

# 1SV328

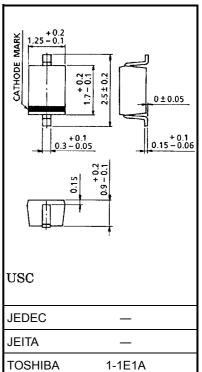
#### VCO for UHF Band Radio

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- 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 (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	10	V
Junction temperature	Тj	125	°C
Storage temperature range	T <sub>stg</sub>	-55~125	°C



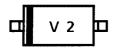
Weight: 0.004 g (typ.)

#### **Electrical Characteristics (Ta = 25°C)**

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V <sub>R</sub>	$I_R = 1 \ \mu A$	10	_		V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 10 V	_	_	3	nA
Capacitance	C <sub>1 V</sub>	V <sub>R</sub> = 1 V, f = 1 MHz	5.7	_	6.7	pF
Capacitance	C <sub>4 V</sub>	V <sub>R</sub> = 4 V, f = 1 MHz	1.85	_	2.45	pF
Capacitance ratio	C <sub>1 V</sub> /C <sub>4 V</sub>		2.7	2.8	_	_
Series resistance	r <sub>s</sub>	V <sub>R</sub> = 1 V, f = 470 MHz	_	0.55	0.7	Ω

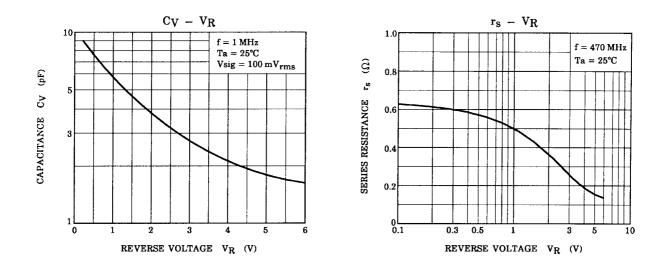
Note: Signal level when capacitance is measured: Vsig = 100 mVrms

#### Marking



Unit: mm

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