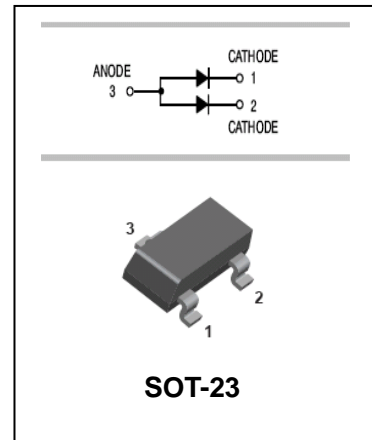


Surface mount switching diode

MMBD2835/MMBD2836

FEATURES

- High speed switching: $t_{rr}=4.0\text{ns}(\text{max})$
- Low capacitance: $C_T=2.5\text{pF}(\text{typ.})$



APPLICATIONS

- Small signal switching

ORDERING INFORMATION

| Type No. | Marking | Package Code |
|----------|---------|--------------|
| MMBD2835 | A3● | SOT-23 |
| MMBD2836 | A41 | SOT-23 |

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

| Parameter | Symbol | Limits | | Unit |
|-------------------------------------|-----------|----------|----------|------------------|
| | | MMBD2835 | MMBD2836 | |
| Non-Repetitive Peak reverse voltage | V_{RM} | 35 | 75 | V |
| DC Reverse Voltage | V_R | 30 | 50 | V |
| Average rectified output Current | I_o | 100 | | mA |
| Power Dissipation | P_d | 150 | | mW |
| Junction temperature | T_J | 125 | | $^\circ\text{C}$ |
| Storage temperature | T_{STG} | -55-125 | | $^\circ\text{C}$ |

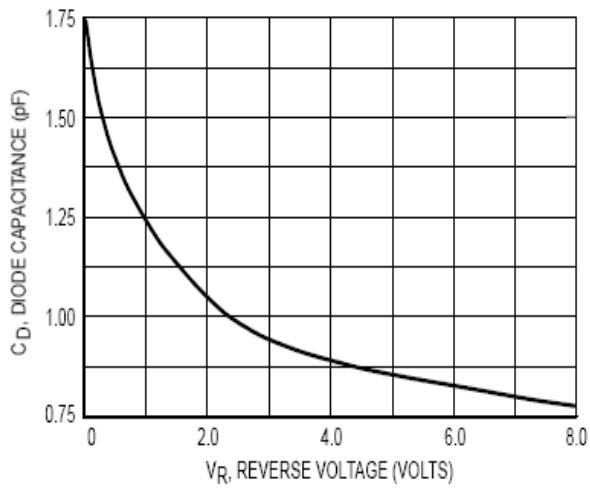
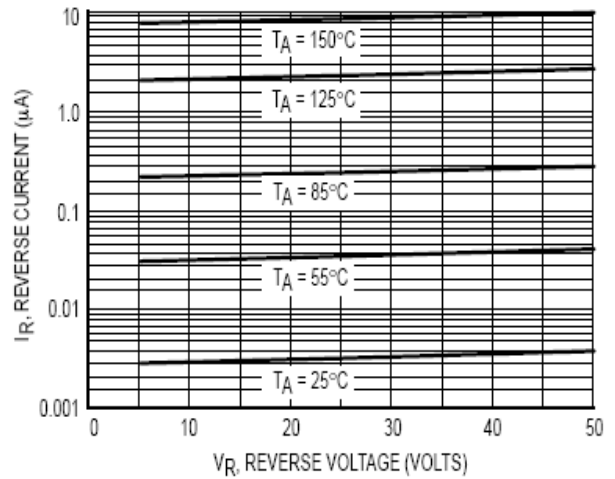
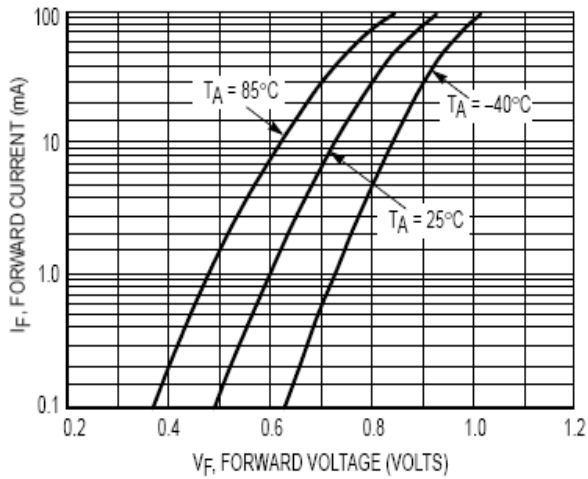
ELECTRICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|----------|------|------|------|---------------|--|
| Forward voltage | V_{F1} | | 0.72 | 1.0 | V | $I_R=10\text{mA}$ |
| | V_{F2} | | 0.88 | 1.1 | V | $I_R=50\text{mA}$ |
| | V_{F3} | | 1.0 | 1.2 | V | $I_F=100\text{mA}$ |
| Reverse current | I_R | | | 0.1 | μA | $V_R=30\text{V}$ MMBD2835 |
| | I_R | | | 0.1 | μA | $V_R=50\text{V}$ MMBD2836 |
| Capacitance between terminals | C_T | | | 4 | pF | $V_R=0, f=1\text{MHz}$ |
| Reverse Recovery Time | t_{rr} | | 2.5 | 4 | ns | $I_F=10\text{mA}, V_R=6V, I_{rr}=0.1 \cdot I_R, R_L=100\Omega$ |

