

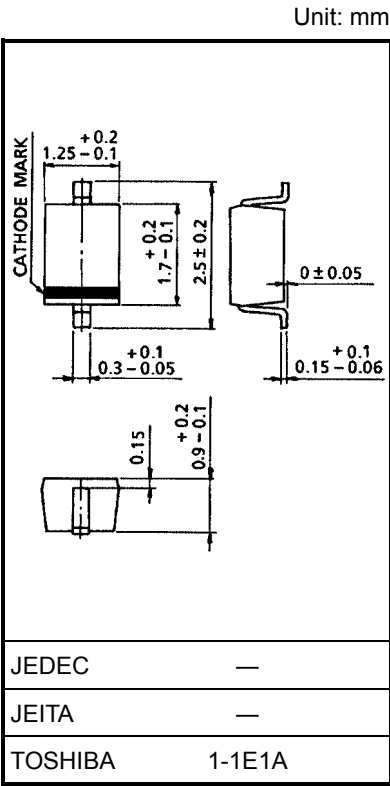
1SV277

VCO for UHF Band Radio

- High capacitance ratio: $C_1 \text{ V}/C_4 \text{ V} = 2.3$ (typ.)
- Low series resistance: $r_s = 0.42 \text{ } \Omega$ (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



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	$C_1 \text{ V}$	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	4.0	4.5	4.9	pF
Capacitance	$C_4 \text{ V}$	$V_R = 4 \text{ V}, f = 1 \text{ MHz}$	1.85	2.0	2.35	pF
Capacitance ratio	$C_1 \text{ V}/C_4 \text{ V}$	—	2.0	2.3	—	—
Series resistance	r_s	$V_R = 1 \text{ V}, f = 470 \text{ MHz}$	—	0.42	0.55	Ω

Marking

