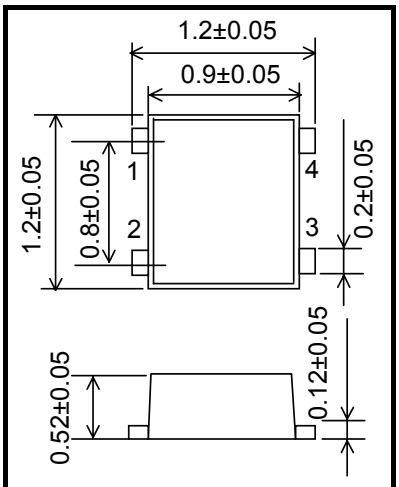
TOSHIBA DIODE Silicon Epitaxial Planar Type

JDV4P08T

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. ANODE1
2. ANODE2
3. CATHODE2
4. CATHODE1

TESQ	
JEDEC	—
JEITA	—
TOSHIBA	1-1M1A

Weight: 0.0015 g (typ.)

Maximum Ratings (Ta = 25°C)

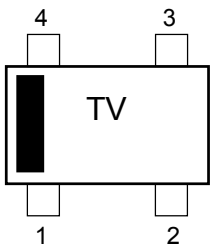
Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	10	V
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	−55~150	°C

Electrical Characteristics (Ta = 25°C)

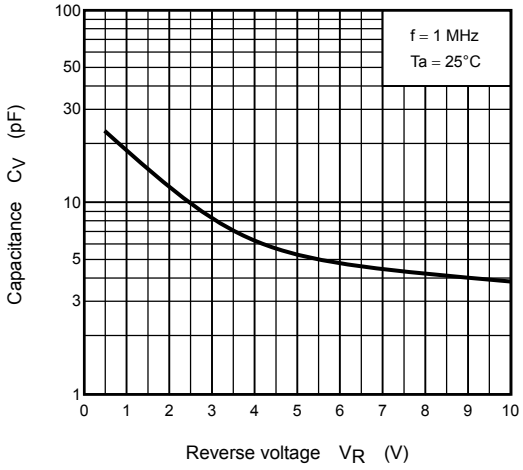
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	I_R = 1 μA	10	—	—	V
Reverse current	I_R	V_R = 10 V	—	—	3	nA
Capacitance	C_{1V}	V_R = 1 V, f = 1 MHz	17.3	18.3	19.3	pF
	C_{4V}	V_R = 4 V, f = 1 MHz	5.3	6.1	6.6	
Capacitance ratio	C_{1V}/C_{4V}	—	2.8	3.0	—	—
Series resistance	r_s	V_R = 1 V, f = 470 MHz	—	0.35	0.42	Ω

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

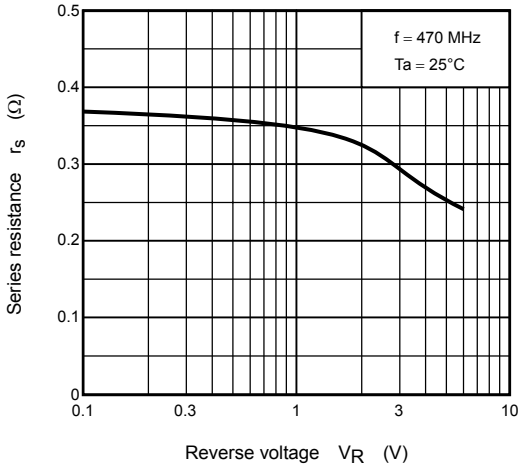
Marking



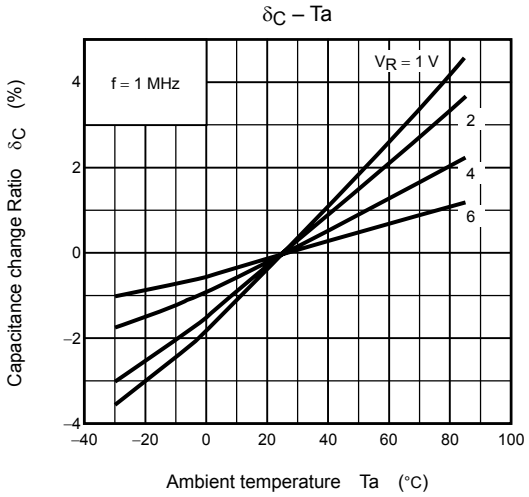
$C_V – V_R$



$r_s – V_R$



$\delta_C – Ta$



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