

TOSHIBA Diode Silicon Epitaxial Planar Type

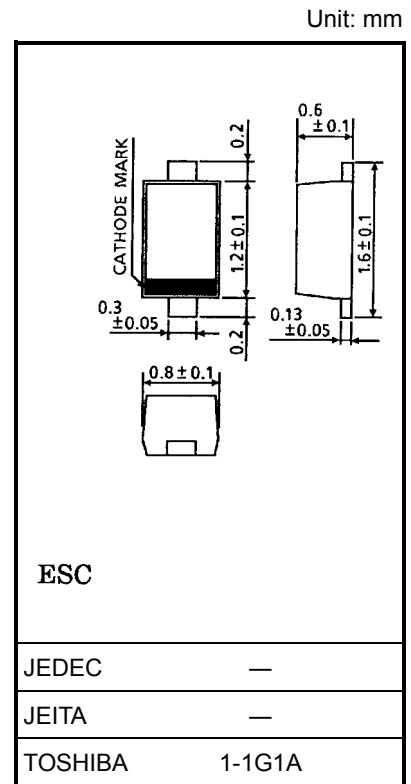
1SV323

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: 0.0014 g (typ.)

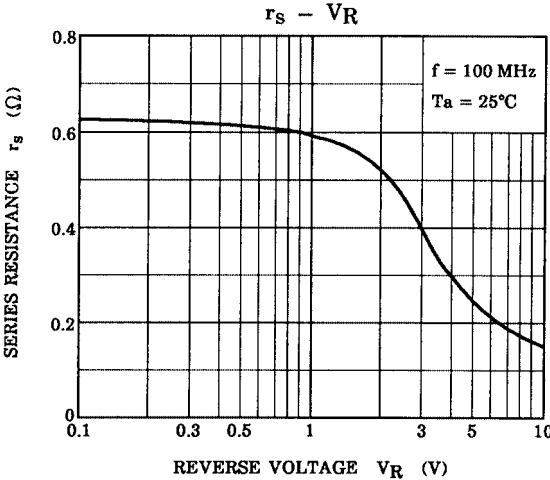
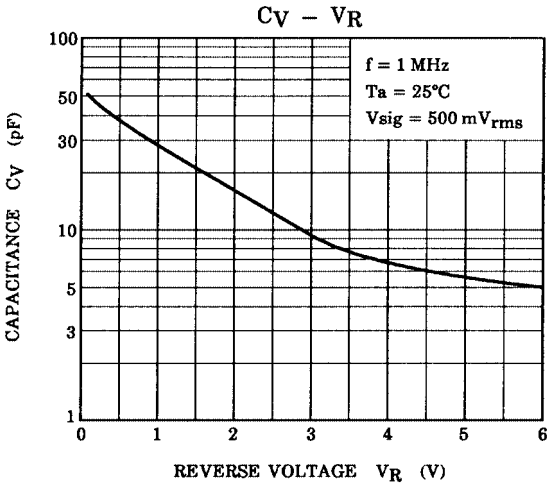
Electrical Characteristics (Ta = 25°C)

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	Ω

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

Marking





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