Unit: mm

TOSHIBA

TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

1SV229

VCO for UHF Band Radio

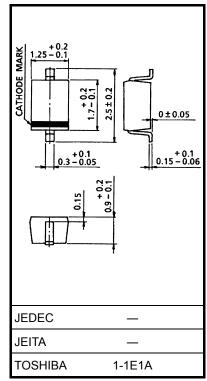
- Ultra low series resistance: $r_s = 0.2 \Omega$ (typ.)
- Useful for small size set

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	15	V
Junction temperature	Тј	125	°C
Storage temperature range	T _{stg}	-55 to 125	°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: 0.004 g (typ.)

5.5

2.0

6

2.5

0.2

Max

_

3

16

6.5

0.4

Unit V

nA

pF

pF

Ω

Characteristics Symbol **Test Condition** Min Тур. Reverse voltage 15 V_R $I_R = 1 \mu A$ ____ Reverse current I_R V_R = 15 V Capacitance C_{2V} V_R = 2 V, f = 1 MHz 14 15

C_{10V}

C_{2V} / C_{10V}

rs

Electrical Characteristics (Ta = 25°C)

Marking



Capacitance

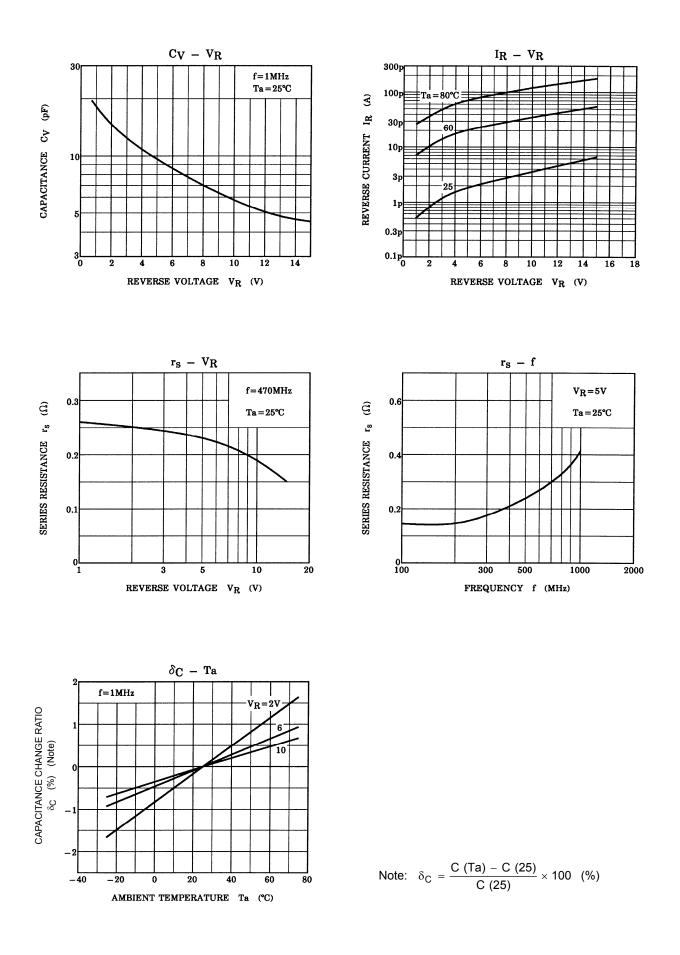
Capacitance ratio

Series resistance

V_R = 10 V, f = 1 MHz

V_R = 5 V, f = 470 MHz

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