

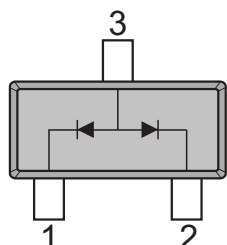
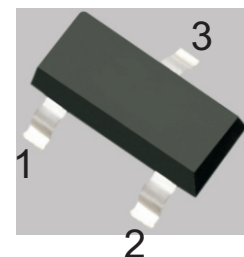


Switching Diodes

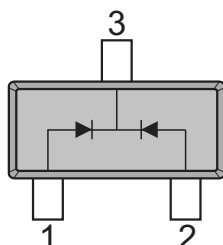
FEATURES

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

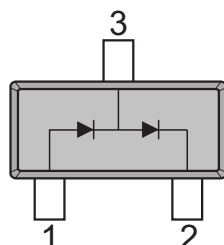
SOT-23



BAW56



BAV70



BAV99

Maximum Ratings @Ta=25°C

| Parameter | Symbol | Value | Unit |
|--|----------------|------------|------|
| Reverse Voltage | V_R | 70 | V |
| Forward Current | I_F | 200 | mA |
| Non-Repetitive Peak Forward Surge Current @t=8.3ms | I_{FSM} | 2.0 | A |
| Power Dissipation | P_D | 225 | mW |
| Thermal Resistance Junction to Ambient | R_{thJA} | 556 | °C/W |
| Operation Junction and Storage Temperature Range | T_J, T_{STG} | -55 ~ +150 | °C |

Electrical Characteristics@Ta=25°C

| Parameter | Symbol | Test conditions | Min | Typ | Max | Unit |
|-------------------------------|----------|---|-----|-----|-------|---------|
| Reverse breakdown voltage | V_R | $I_R=100\mu A$ | 70 | | | V |
| Forward voltage | V_{F1} | $I_F=1\text{ mA}$ | | | 0.715 | V |
| | V_{F2} | $I_F=10\text{mA}$ | | | 0.855 | V |
| | V_{F3} | $I_F=50\text{mA}$ | | | 1 | V |
| | V_{F4} | $I_F=150\text{mA}$ | | | 1.25 | V |
| Reverse current | I_R | $V_R=70\text{V}$ | | | 2.5 | μA |
| Capacitance between terminals | C_T | $V_R=0, f=1\text{MHz}$ | | | 1.5 | pF |
| Reverse recovery time | t_{rr} | $I_F=I_R=10\text{mA}, I_{rr}=0.1 \times I_R, R_L=100\Omega$ | | | 6 | ns |



