Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

1SV322

TCXO/VCO

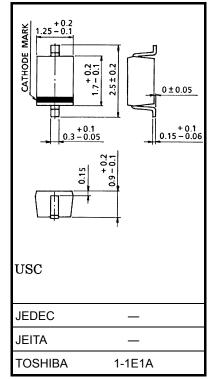
- High capacitance ratio: $C_{1V} / C_{4V} = 4.3$ (typ.)
- Low series resistance: $r_s = 0.4 \Omega$ (typ.)
- Useful for small size tuner.

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	10	V
Junction temperature	Tj	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).

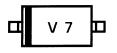


Weight: 0.004 g (typ.)

Electrical Characteristics (Ta = 25°C) Characteristics Symbol **Test Condition** Min Max Unit Тур. Reverse voltage V_{R} $I_R = 1 \ \mu A$ 10 ____ Reverse current V_R = 10 V ____ 3 nA I_R $V_R = 1 V, f = 1 MHz$ 29.5 pF Capacitance C_{1V} 26.5 ____ Capacitance V_R = 4 V, f = 1 MHz 6.0 7.1 pF C_{4V} Capacitance ratio C_{1V} / C_{4V} 4.0 4.3 0.4 Series resistance V_R = 4 V, f = 100 MHz 08 rs

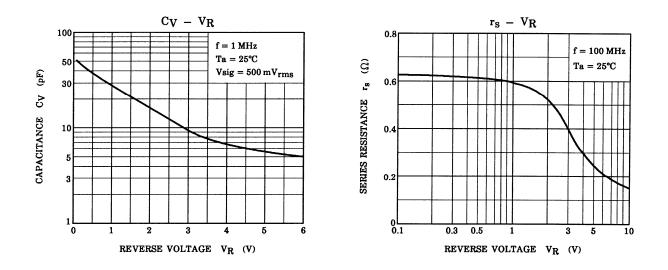
Note: Signal level when capacitance is measured: $V_{sig} = 500 \text{ mVrms}$

Marking



V

Ω



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