

TOSHIBA Diode Silicon Epitaxial Planar Type

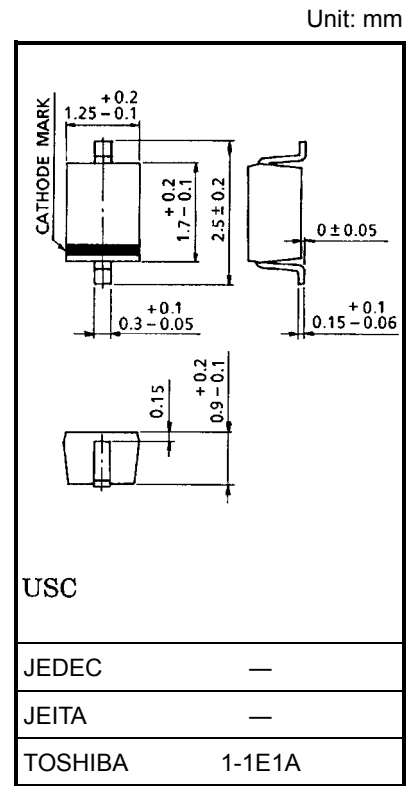
# 1SV322

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.

### 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



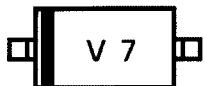
Weight: 0.004 g (typ.)

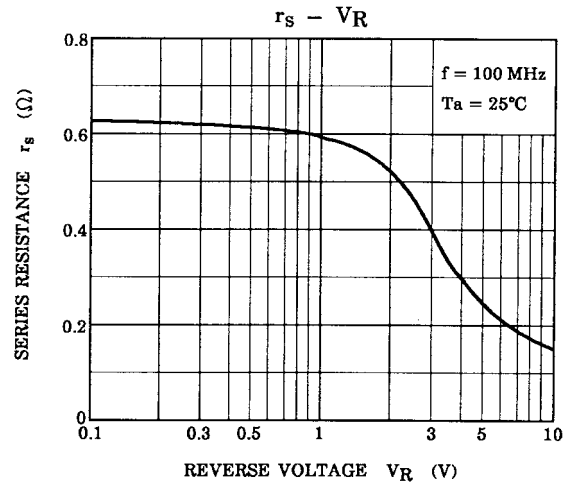
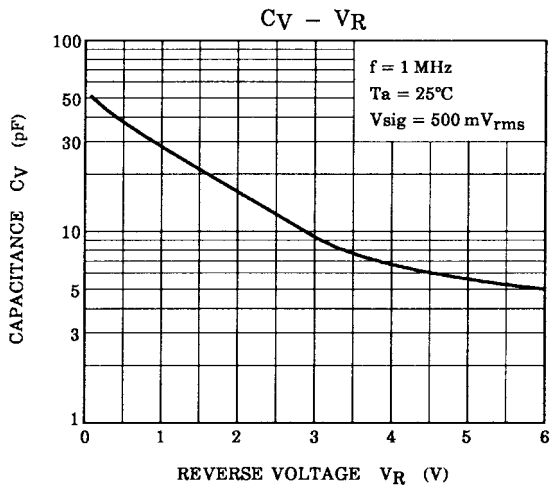
### Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	$V_R$	$I_R = 1 \mu A$	10	—	—	V
Reverse current	$I_R$	$V_R = 10 V$	—	—	3	nA
Capacitance	$C_{1V}$	$V_R = 1 V, f = 1 MHz$	26.5	—	29.5	pF
Capacitance	$C_{4V}$	$V_R = 4 V, f = 1 MHz$	6.0	—	7.1	pF
Capacitance ratio	$C_{1V}/C_{4V}$	—	4.0	4.3	—	—
Series resistance	$r_s$	$V_R = 4 V, f = 100 MHz$	—	0.4	0.8	$\Omega$

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

### Marking





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