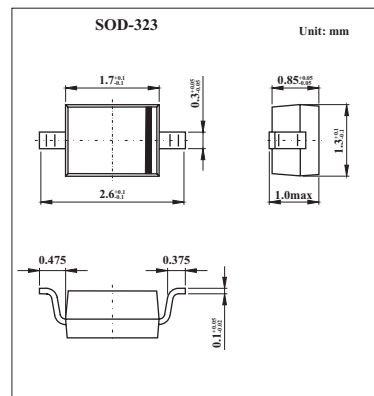


1SV302

■ Features

- High Capacitance Ratio: $C_{2V}/C_{25V}=17.5$ (Typ.)
- Low Series Resistance: $r_s=1.05 \Omega$ (Typ.)
- Useful for Small Size Tuner



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

| Parameter | Symbol | Value | Unit |
|---------------------------|-----------|--------------------------|------------------|
| Reverse Voltage | V_R | 30 | V |
| Peak Reverse Voltage | V_{RM} | 35($R_L = 10K \Omega$) | V |
| Junction Temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|-------------------|------------------|--|-----|------|------|----------|
| Reverse Voltage | V_R | $I_R = 1 \mu\text{A}$ | 30 | | | V |
| Reverse Current | I_R | $V_R = 28 \text{V}$ | | | 10 | nA |
| Capacitance | C_{2V} | $f = 1 \text{MHz}; V_R = 2 \text{V}$ | 42 | 47 | 51 | pF |
| | C_{25V} | $f = 1 \text{MHz}; V_R = 25 \text{V}$ | 2.1 | 2.6 | 3.1 | |
| Capacitance Ratio | C_{2V}/C_{25V} | | 17 | 17.5 | | |
| Series Resistance | r_s | $V_R = 5 \text{V}, f = 470 \text{MHz}$ | | 1.05 | 1.25 | Ω |

Note :

Available in matched group for capacitance to 2.5%.

$$\frac{C(\text{Max.})-C(\text{Min.})}{C(\text{Min.})} \leq 0.025$$

($V_R=2\sim 25\text{V}$)

■ Marking

| | |
|---------|----|
| Marking | TT |
|---------|----|