Fig.1 Power Derating Curve

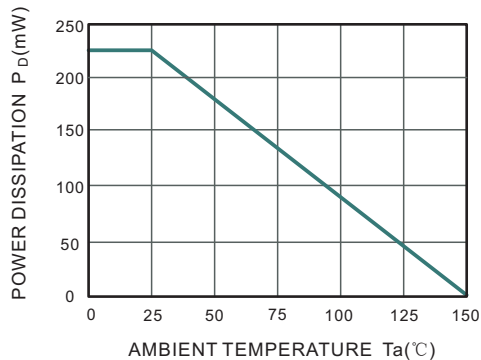


Fig.2 Reverse Characteristics

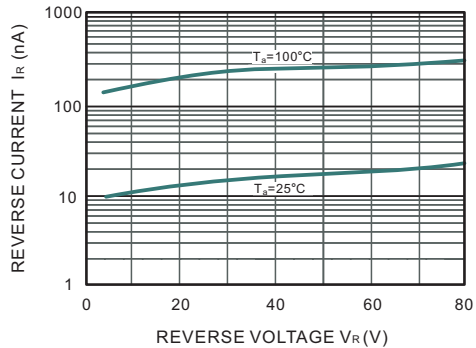


Fig.3 Forward Characteristics

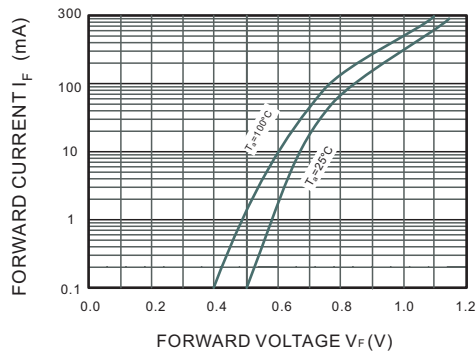
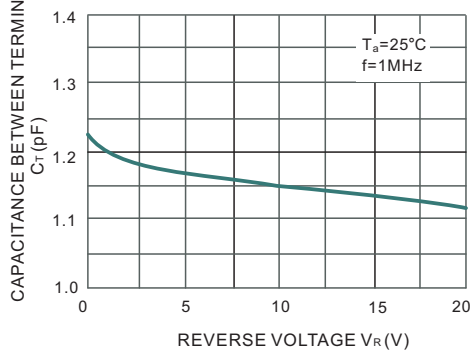
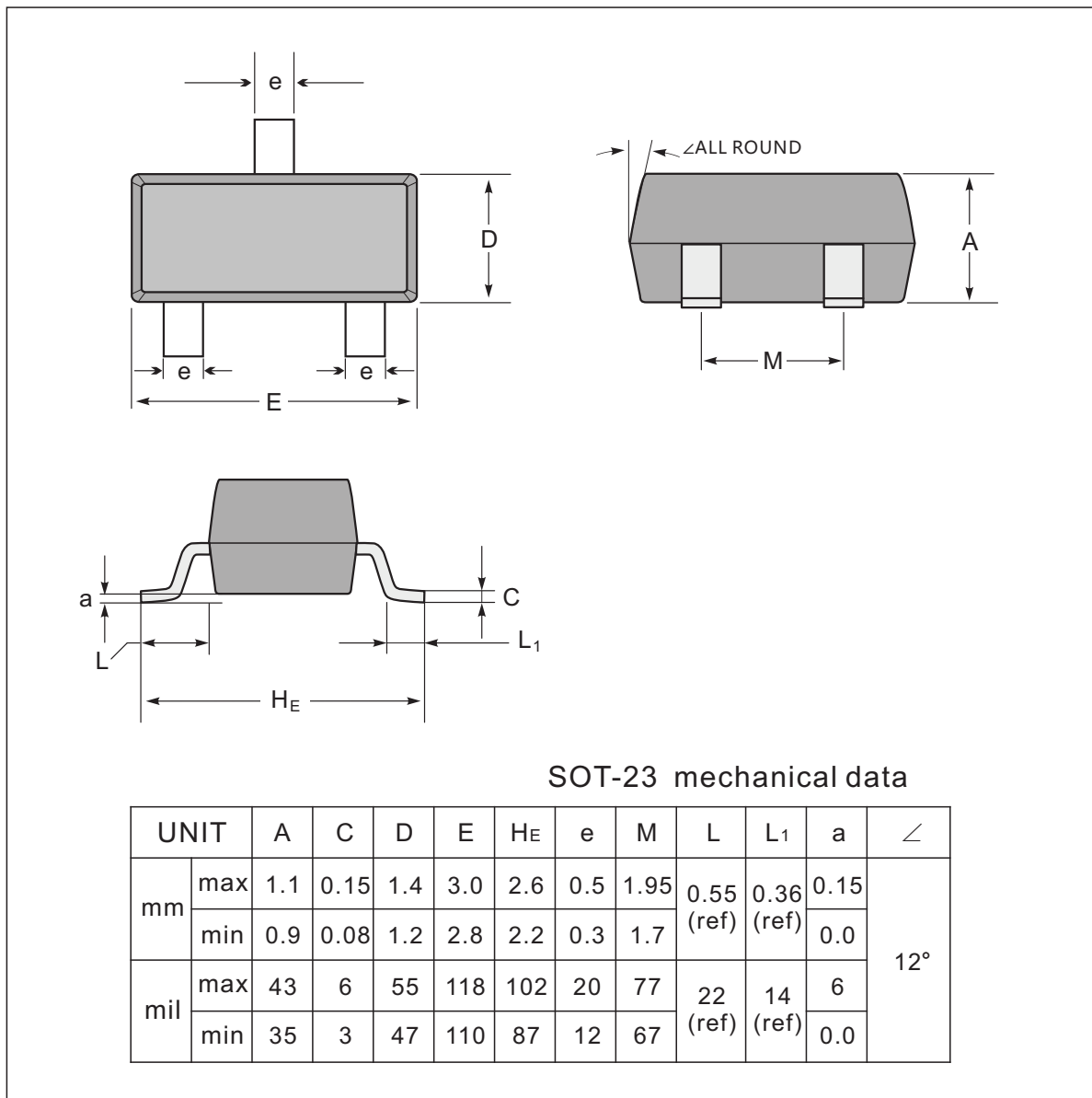


