

1SV229

VCO for UHF Band Radio

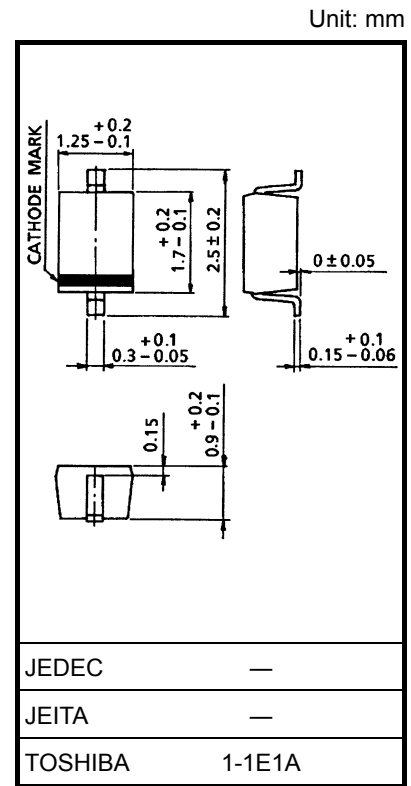
- Ultra low series resistance: $r_s = 0.2 \Omega$ (typ.)
- Useful for small size set

Absolute 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 to 125	°C

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

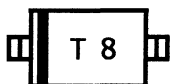


Weight: 0.004 g (typ.)

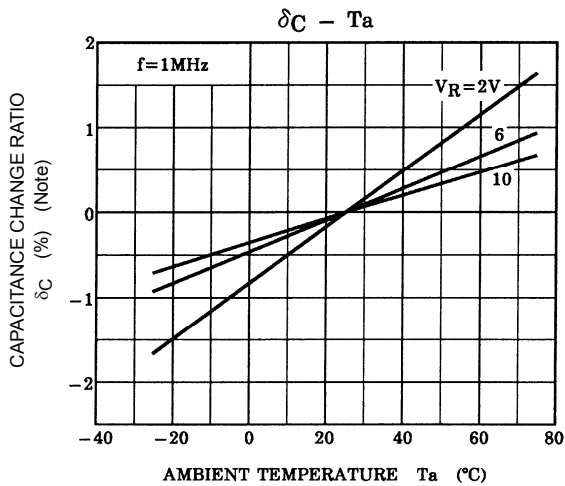
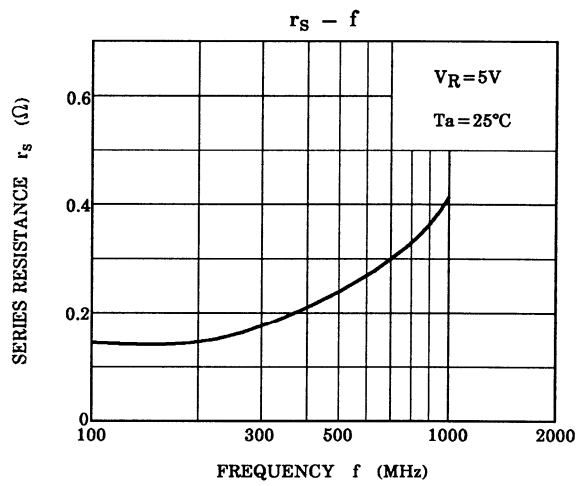
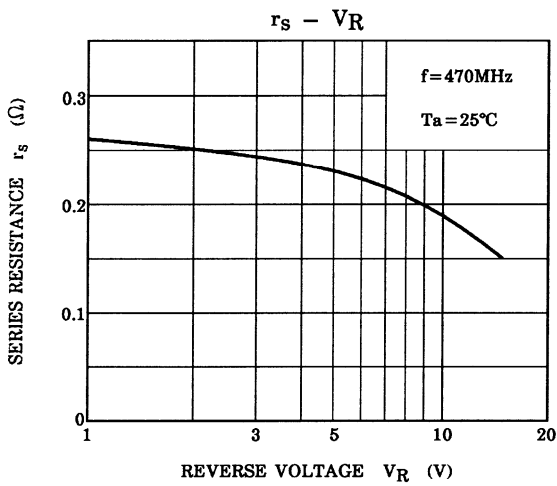
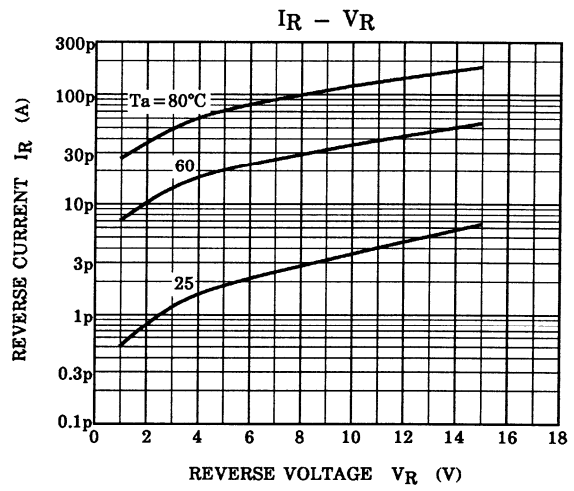
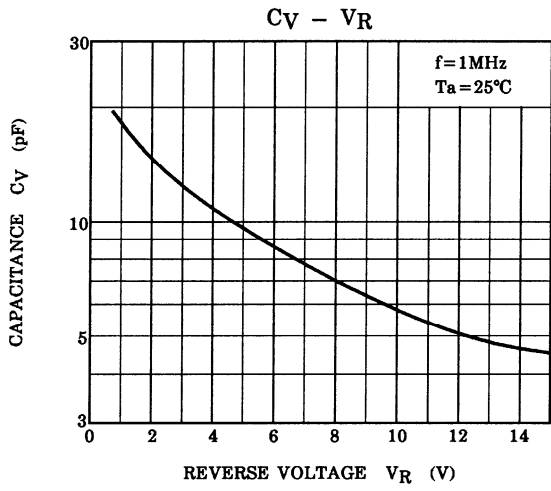
Electrical Characteristics (Ta = 25°C)

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

Marking



Start of commercial production
1988-06



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

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Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

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