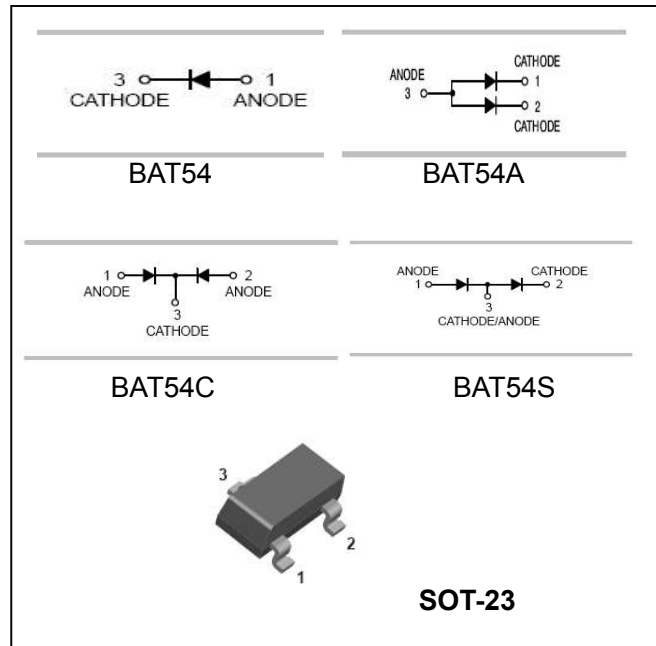


## FEATURES

- Fast switching .
- Low Turn-on voltage.
- PN Junction Guard Ring for Transient and ESD Protection.
- Available in Lead Free Version.



## ORDERING INFORMATION

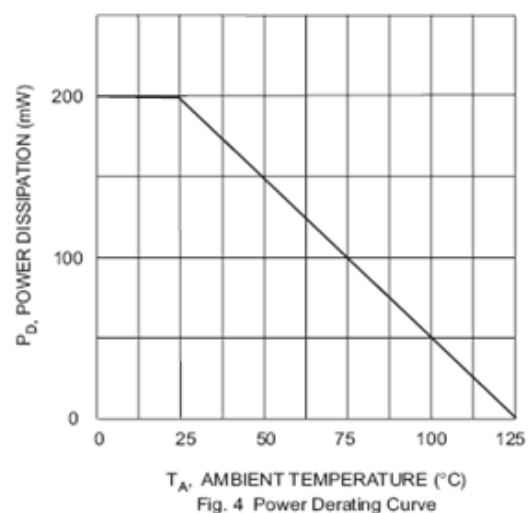
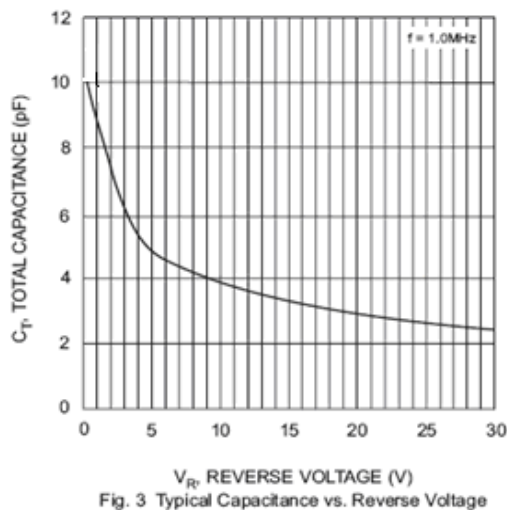
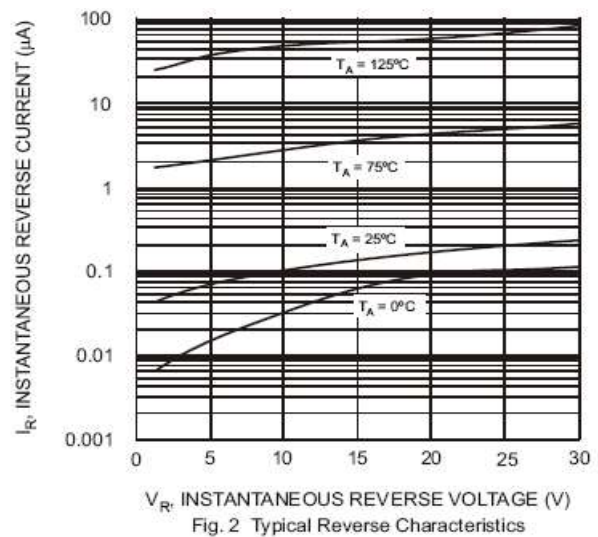
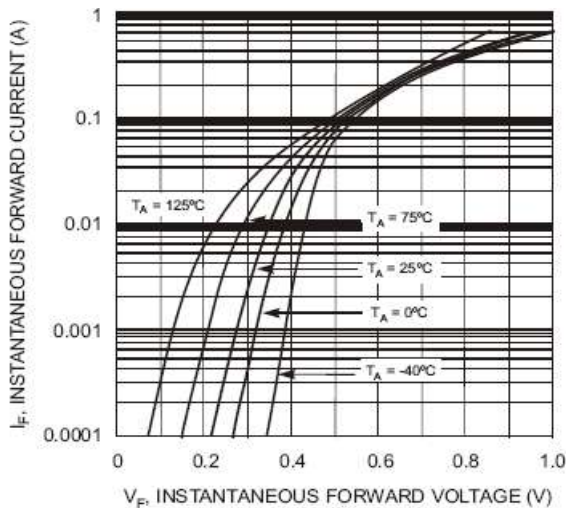
| Type No. | Marking | Package Code |
|----------|---------|--------------|
| BAT54    | KL1     | SOT-23       |
| BAT54A   | KL2     | SOT-23       |
| BAT54C   | KL3     | SOT-23       |
| BAT54S   | KL4     | SOT-23       |

