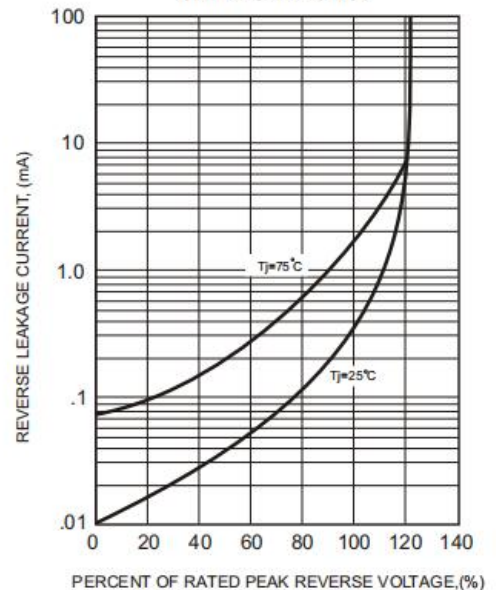
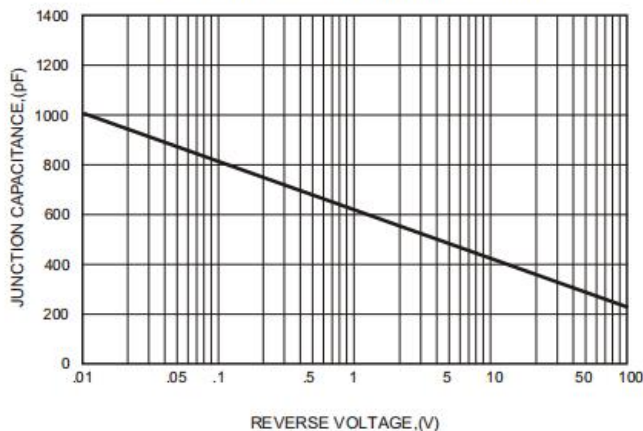


FIG.4-TYPICAL JUNCTION CAPACITANCE



■Dimension 外形封装尺寸

TO-252

Unit: mm

