

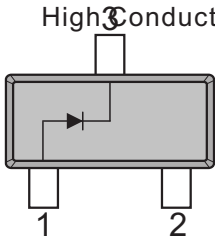


SOT-23

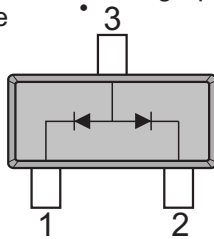
Switching Diodes

FEATURES

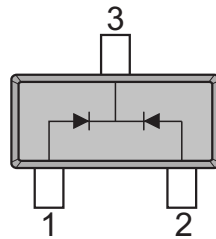
- Fast Switching Speed
- For General Purpose Switching Application
- High Conductance



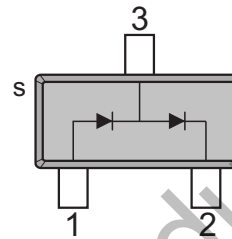
MMBD4148A



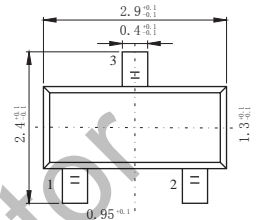
MMBD4148CA



MMBD4148CC



MMBD4148SE



Maximum Ratings @Ta=25°C

| Parameter | Symbol | Value | Unit |
|--|--------------|------------|------|
| Non-Repetitive Peak Reverse Voltage | V_{RM} | 100 | V |
| Peak Repetitive Peak Reverse Voltage | V_{RRM} | | |
| Working Peak Reverse Voltage | V_{RWM} | 100 | V |
| DC Blocking Voltage | V_R | | |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 75 | V |
| Forward Continuous Current | I_{FM} | 300 | mA |
| Average Rectified Output Current | I_o | 200 | mA |
| Peak Forward Surge Current @t=1.0µs | I_{FSM} | 2.0 | A |
| @t=1.0s | | 1.0 | |
| Power Dissipation | P_D | 350 | mW |
| Thermal Resistance Junction to Ambient | R_{thJA} | 357 | °C/W |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature | T_{STG} | -55 ~ +150 | °C |

Electrical Characteristics @Ta = 25°C

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-------------------------------|-------------|--|-----|-----|-----|------|
| Reverse breakdown voltage | $V_{(BR)1}$ | $I_R=100\mu A$ | 100 | | | V |
| | $V_{(BR)2}$ | $I_R=5\mu A$ | 75 | | | V |
| Forward voltage | V_F | $I_F=10mA$ | | | 1.0 | V |
| Reverse current | I_{R1} | $V_R=75V$ | | | 5.0 | µA |
| | I_{R2} | $V_R=25V$ | | | 25 | nA |
| Capacitance between terminals | C_T | $V_R=0V, f=1MHz$ | | | 4.0 | pF |
| Reverse recovery time | t_{rr} | $I_F=I_R=10mA, V_R=6V$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$ | | | 4.0 | ns |

