

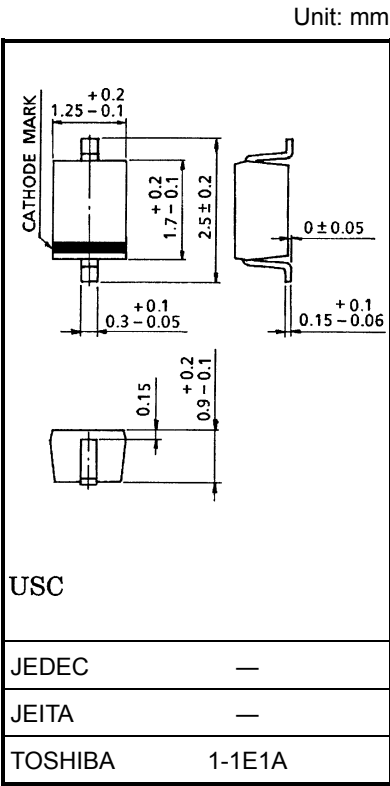
1SV304

VCO for VHF Band Radio

- Small package
- High capacitance ratio: $C_1 \text{ V}/C_4 \text{ V} = 3.0 \text{ (typ.)}$
- Low series resistance: $r_s = 0.27 \text{ } \Omega \text{ (typ.)}$

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



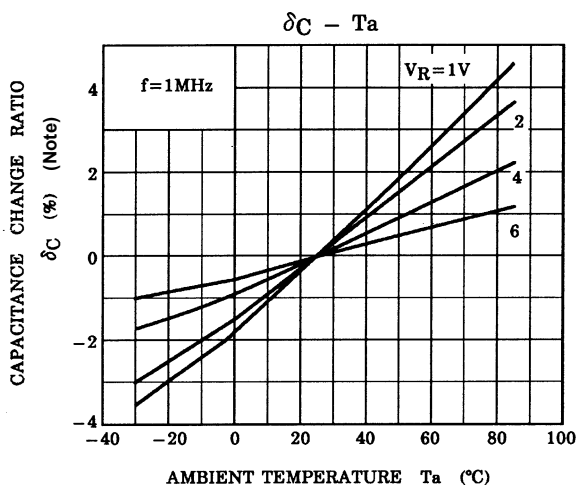
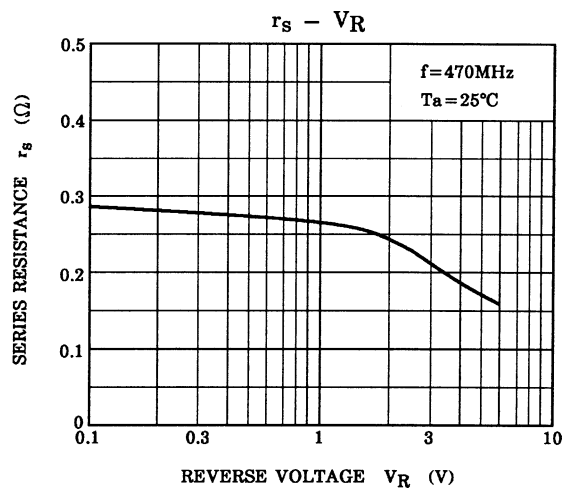
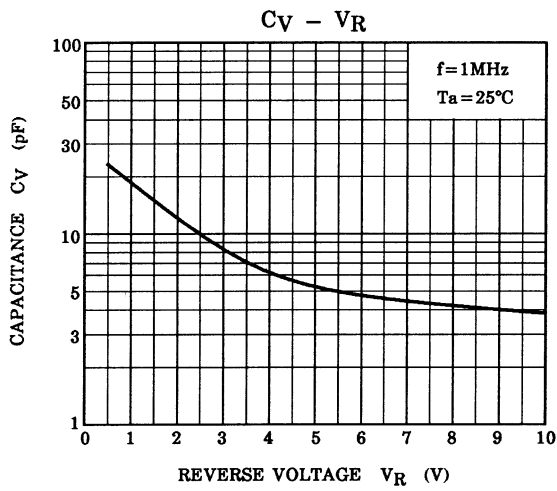
Weight: 0.004 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 1 \text{ } \mu\text{A}$	10	—	—	V
Reverse current	I_R	$V_R = 10 \text{ V}$	—	—	3	nA
Capacitance	$C_1 \text{ V}$	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	17.3	18.3	19.3	pF
Capacitance	$C_4 \text{ V}$	$V_R = 4 \text{ V}, f = 1 \text{ MHz}$	5.3	6.1	6.6	pF
Capacitance ratio	$C_1 \text{ V}/C_4 \text{ V}$	—	2.8	3	—	—
Series resistance	r_s	$V_R = 1 \text{ V}, f = 470 \text{ MHz}$	—	0.27	0.32	Ω

Marking





Note: $\delta_C = \frac{C(T_a) - C(25)}{C(25)} \times 100 \text{ (%)}$

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