



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

## SOT-23 Plastic-Encapsulate Diodes

**BAT54/A/C/S** SCHOTTKY DIODES

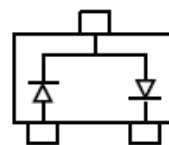
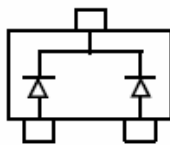
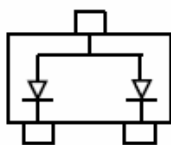
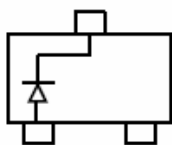
SOT-23



### FEATURES

Power Dissipation

PD : 200 mW ( $T_{amb}=25^{\circ}C$ )



BAT54 MARKING: KL1    BAT54A MARKING: KL2    BAT54C MARKING: KL3    BAT54S MARKING: KL4

### Maximum Ratings @ $T_A=25$

| Parameter                            | Symbol    | Limits  | Unit        |
|--------------------------------------|-----------|---------|-------------|
| Peak Repetitive Peak reverse voltage | $V_{RRM}$ | 30      | V           |
| Working Peak Reverse Voltage         | $V_{RWM}$ |         |             |
| DC Blocking Voltage                  | $V_R$     |         |             |
| Forward Continuous Current           | $I_{FM}$  | 200     | mA          |
| Power Dissipation                    | $P_d$     | 200     | mW          |
| Storage temperature                  | $T_{STG}$ | -55-150 | $^{\circ}C$ |

### Electrical Characteristics@ $T_A=25^{\circ}C$

| Parameter                 | Symbol      | Min. | Typ. | Max. | Unit    | Conditions                                       |
|---------------------------|-------------|------|------|------|---------|--------------------------------------------------|
| Reverse Breakdown Voltage | $V_{(BR)R}$ | 30   |      |      | V       | $I_R=100\mu A$                                   |
| Forward voltage           | $V_{F1}$    |      |      | 0.24 | V       | $I_F=0.1mA$                                      |
|                           | $V_{F2}$    |      |      | 0.32 | V       | $I_F=1mA$                                        |
|                           | $V_{F3}$    |      |      | 0.40 | V       | $I_F=10mA$                                       |
|                           | $V_{F4}$    |      |      | 0.50 | V       | $I_F=30mA$                                       |
|                           | $V_{F5}$    |      |      | 1    | 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

## BAT54/A/C/S