## MAXIMUM RATING @ Ta=25°C unless otherwise specified

| Parameter                                   | Symbol                | Limits      | Unit |
|---|-----------------------|-------------|------|
| Peak Repetitive Peak reverse voltage        | $V_{RRM}$             | 30          | V    |
| Working Peak Reverse Voltage                | $V_{RWM}$             |             |      |
| DC Reverse Voltage                          | $V_R$                 |             |      |
| Forward Continuous Current                  | $I_F$                 | 200         | mA   |
| Repetitive Peak Forward Current             | @tp<1.0s<br>$I_{FRM}$ | 300         | mA   |
| Forward surge current                       | @tp<10ms<br>$I_{FSM}$ | 600         | mA   |
| Power Dissipation                           | $P_d$                 | 200         | mW   |
| Thermal resistance, junction to ambient air | $R_{\theta JA}$       | 500         | °C/W |
| Operating and Storage temperature           | $T_J, T_{STG}$        | -55 to +150 | °C   |

**ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**

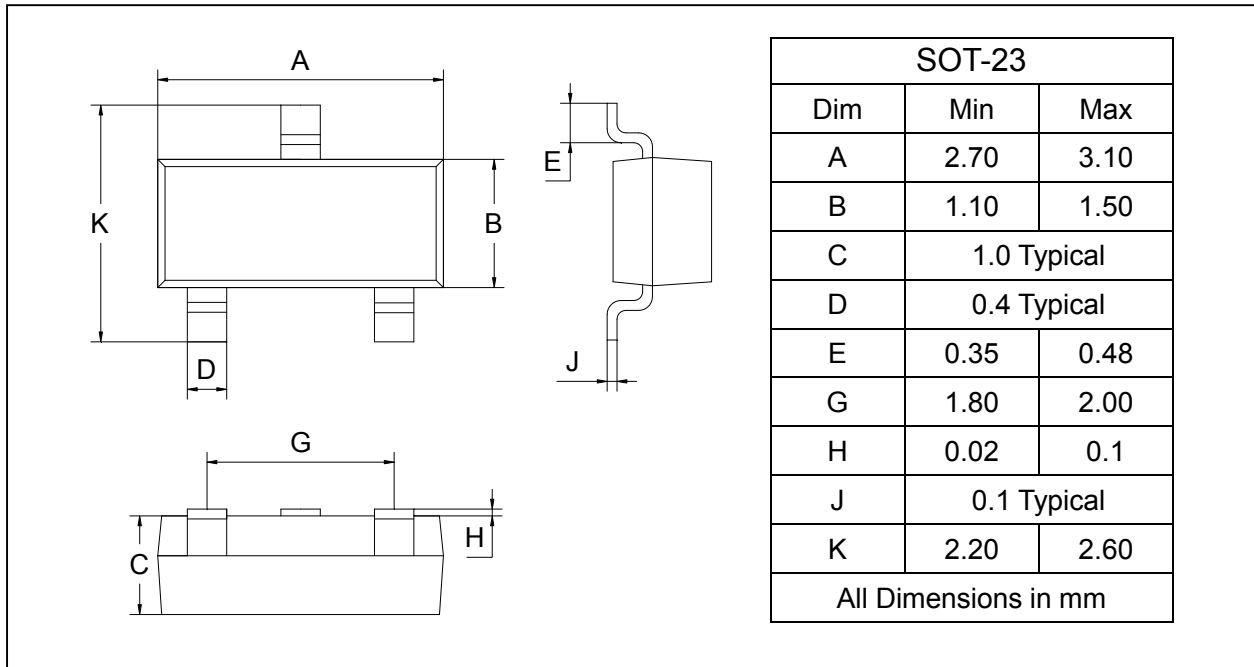
| Parameter                 | Symbol     | Min. | Typ. | Max. | Unit    | Conditions                                       |
|---------------------------|------------|------|------|------|---------|--|
