

TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

1SV229

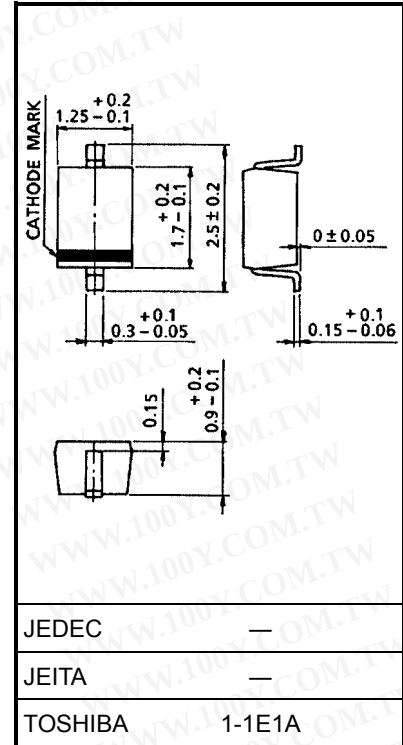
VCO for UHF Band Radio

Unit: mm

- Ultra low series resistance: $r_s = 0.2 \Omega$ (typ.)
- Useful for small size set

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

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	15	V
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature range	T_{stg}	-55~125	$^\circ\text{C}$

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

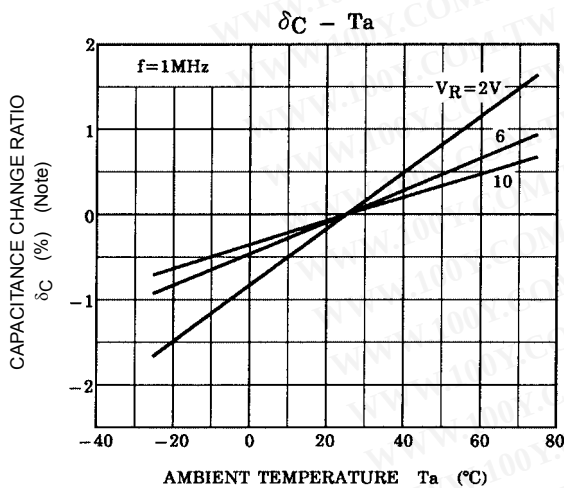
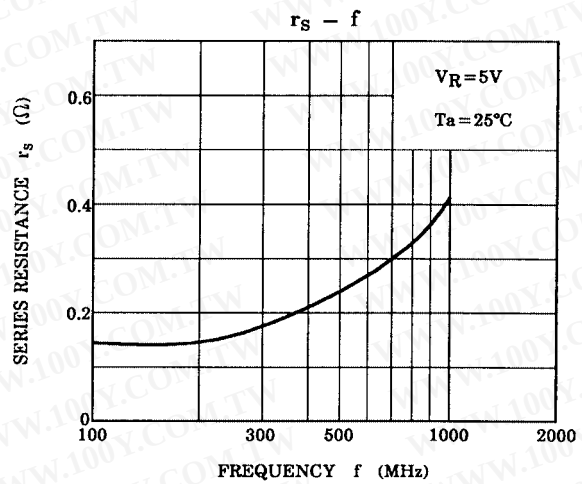
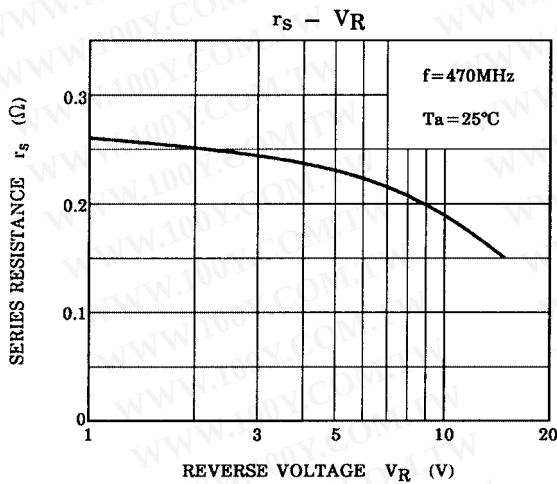
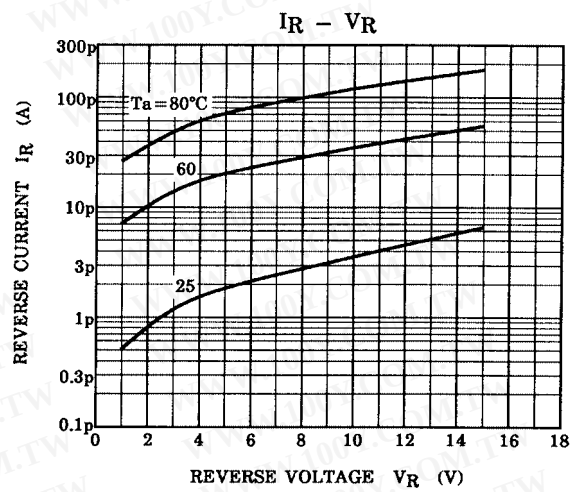
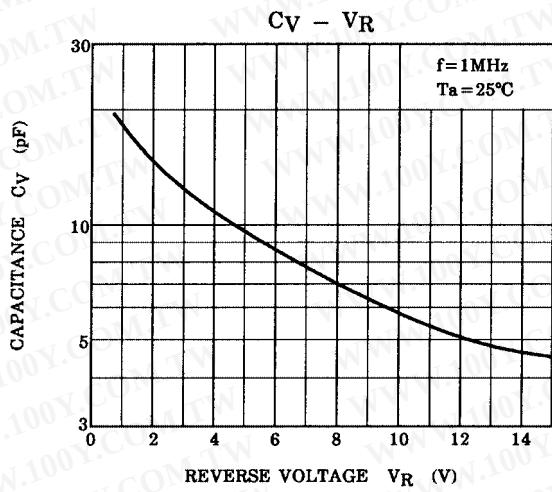
Weight: 0.004 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 1 \mu\text{A}$	15	—	—	V
Reverse current	I_R	$V_R = 15 \text{ V}$	—	—	3	nA
Capacitance	$C_{2 \text{ V}}$	$V_R = 2 \text{ V}, f = 1 \text{ MHz}$	14	15	16	pF
Capacitance	$C_{10 \text{ V}}$	$V_R = 10 \text{ V}, f = 1 \text{ MHz}$	5.5	6	6.5	pF
Capacitance ratio	$C_{2 \text{ V}}/C_{10 \text{ V}}$	—	2.0	2.5	—	—
Series resistance	r_s	$V_R = 5 \text{ V}, f = 470 \text{ MHz}$	—	0.2	0.4	Ω

Marking



勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



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Note: $\delta C = \frac{C(T_a) - C(25)}{C(25)} \times 100$ (%)

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