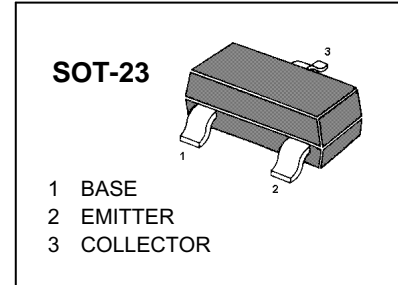
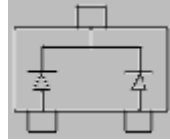


### FEATURES

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

### MARKING A4



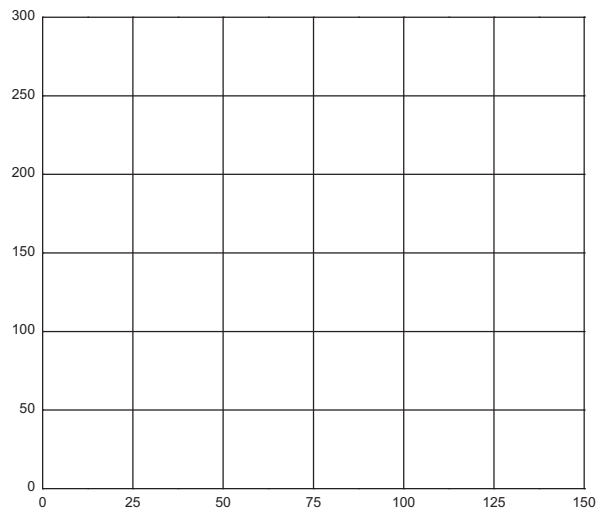
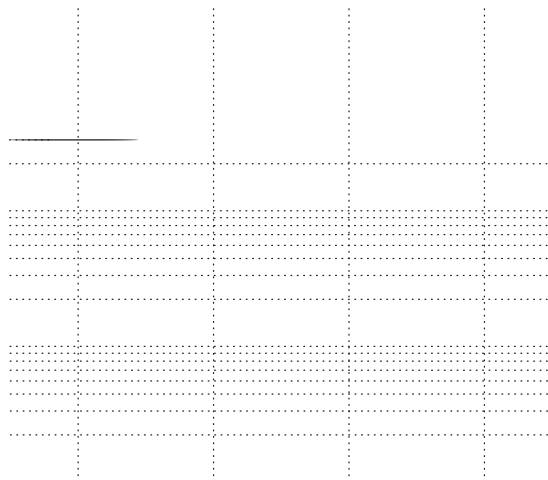
### Maximum Ratings @Ta=25°C

| Parameter   | Symbol          | Limit    | Unit |
|---|-----------------|----------|------|
| Reverse Voltage                                     | $V_{RM}$        | 70       | V    |
| Reverse Voltage                                     | $V_R$           | 70       | V    |
| Forward Current                                     | $I_F$           | 200      | mA   |
| Forward Current                                     | $I_{FRM}$       | 500      | 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              | $R_{\theta JA}$ | 556      | °C/W |
| Junction Temperature                                | $T_J$           | 150      | °C   |
| Storage Temperature range                           | $T_{STG}$       | -55~+150 | °C   |

### Electrical Characteristics @Ta=25°C

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

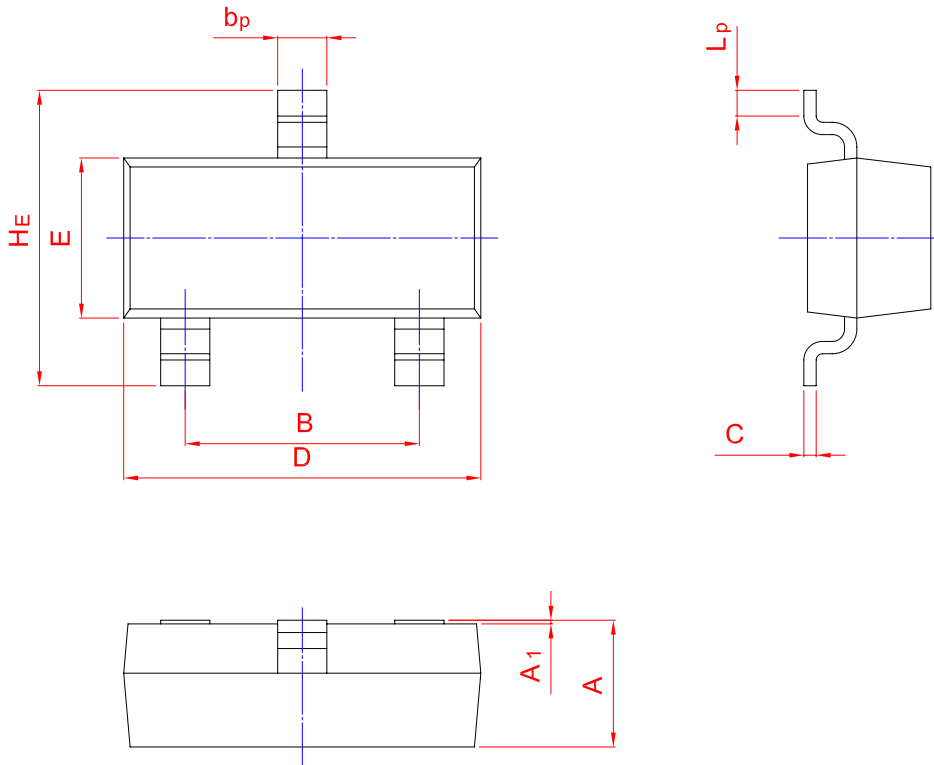
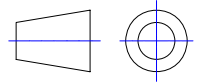
## Typical Characteristics



### PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23



| UNIT | A    | B    | b <sub>p</sub> | C    | D    | E    | H <sub>E</sub> | A <sub>1</sub> | L <sub>p</sub> |
|------|------|------|----------------|------|------|------|----------------|----------------|----------------|
| 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           |