| Reverse Breakdown Voltage | $V_{(BR)}$ | 30   |      |      | V       | $I_R=100\mu A$                                   |
| Forward voltage           | $V_{F1}$   |      |      | 0.24 | V       | $I_F=0.1mA$                                      |
|                           |            |      |      | 0.32 | V       | $I_F=1mA$  |
|                           |            |      |      | 0.40 | V       | $I_F=10mA$                                       |
|                           |            |      |      | 0.50 | V       | $I_F=30mA$                                       |
|                           |            |      |      | 0.8  | V       | $I_F=100mA$                                      |
| Reverse current           | $I_R$      |      |      | 2    | $\mu A$ | $V_R=25V$  |
| Diode Capacitance         | $C_D$      |      |      | 10   | pF      | $V_R=1V, f=1MHz$                                 |
| Reverse Recovery Time     | $t_{rr}$   |      |      | 5    | ns      | $I_F=I_R=10mA$<br>$I_{rr}=0.1I_R, R_L=100\Omega$ |

**TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified**


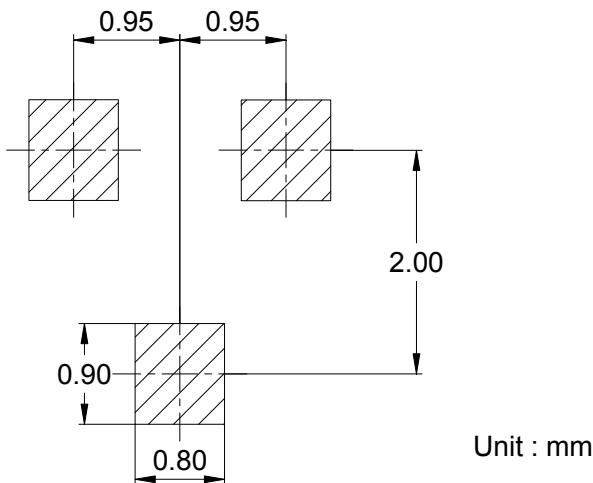
## PACKAGE OUTLINE

Plastic surface mounted package

SOT-23



## SOLDERING FOOTPRINT



## PACKAGE INFORMATION

| Device      | Package | Shipping       |
|-------------|---------|----------------|
| BAT54/A/C/S | SOT-23  | 3000/Tape&Reel |

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