

TOSHIBA Diode Silicon Epitaxial Pin Type

JDP3C04TU

VHF~UHF Band RF Attenuator Applications

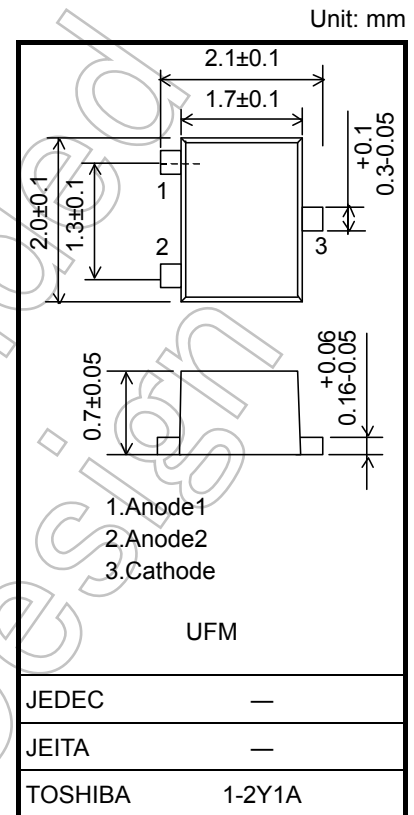
- Useful for small size package
- Low capacitance: $C_T = 0.3 \text{ pF}$ (typ.)
- Low series resistance: $r_s = 3.0 \text{ } \Omega$ (typ.)

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

| Characteristics | Symbol | Rating | Unit |
|---------------------------|-----------|------------|------------------|
| Reverse voltage | V_R | 50 | V |
| Forward current | I_F | 50 | mA |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature range | T_{stg} | -55 to 150 | $^\circ\text{C}$ |

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



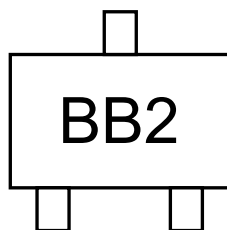
Weight: 6.6 mg (typ.)

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

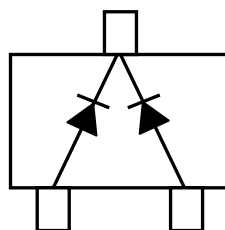
| Characteristics | Symbol | Test Condition | Min | Typ. | Max | Unit |
|-------------------|--------|--|-----|------|-----|---------------|
| Reverse voltage | V_R | $I_R = 10 \text{ } \mu\text{A}$ | 50 | — | — | V |
| Reverse current | I_R | $V_R = 50 \text{ V}$ | — | — | 0.1 | μA |
| Forward voltage | V_F | $I_F = 50 \text{ mA}$ | — | 0.92 | 1.0 | V |
| Capacitance | C_T | $V_R = 1 \text{ V}, f = 1 \text{ MHz}$ | — | 0.3 | — | pF |
| Series resistance | r_s | $I_F = 10 \text{ mA}, f = 100 \text{ MHz}$ | — | 3.0 | — | Ω |

Note: Signal level when capacitance is measured: $V_{sig} = 100 \text{ mV}_{rms}$

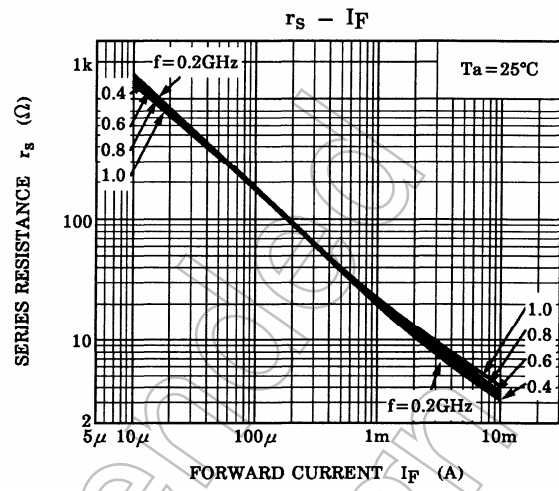
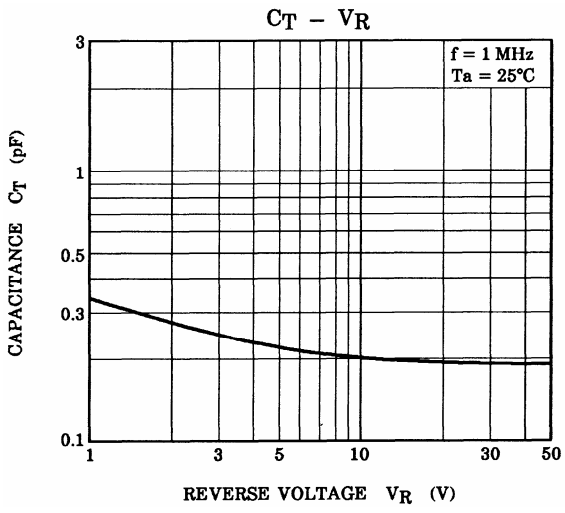
Marking



Pin Assignment



Start of commercial production
2005-12



Not Recommended for New Designs

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