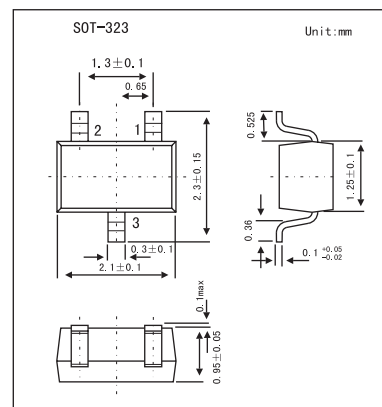


## Silicon Schottky Diode

## BAT68-04W,BAT68-05W,BAT68-06W

## ■ Features

- For mixer applications in VHF/UHF range
- For high-speed switching application

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

| Parameter                                           | Symbol     | Value       | Unit             |
|-----------------------------------------------------|------------|-------------|------------------|
| Diode reverse voltage                               | $V_R$      | 8           | V                |
| Forward current                                     | $I_F$      | 130         | mA               |
| Total power dissipation $T_s \leq 92^\circ\text{C}$ | $P_{tot}$  | 150         | mW               |
| Junction temperature                                | $T_j$      | 150         | $^\circ\text{C}$ |
| Storage temperature                                 | $T_{stg}$  | -55 to +150 | $^\circ\text{C}$ |
| Junction - soldering point(Note 1)                  | $R_{thJS}$ | $\leq 390$  | K/W              |

Note

1.For calculation of  $R_{thJA}$  please refer to Application Note Thermal Resistance■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

| Parameter                       | Symbol     | Conditions                                  | Min | Typ | Max | Unit          |
|---------------------------------|------------|---------------------------------------------|-----|-----|-----|---------------|
| Breakdown voltage               | $V_{(BR)}$ | $I_{(BR)} = 10 \mu\text{A}$                 | 8   |     |     | V             |
| Reverse current                 | $I_R$      | $V_R = 1 \text{ V}$                         |     |     | 0.1 | $\mu\text{A}$ |
|                                 |            | $V_R = 1 \text{ V}, T_A = 60^\circ\text{C}$ |     |     | 1.2 |               |
| Forward voltage                 | $V_F$      | $I_F = 1 \text{ mA}$                        |     | 318 | 340 | mV            |
|                                 |            | $I_F = 10 \text{ mA}$                       | 340 | 390 | 500 |               |
| Diode capacitance               | $C_T$      | $V_R = 0, f = 1 \text{ MHz}$                |     |     | 1   | pF            |
| Differential forward resistance | $R_F$      | $I_F = 5 \text{ mA}, f = 10 \text{ KHz}$    |     |     | 10  | $\Omega$      |

## ■ Marking

| Type    | BAT68-04W | BAT68-05W | BAT68-06W |
|---------|-----------|-----------|-----------|
| Marking | 84s       | 85s       | 86s       |