

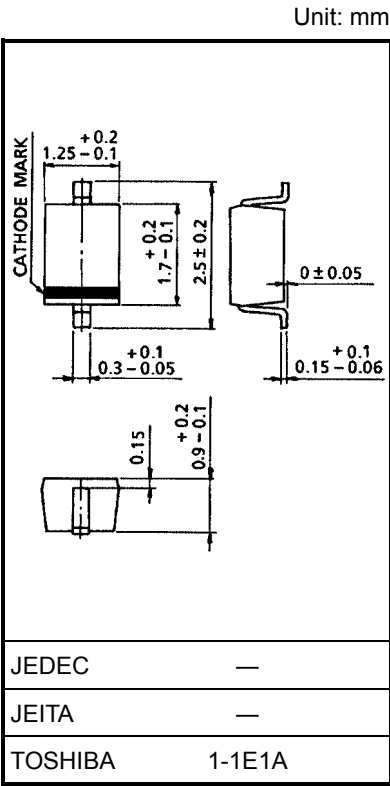
1SV270

VCO for UHF Band Radio

- High capacitance ratio: $C1\text{ V}/C4\text{ V} = 2.0$ (typ.)
- Low series resistance: $r_s = 0.28\ \Omega$ (typ.)
- Small package

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



Electrical Characteristics (Ta = 25°C)

Weight: 0.004 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 1\ \mu\text{A}$	10	—	—	V
Reverse current	I_R	$V_R = 10\text{ V}$	—	—	3	nA
Capacitance	$C1\text{ V}$	$V_R = 1\text{ V}, f = 1\text{ MHz}$	15	16	17	pF
Capacitance	$C4\text{ V}$	$V_R = 4\text{ V}, f = 1\text{ MHz}$	7.3	8.0	8.7	pF
Capacitance ratio	$C1\text{ V}/C4\text{ V}$	—	1.8	2.0	—	—
Series resistance	r_s	$V_R = 1\text{ V}, f = 470\text{ MHz}$	—	0.28	0.5	Ω

Marking

