

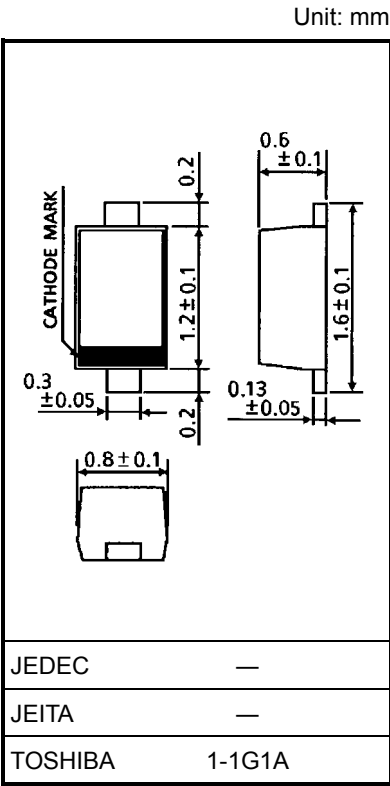
1SV280

VCO for UHF Band Radio

- High capacitance ratio: $C_2 \text{ V}/C_{10} \text{ V} = 2.4$ (typ.)
- Low series resistance: $r_s = 0.44 \text{ } \Omega$ (typ.)
- Useful for small size tuner.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	15	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	$I_R = 1 \text{ } \mu\text{A}$	15	—	—	V
Reverse current	I_R	$V_R = 15 \text{ V}$	—	—	3	nA
Capacitance	$C_2 \text{ V}$	$V_R = 2 \text{ V}, f = 1 \text{ MHz}$	3.8	—	4.7	pF
Capacitance	$C_{10} \text{ V}$	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$	1.5	—	2.0	pF
Capacitance ratio	$C_2 \text{ V}/C_{10} \text{ V}$	—	2.0	2.4	—	—
Series resistance	r_s	$V_R = 1 \text{ V}, f = 470 \text{ MHz}$	—	0.44	0.6	Ω

Marking

