

TOSHIBA Diode Silicon Epitaxial Planar Type

1SV328

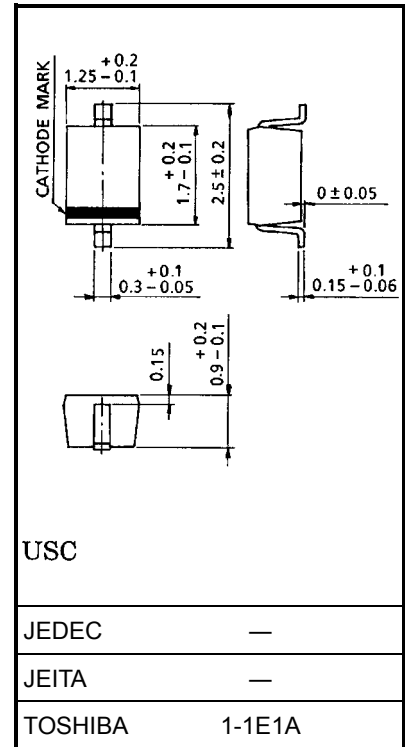
VCO for UHF Band Radio

- High capacitance ratio: $C_1/V/C_4/V = 2.8$ (typ.)
- Low series resistance: $r_s = 0.55\ \Omega$ (typ.)
- Useful for small size tuner.

Maximum Ratings ($T_a = 25^\circ\text{C}$)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	10	V
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55~125	$^\circ\text{C}$

Unit: mm



Weight: 0.004 g (typ.)

Electrical Characteristics ($T_a = 25^\circ\text{C}$)

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	C_1/V	$V_R = 1\ \text{V}, f = 1\ \text{MHz}$	5.7	—	6.7	pF
Capacitance	C_4/V	$V_R = 4\ \text{V}, f = 1\ \text{MHz}$	1.85	—	2.45	pF
Capacitance ratio	$C_1/V/C_4/V$	—	2.7	2.8	—	—
Series resistance	r_s	$V_R = 1\ \text{V}, f = 470\ \text{MHz}$	—	0.55	0.7	Ω

Note: Signal level when capacitance is measured: $V_{sig} = 100\ \text{mVrms}$

Marking

