

RB421D SCHOTTKY BARRIER DIODE

FEATURES

- Small Surface Mounting Type
- Low V_F
- High Reliability

APPLICATIONS

- Low Power Rectification



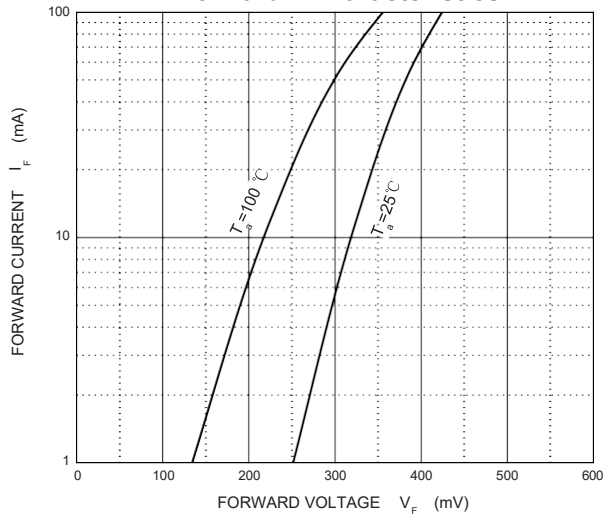
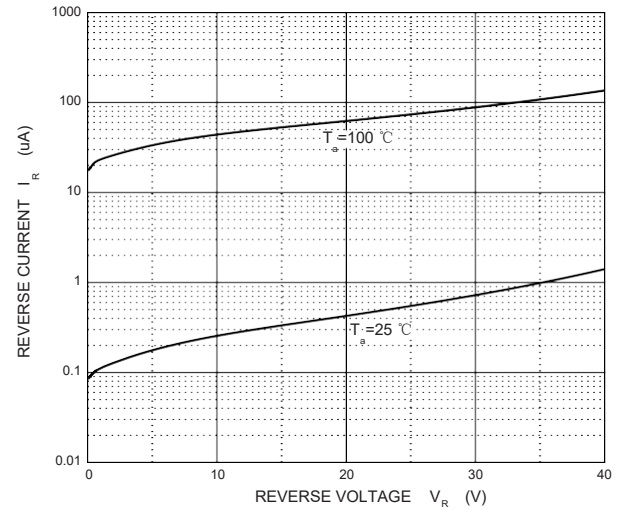
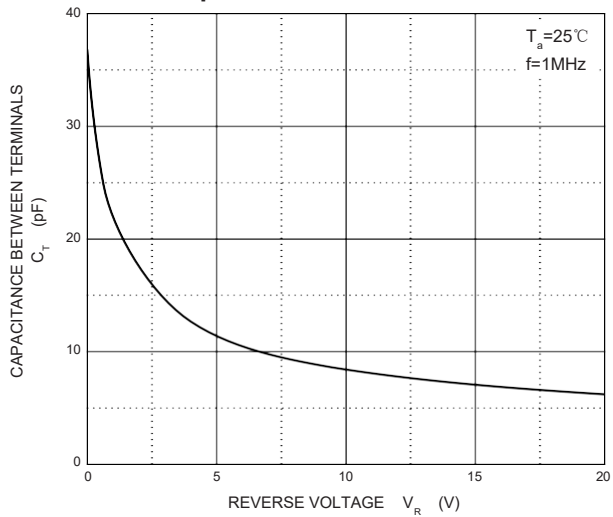
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MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

| Symbol | Parameter | Value | Unit |
|-----------------|--|-----------------|----------------------|
| V_R | DC Blocking Voltage | 40 | V |
| I_o | Continuous Forward Current | 100 | mA |
| I_{FSM} | Non-repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$ | 1 | A |
| P_D | Power Dissipation | 250 | mW |
| $R_{\theta JA}$ | Thermal Resistance from Junction to Ambient | 400 | $^{\circ}\text{C/W}$ |
| T_J | Operating Junction Temperature Range | $-40 \sim +125$ | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature Range | $-55 \sim +150$ | $^{\circ}\text{C}$ |

ELECTRICAL CHARACTERISTICS($T_a=25^{\circ}\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-------------------|------------|---------------------------------|-----|-----|------|---------------|
| Reverse voltage | $V_{(BR)}$ | $I_R=100\mu\text{A}$ | 40 | | | V |
| Reverse current | I_R | $V_R=10\text{V}$ | | | 30 | μA |
| Forward voltage | V_F | $I_F=100\text{mA}$ | | | 0.55 | V |
| | | $I_F=10\text{mA}$ | | | 0.34 | |
| Total capacitance | C_{tot} | $V_R=10\text{V}, f=1\text{MHz}$ | | 6 | | pF |

Forward Characteristics

Reverse Characteristics

Capacitance Characteristics

Power Derating Curve
