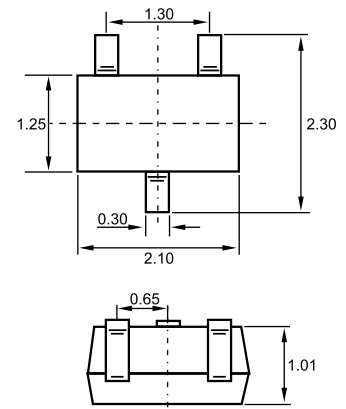


SOT-323



Features

- ✧ Extremely fast switching speed.
- ✧ Extremely low forward voltage-
0.28V(Typ)@ $I_F=1\text{mA}$.
- ✧ Common anode

Applications

- ✧ High speed switching application ,circuit protection and voltage clamping.

Ordering Information

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| MMBD717 | B3 | SOT-323 |

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

| Characteristic | Symbol | Limits | Unit |
|--------------------------------------|-----------|-------------|------------------|
| DC Reverse Voltage | V_R | 20 | V |
| Power Dissipation | P_d | 200 | mW |
| Operating Junction Temperature Range | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | -55 to +150 | $^\circ\text{C}$ |

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

| Characteristic | Symbol | Min | TYP | MAX | UNIT | Test Condition |
|---------------------------|-------------|-----|------|------|---------------|----------------------------------|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | 20 | | - | V | $I_R=10\mu\text{A}$ |
| Forward Voltage | V_F | - | 0.28 | 0.37 | V | $I_F=1.0\text{mA}$ |
| Reverse Leakage Current | I_R | - | 0.05 | 1.0 | μA | $V_R=10\text{V}$ |
| Diode Capacitance | C_D | - | 2.0 | 2.5 | pF | $V_R=1.0\text{V}, f=1\text{MHz}$ |

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

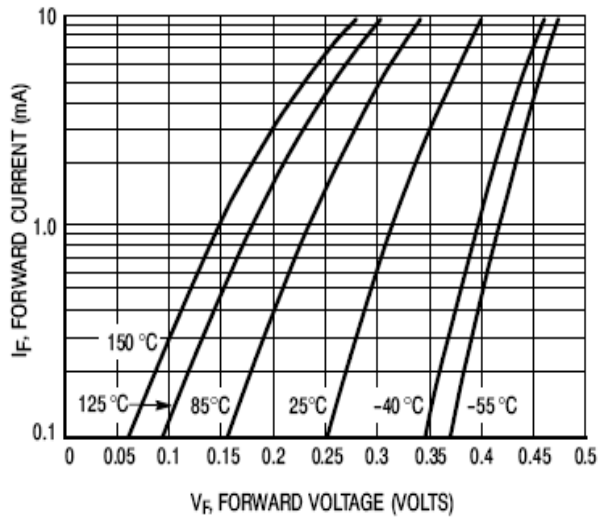


Figure 2. Typical Forward Voltage

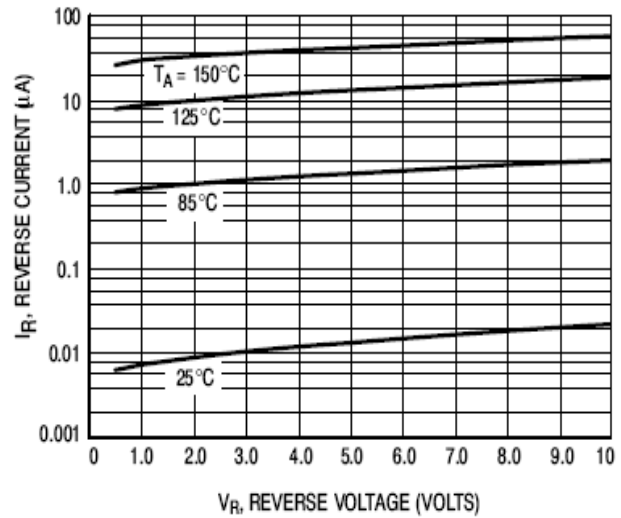


Figure 3. Reverse Current versus Reverse Voltage

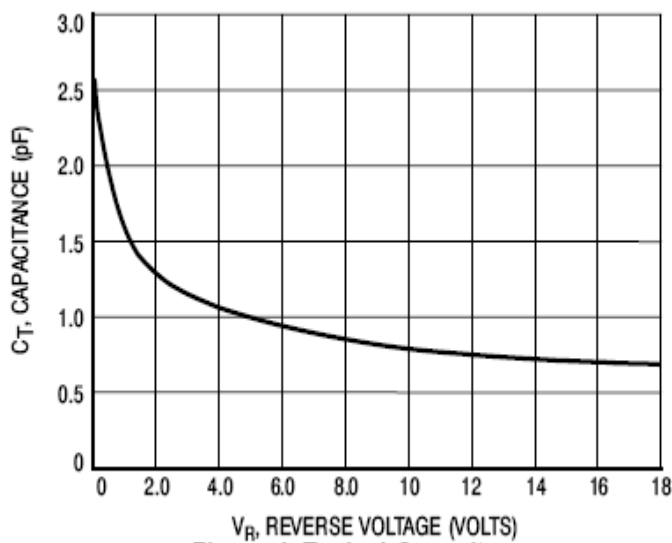


Figure 4. Typical Capacitance