Surface mount switching diode

MMBD2835/MMBD2836

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



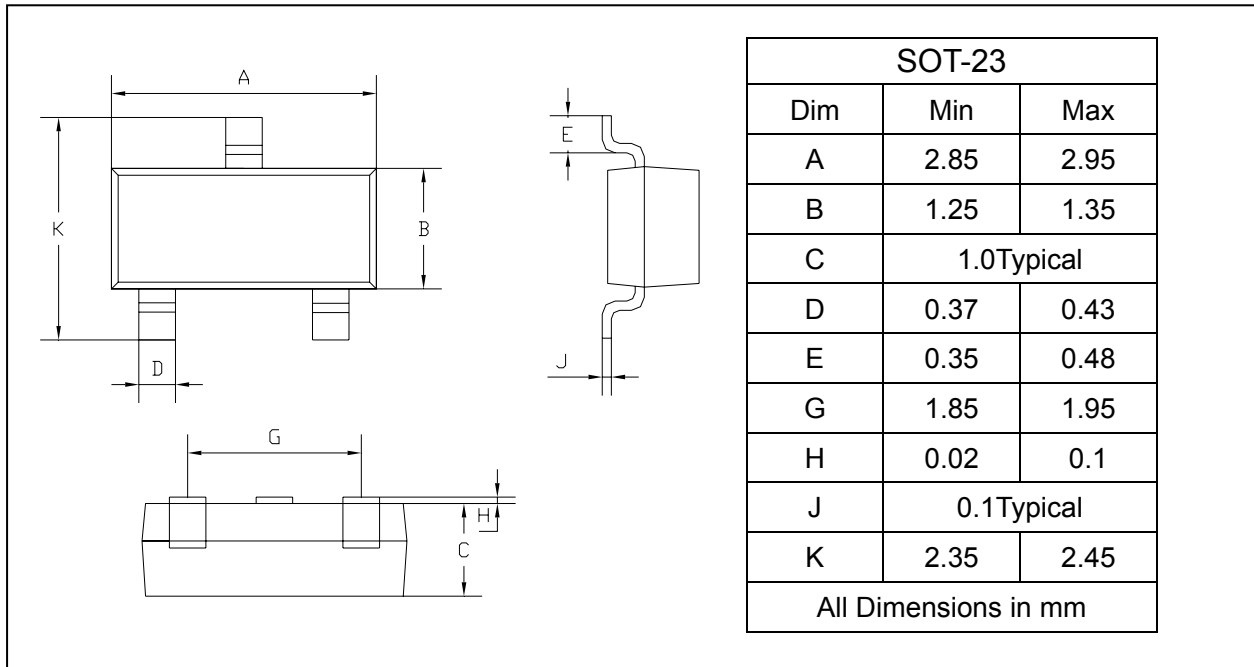
Surface mount switching diode

MMBD2835/MMBD2836

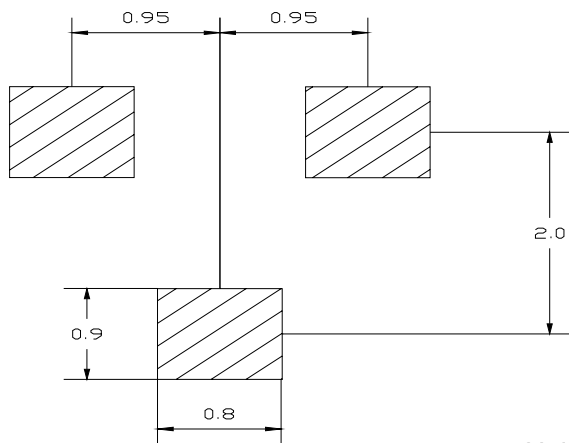
PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

| Device | Package | Shipping |
|-------------------|---------|----------------|
| MMBD2835/MMBD2836 | SOT-23 | 3000/Tape&Reel |