Fig.4 Capacitance Characteristics

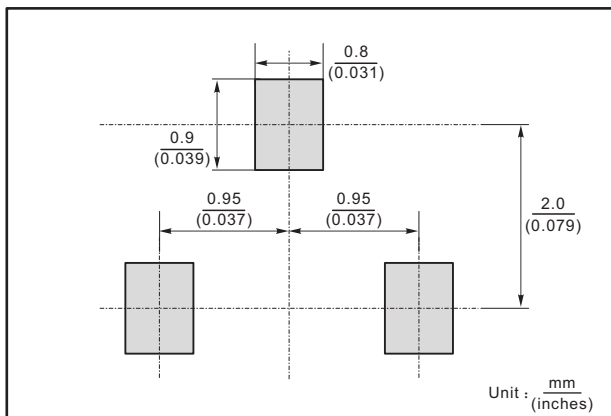




SOT-23 Package Outline Dimensions



The recommended mounting pad size



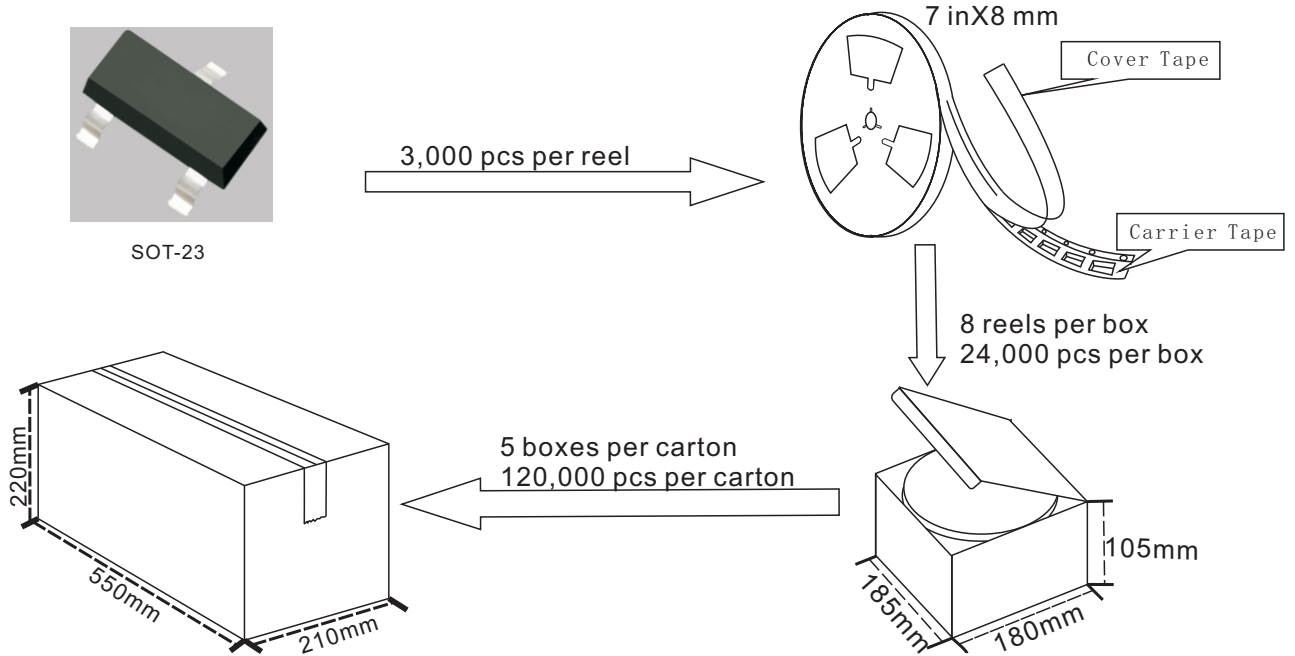
Marking

| Type number | Marking code |
|-------------|--------------|
| BAW56 | A1 |
| BAV70 | A4 |
| BAV99 | A7 |

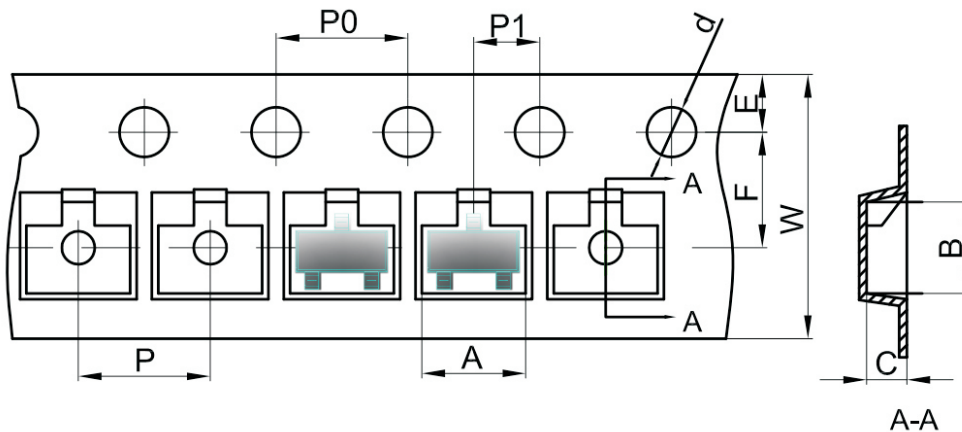


SOT-23 Packing

1. The method of packaging and dimension are shown as below figure. (Dimension in mm)



