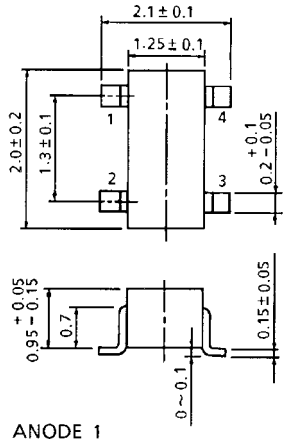
TOSHIBA DIODE Silicon Epitaxial Planar Type

# JDV4P08U

VCO for UHF Band Radio

- High Capacitance Ratio: $C_{1V}/C_{4V}$ = 3.0 (typ.)
- Low Series Resistance : $r_s$ = 0.35 Ω (typ.)
- The device incorporates two diodes which have no common pins, and is suitable for high-density mounting.

Unit: mm




1. ANODE 1
2. ANODE 2
3. CATHODE 2
4. CATHODE 1

USQ

| | |
|---|---|
| JEDEC | — |
| JEITA | — |
| TOSHIBA | 1-2U1A |

Weight: g (typ.)

## Maximum Ratings (Ta = 25°C)

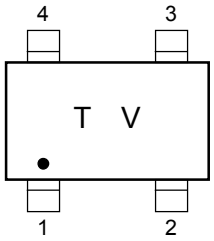
| Characteristics | Symbol | Rating | Unit |
|---|---|---|---|
| Reverse voltage | $V_R$ | 10 | V |
| Junction temperature | $T_j$ | 125 | °C |
| Storage temperature range | $T_{stg}$ | −55~125 | °C |

## Electrical Characteristics (Ta = 25°C)

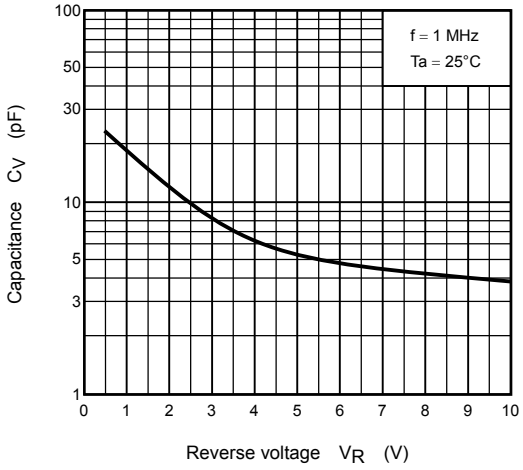
| Characteristics | Symbol | Test Condition | Min | Typ. | Max | Unit |
|---|---|---|---|---|---|---|
| Reverse voltage | $V_R$ | $I_R$ = 1 μA | 10 | — | — | V |
| Reverse current | $I_R$ | $V_R$ = 10 V | — | — | 3 | nA |
| Capacitance | $C_{1V}$ | $V_R$ = 1 V, f = 1 MHz | 17.3 | 18.3 | 19.3 | pF |
| | $C_{4V}$ | $V_R$ = 4 V, f = 1 MHz | 5.3 | 6.1 | 6.6 | |
| Capacitance ratio | $C_{1V}/C_{4V}$ | — | 2.8 | 3.0 | — | — |
| Series resistance | $r_s$ | $V_R$ = 1 V, f = 470 MHz | — | 0.35 | 0.5 | Ω |

Note: Signal level when capacitance is measured: $V_{sig}$ = 500 mVrms

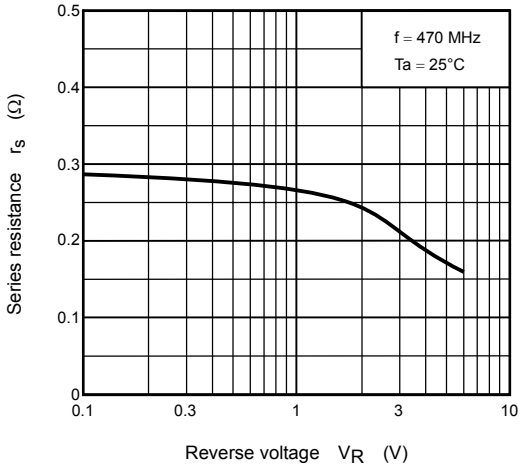
**Marking**



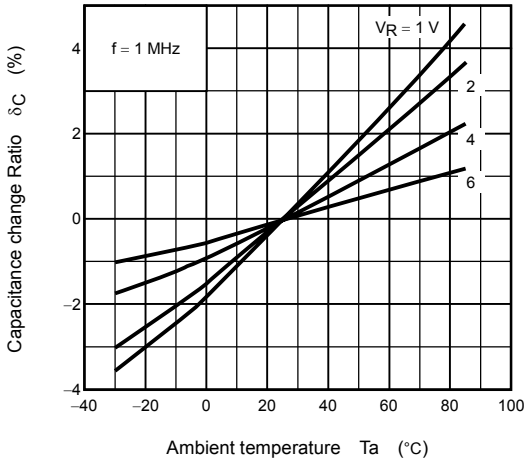
$C_V - V_R$




$r_s - V_R$




$\delta_C - Ta$



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