

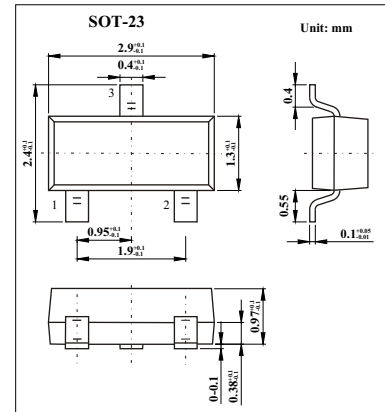
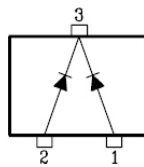
KDS184-RTK

Features

Low forward voltage : $V_{F(3)} = 0.9 \text{ V(Typ)}$

Fast reverse recovery time : $t_{rr} = 1.6\text{ns (MAX.)}$

Small total capacitance : $C_T = 0.9\text{pF(Typ)}$



Absolute Maximum Ratings $T_a = 25$

| Parameter | Symbol | Rating | Unit |
|--------------------------------|-----------|-------------|------|
| Maximum (peak) reverse voltage | V_{RM} | 85 | V |
| Reverse voltage | V_R | 80 | V |
| Average forward current | I_O | 100 | mA |
| Maximum (peak) forward current | I_{FM} | 300 | mA |
| Surge current (10 ms) | I_{FSM} | 2 | A |
| Power dissipation | P_D | 150 | mW |
| Junction Temperature | T_j | 150 | |
| Storage Temperature | T_{stg} | -55 to +150 | |

Electrical Characteristics $T_a = 25$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|-----------------------|------------|--------------------------------|-----|------|------|---------------|
| Forward voltage | $V_{F(1)}$ | $I_F = 1 \text{ mA}$ | | 0.6 | | V |
| | $V_{F(2)}$ | $I_F = 10 \text{ mA}$ | | 0.72 | | |
| | $V_{F(3)}$ | $I_F = 100 \text{ mA}$ | | 0.90 | 1.20 | |
| Reverse current | I_R | $V_R = 80 \text{ V}$ | | | 0.5 | μA |
| Total capacitance | C_T | $V_R = 0, f = 1.0 \text{ MHz}$ | | 0.9 | 3.0 | pF |
| Reverse recovery time | t_{rr} | $I_F = 10 \text{ mA}$ | | 1.6 | 4.0 | ns |

Marking

| | |
|---------|----|
| Marking | B3 |
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■ Typical Characteristics