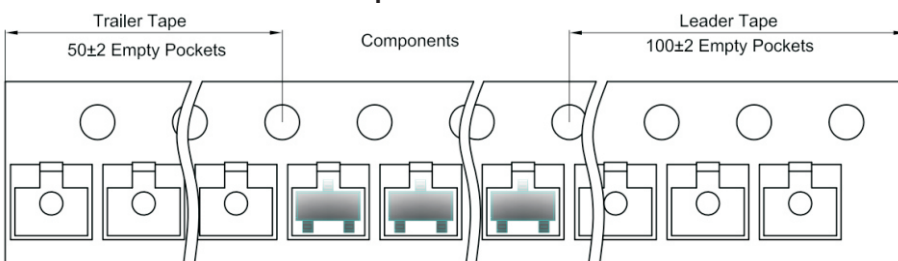
SOT-23 Embossed Carrier Tape



Dimensions are in millimeter

| Pkg type | A | B | C | d | E | F | P0 | P | P1 | W |
|----------|------|------|------|-------|------|------|------|------|------|------|
| SOT-23 | 3.15 | 2.77 | 1.22 | Ø1.50 | 1.75 | 3.50 | 4.00 | 4.00 | 2.00 | 8.00 |

SOT-23 Tape Leader and Trailer



单击下面可查看定价，库存，交付和生命周期等信息

[>>JINGDAO\(晶导微\)](#)