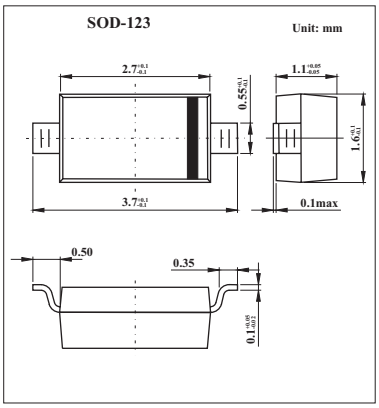
# Tuner Diodes

# BB721




## Features

- Silicon epitaxial planar capacitance diodes with very wide effective capacitance variation for tuning the whole range of UHF television bands.
- These diodes are available as singles or as matched sets of two or more units according to the tracking condition described in the table of characteristics.

## Absolute Maximum Ratings Ta = 25℃

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Reverse Voltage | $V_R$ | 32 | V |
| Ambient Temperature | $T_{amb}$ | 125 | ℃ |
| Storage Temperature Range | $T_S$ | -55 to +125 | ℃ |

## Electrical Characteristics Ta = 25℃

| Parameter | Symbol | Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse Breakdown Voltage | $V_{BR(R)}$ | $I_R$ = 100 μ A | 32 | | | V |
| Leakage Current | $I_R$ | $V_R$ = 30 V | | | 10 | nA |
| Capacitance | $C_{tot}$ | f = 1 MHz;$V_R$ = 28 V | 1.9 | | 2.3 | pF |
| | | f = 1 MHz;$V_R$ = 1 V | 17.5 | | 20 | |
| Effective Capacitance Ratio | $C_{d(1V)}/C_{d(28V)}$ | f = 1 MHz;$V_R$ = 1 to 28 V | 8.2 | | 9.8 | |
| Series Resistance | $r_s$ | f = 470 MHz, $C_{tot}$ = 14 pF | | 0.55 | | Ω |
| Series Inductance | $L_s$ | | | 2.5 | | nH |