

MBRD10200DT

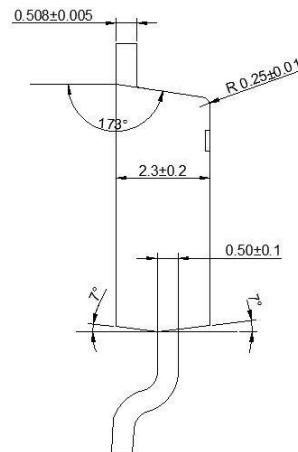
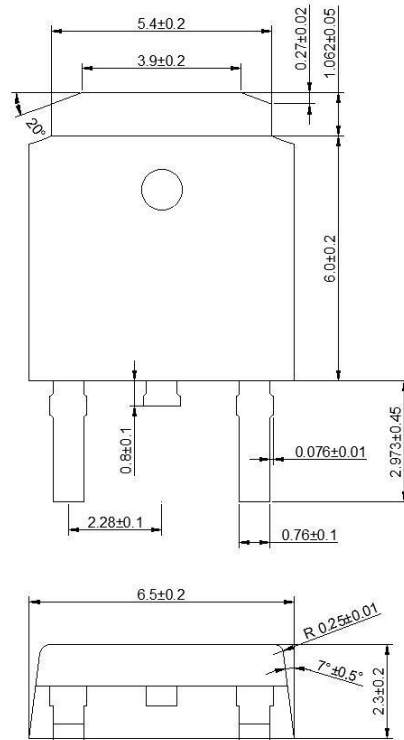
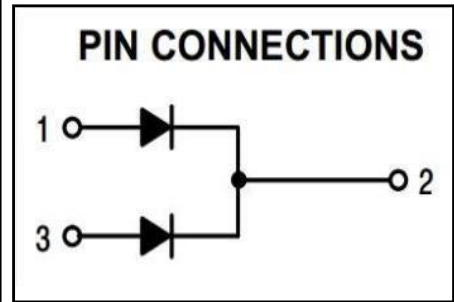
Power Schottky Rectifier - 10Amp 200Volt

◆ **Features:**

- ◇ High switching frequency
开关频率高
- ◇ Low forward voltage drop
正向压降低
- ◇ High efficiency and low power loss
高效低功耗
- ◇ High volume of current and good capability of surge current
大电流浪涌能力强

◆ **Applications**

- ◇ High frequency rectifier of switching mode power supplies
高频整流器开关电源
- ◇ Freewheeling diodes
续流二极管
- ◇ Polarity protection application
极性保护应用
- ◇ DC-DC converters
直流-直流变换器



单位: mm
TO-252

◆ Absolute Maximum Ratings (Tc=25°C)

| Symbol | Parameters | Ratings | Unit |
|-------------|--|----------------|------|
| V_{RRM} | Repetitive Peak Reverse Voltage 最大反向重复峰值电压 | 200 | V |
| V_{RWM} | Working peak reverse voltage 反向峰值工作电压 | 200 | V |
| V_R | Maximum DC blocking voltage 最大直流反向电压 | 200 | V |
| $I_{F(AV)}$ | Maximum average forward rectified current Total device 最大正向平均电流 | 10 | A |
| I_{FSM} | Peak Forward Surge Current 正向峰值浪涌电流 | 100 | A |
| T_j | Operating junction temperature range 结温 | 175 | °C |
| T_{stg} | Storage temperature range 贮存温度 | -55~175 | °C |

◆ Electrical characteristics

| Symbol | Parameters | Min | Typical | Max | Units | Conditions |
|---------------|--|-----|------------|--------------|-------|---|
| I_R | Maximum Reverse Leakage Current (Note 1) 最大反向瞬态电流 | -- | -- | 5 | uA | $V_R = V_{RRM}$ $T_C = 25\text{ °C}$ |
| V_F | Maximum Instantaneous Forward Voltage (Note 2) 最大瞬态正向压降 | -- | 0.9 | 0.95 | V | $I_F = 5A, T_C = 25\text{ °C}$ |
| $R_{th(j-c)}$ | Typical Thermal Resistance, Junction to Case 结到外壳的典型热阻 | -- | -- | 3.6 | °C/W | |
| dV/dt | Voltage Rate of Change 电压变化率 | -- | -- | 10000 | V/μs | |

Note 1: 2.0uS Pulse Width, f=1.0KHz

Note 2: Pulse Test : 300us Pulse Width, 1% Duty Cycle