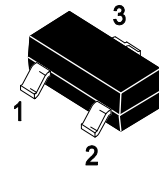


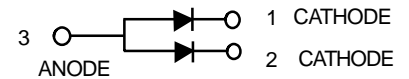
## 1. FEATURES

- Low forward voltage :  $V_F (3) = 0.90V$  (typ.)
- Fast reverse recovery time :  $t_{rr} = 1.8ns$  (typ.)
- Small total capacitance :  $C_T = 2.3pF$  (typ.)
- We declare that the material of product compliance with RoHS requirements and Halogen Free.



## 2. DEVICE MARKING AND RESISTOR VALUES

| Device | Marking | Shipping       |
|--------|---------|----------------|
| BAW156 | A1      | 3000/Tape&Reel |



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## 3. MAXIMUM RATINGS( $T_a = 25^\circ C$ )

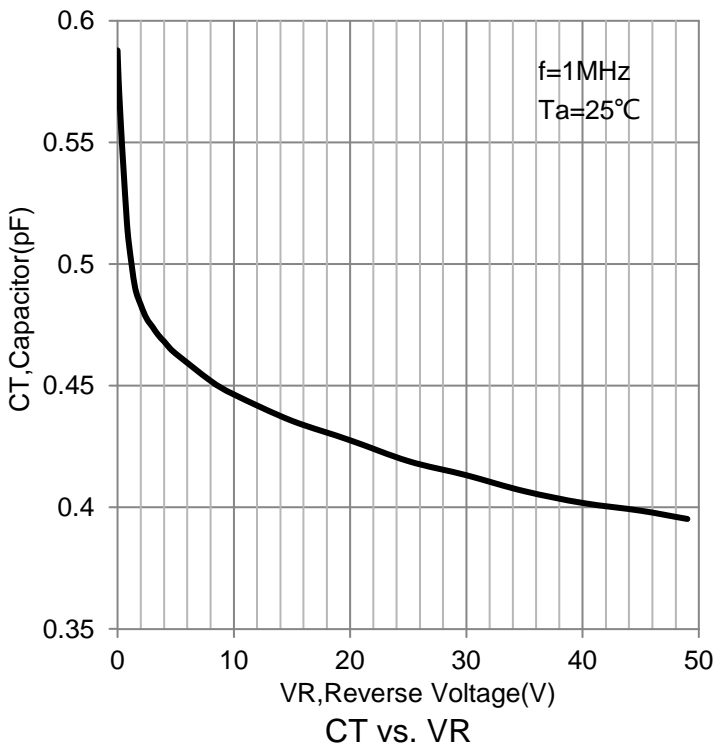
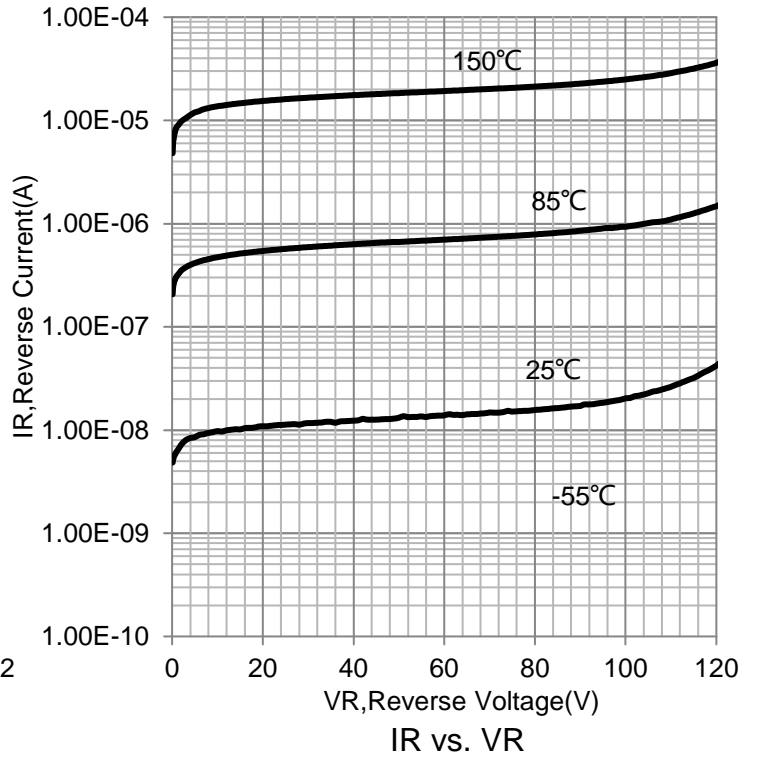
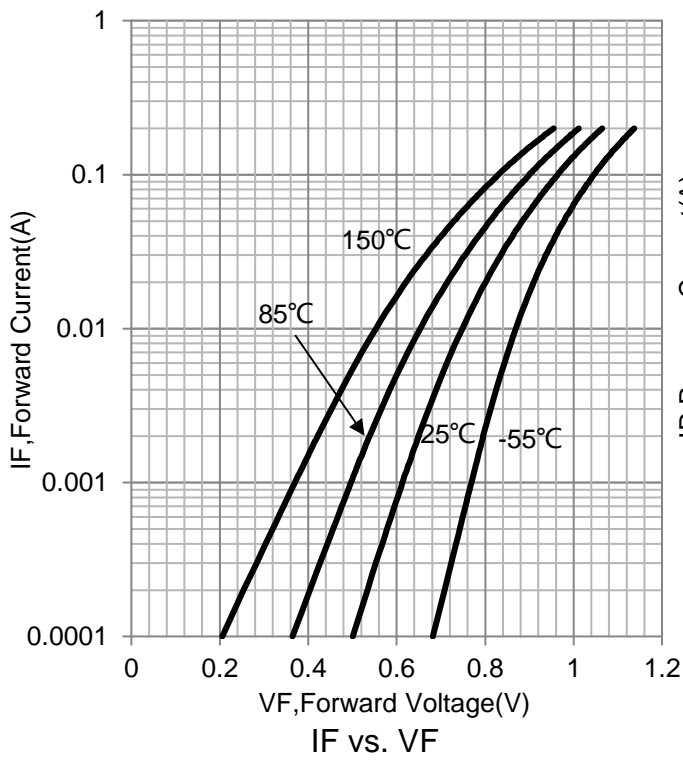
| Parameter                      | Symbol | Limits      | Unit       |
|--------------------------------|--------|-------------|------------|
| Maximum (peak) reverse voltage | VRM    | 85          | V          |
| Reverse voltage                | VR     | 80          | V          |
| Maximum (peak) forward current | IFM    | 300(Note 1) | mA         |
| Average forward current        | IO     | 100(Note 1) | mA         |
| Surge current (10ms)           | IFSM   | 2(Note 1)   | A          |
| Power dissipation              | P      | 150         | mW         |
| Junction temperature           | Tj     | 125         | $^\circ C$ |
| Storage temperature range      | Tstg   | -55 to +125 | $^\circ C$ |

