

TOSHIBA Diode Silicon Epitaxial Planar Type

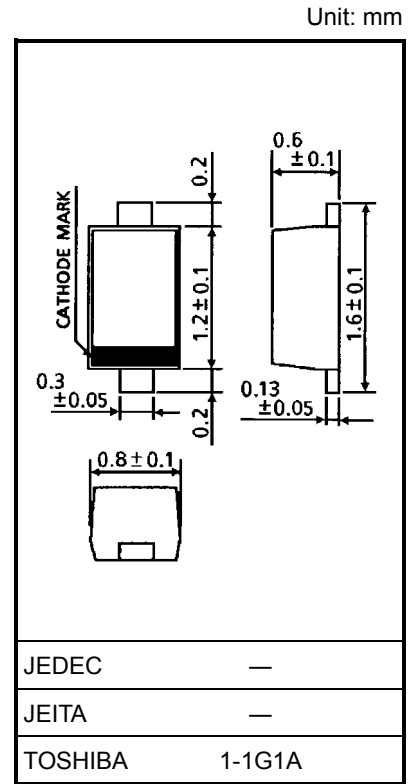
1SS381

VHF Tuner Band Switch Applications

- Small package
- Small total capacitance: $C_T = 1.2 \text{ pF}$ (max)
- Low series resistance: $r_s = 0.6 \text{ } \Omega$ (typ.)

Maximum Ratings (Ta = 25°C)

| Characteristics | Symbol | Rating | Unit |
|---------------------------|-----------|---------|------|
| Reverse voltage | V_R | 30 | V |
| Forward current | I_F | 100 | mA |
| Junction temperature | T_j | 125 | °C |
| Storage temperature range | T_{stg} | -55~125 | °C |



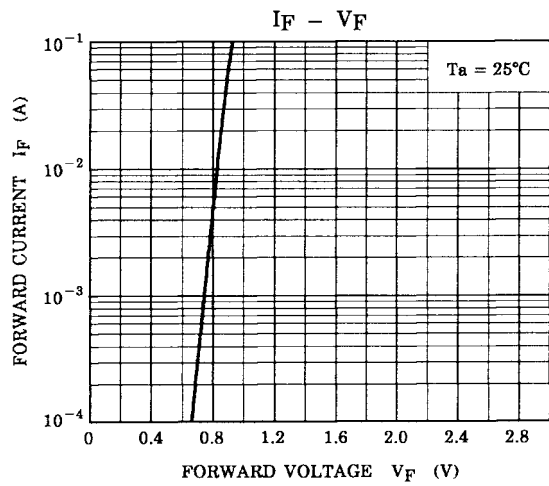
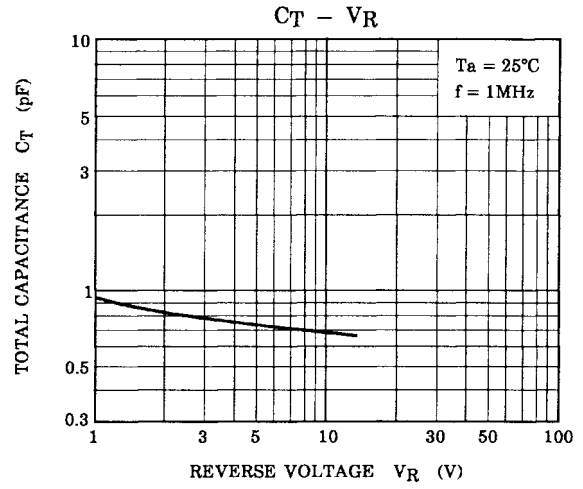
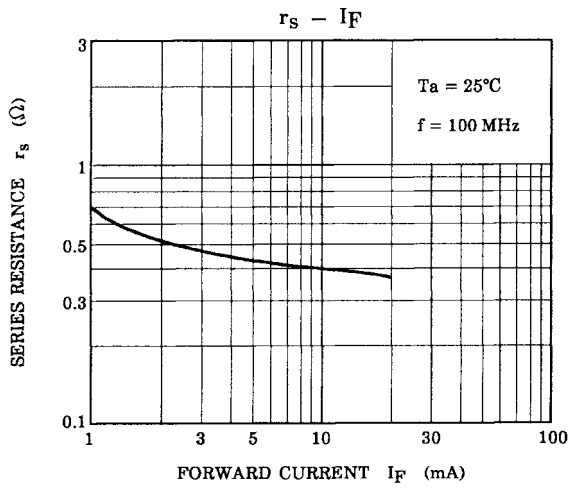
Electrical Characteristics (Ta = 25°C)

Weight: 0.0014 g (typ.)

| Characteristics | Symbol | Test Condition | Min | Typ. | Max | Unit |
|-------------------|--------|---|-----|------|------|---------------|
| Forward voltage | V_F | $I_F = 2 \text{ mA}$ | — | — | 0.85 | V |
| Reverse current | I_R | $V_R = 15 \text{ V}$ | — | — | 0.1 | μA |
| Reverse voltage | V_R | $I_R = 1 \text{ } \mu\text{A}$ | 30 | — | — | V |
| Total capacitance | C_T | $V_R = 6 \text{ V}, f = 1 \text{ MHz}$ | — | 0.7 | 1.2 | pF |
| Series resistance | r_s | $I_F = 2 \text{ mA}, f = 100 \text{ MHz}$ | — | 0.6 | 0.9 | Ω |

Marking





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