Fig.1 Power Derating Curve

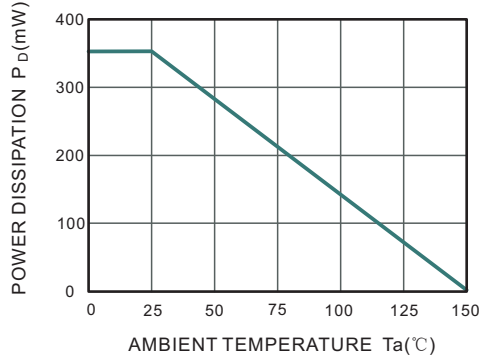


Fig.2 Reverse Characteristics

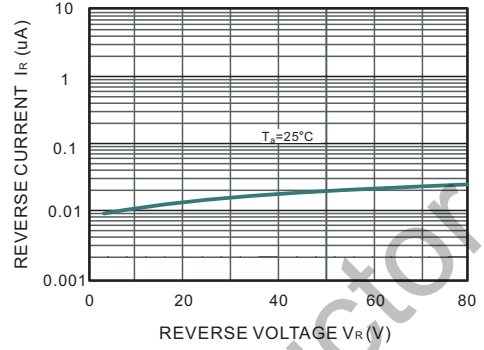


Fig.3 Forward Characteristics

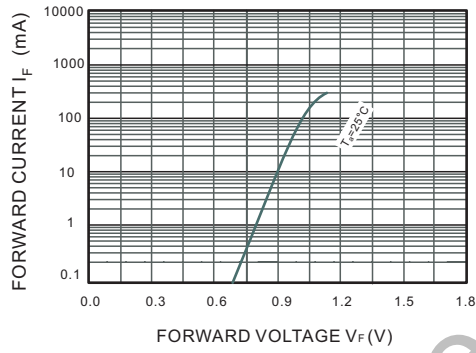


Fig.4 Capacitance Characteristics

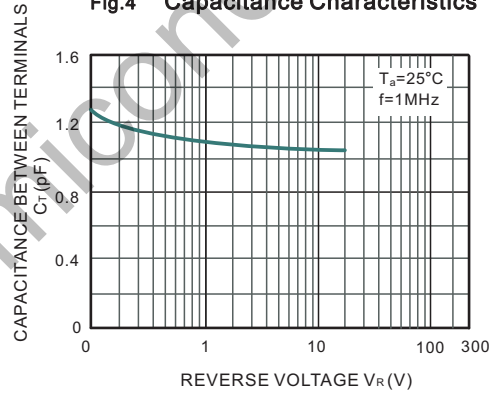
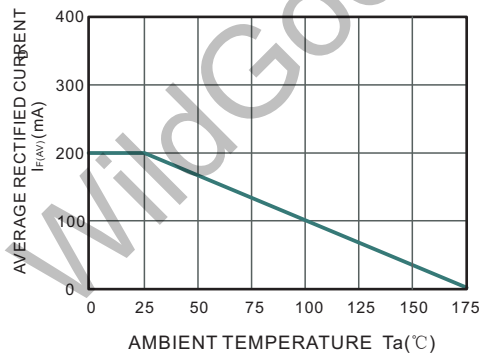
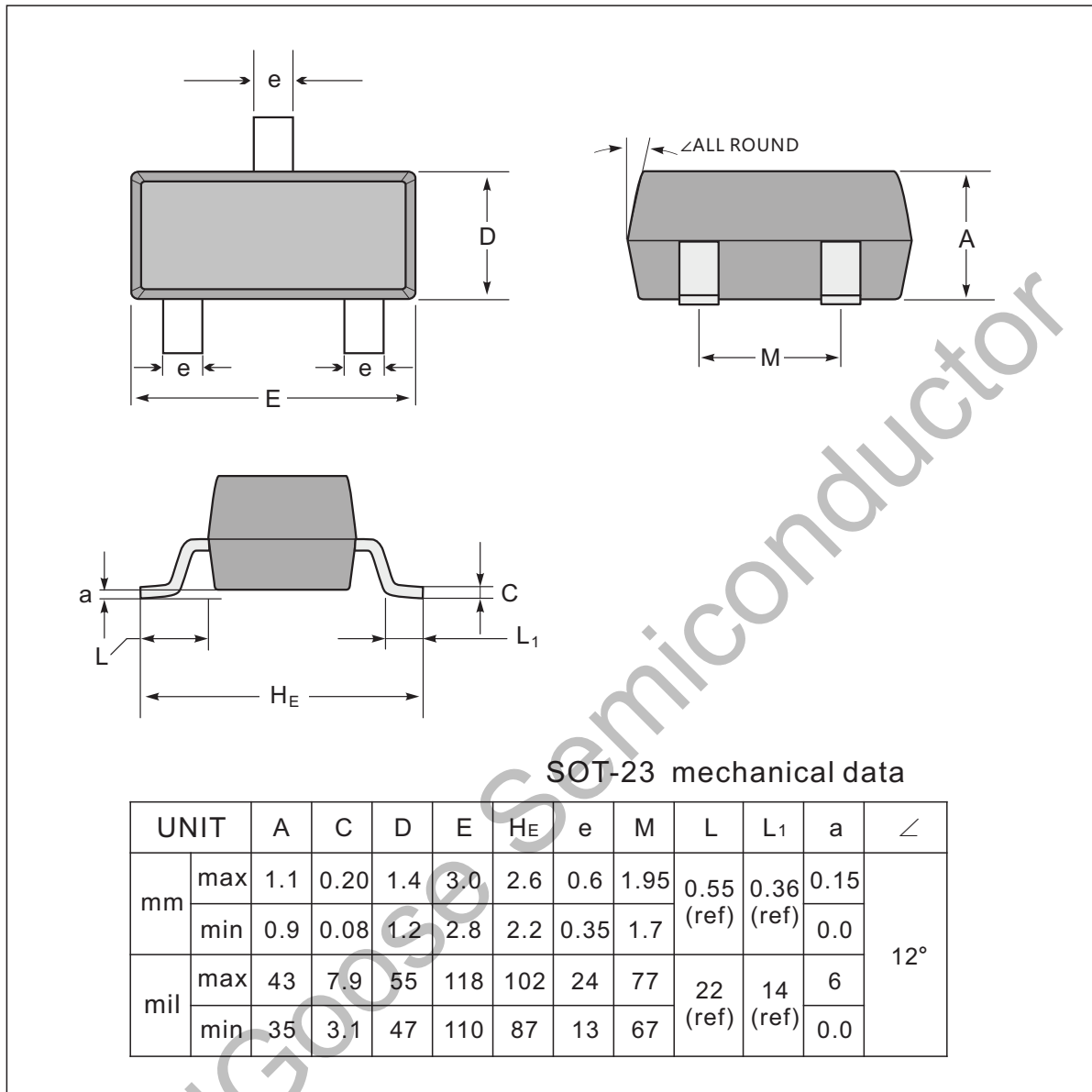


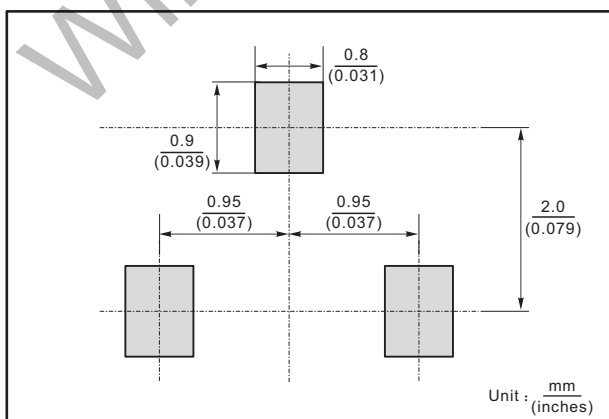
Fig.5 Semiconductor Intrinsic Property



SOT-23 Package Outline Dimensions



The recommended mounting pad size



Marking

| Type number | Marking code |
|-------------|--------------|
| MMBD4148A | 5H |
| MMBD4148CA | D6 |
| MMBD4148CC | D5 |
| MMBD4148SE | D4 |

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