1. Unit rating. Total rating = Unit rating  $\times$  1.5.

## 4. ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ C$ )

| CHARACTERISTICS                              | Symbol | Min | Typ. | Max | Unit    |
|--|--------|-----|------|-----|---------|
| Forward voltage<br>( $I_F = 1mA$ )           | VF     | -   | 0.60 | -   | V       |
| ( $I_F = 10mA$ )                             |        | -   | 0.75 | -   |         |
| ( $I_F = 100mA$ )                            |        | -   | 0.9  | 1.2 |         |
| Reverse current<br>( $V_R = 30V$ )           | IR     | -   | -    | 0.1 | $\mu A$ |
| ( $V_R = 80V$ )                              |        | -   | -    | 0.5 |         |
| Total capacitance<br>( $f = 1MHz, V_R = 0$ ) | CT     | -   | 2.3  | 4   | pF      |
| Reverse Recovery Time<br>( $I_F = 10mA$ )    | Trr    | -   | 1.8  | 4   | nS      |

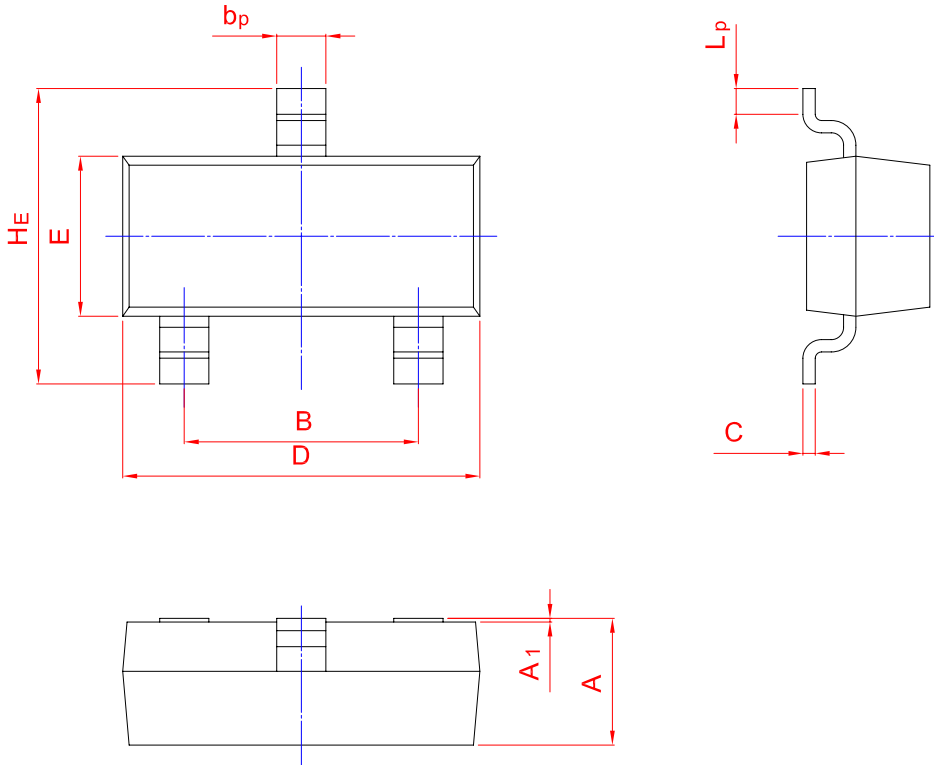
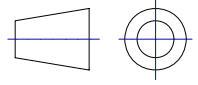
### 5. ELECTRICAL CHARACTERISTICS CURVES



**PACKAGE OUTLINE**

Plastic surface mounted package; 3 leads

SOT-23



| UNIT | A    | B    | $b_p$ | C    | D    | E    | $H_E$ | $A_1$ | $L_p$ |
|------|------|------|-------|------|------|------|-------|-------|-------|
| mm   | 1.40 | 2.04 | 0.50  | 0.19 | 3.10 | 1.65 | 3.00  | 0.100 | 0.50  |
|      | 0.95 | 1.78 | 0.35  | 0.08 | 2.70 | 1.20 | 2.20  | 0.013 | 0.20  |