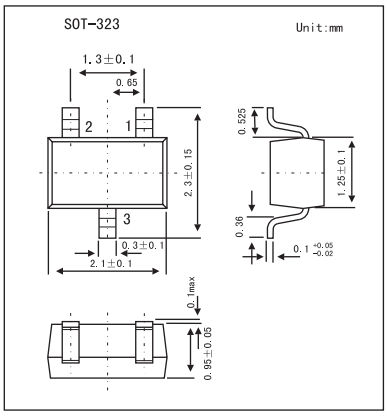
# 1SS303




## ■ Features

- Low capacitance: Ct = 2.5 pF TYP.
- High speed switching: trr = 4.0 ns MAX.
- Wide applications including switching, limitter, clipper.
- Double diode configuration assures economical use.

## ■ Absolute Maximum Ratings Ta = 25℃

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Peak Reverse Voltage | $V_{RM}$ | 75 | V |
| DC Reverse Voltage | $V_R$ | 50 | V |
| Surge Current (1 μ s) Note 1 | $I_{FSM}$ | 6.0 | A |
| Surge Current (1 μ s) | $I_{FSM}$ | 4.0 | A |
| Peak Forward Current Note 1 | $I_{FM}$ | 450 | mA |
| Peak Forward Current | $I_{FM}$ | 300 | mA |
| Average Rectified Current (Note 1) | $I_O$ | 150 | mA |
| Average Rectified Current | $I_O$ | 100 | mA |
| Junction Temperature | $T_j$ | 150 | ℃ |
| Storage Temperature Range | $T_{stg}$ | -55 to +150 | ℃ |
| Junction to Ambient (Note 1) | $R_{th(j-a)}$ | 1.0 | ℃/mW |
| Junction to Ambient | $R_{th(j-a)}$ | 0.85 | ℃/mW |

Note

1.Both diodes loaded simultaneously.

## ■ Electrical Characteristics Ta = 25℃

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Forward voltage | $V_{F(1)}$ | $I_F$ = 1 mA | | 0.72 | 1.0 | V |
| | $V_{F(2)}$ | $I_F$ = 50 mA | | 0.88 | 1.1 | |
| | $V_{F(3)}$ | $I_F$ = 100 mA | | 1.0 | 1.2 | |
| Reverse current | $I_{R(1)}$ | $V_R$ = 50 V | | | 0.1 | μ A |
| Capacitance | $C_t$ | $V_R$ = 0, f = 1.0 MHz | | 2.5 | 4.0 | pF |
| Reverse recovery time | $t_{rr}$ | | | | 4.0 | ns |

## ■ Marking

| Marking | A4 |
|---|---|