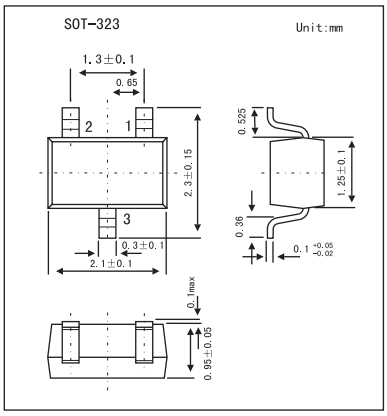
TY Semicondutor®

**Product specification**

# 1SS312




## ■ Features

- Small packag
- Small Total capacitance: $C_T$ = 1.2pF(Max)
- Low series resistance: $r_s$ = 0.6 Ω (Typ.)

## ■ Absolute Maximum Ratings Ta = 25℃

| Parameter | Symbol | Rating | Unit |
|---|---|---|---|
| Reverse Voltage | $V_R$ | 30 | V |
| Forward Current | $I_F$ | 50 | mA |
| Junction temperature | $T_J$ | 125 | ℃ |
| Storage temperature range | $T_{stg}$ | -55 to +125 | ℃ |

## ■ Electrical Characteristics Ta = 25℃

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Forward voltage | $V_F$ | $I_F$ = 2 mA | | | 0.85 | V |
| Reverse current | $I_R$ | $V_R$ =15 V | | | 0.1 | μ A |
| Reverse voltage | $V_R$ | $I_R$ =1 μ A | 30 | | | V |
| Total capacitance | $C_T$ | $V_R$=6 V,f=1MHz | | 0.8 | 1.2 | pF |
| Series resistance | $r_s$ | $I_F$ = 2 mA, f = 100 MHz | | 0.6 | 0.9 | Ω |

## ■ Marking

| Marking | BF |
|---|---|