

# 1SV279

## VCO for V/UHF Band Radio

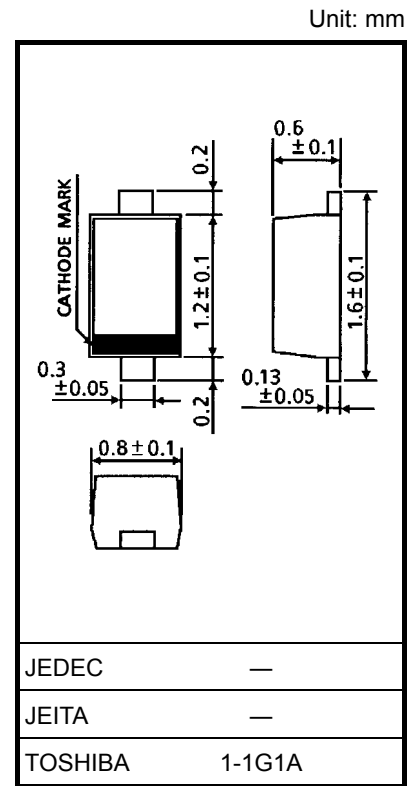
- High capacitance ratio:  $C_{2V} / C_{10V} = 2.5$  (typ.)
- Low series resistance:  $r_s = 0.2 \Omega$  (typ.)
- Useful for small size tuner.

### 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).

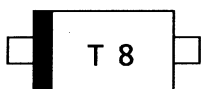


Weight: 0.0014 g (typ.)

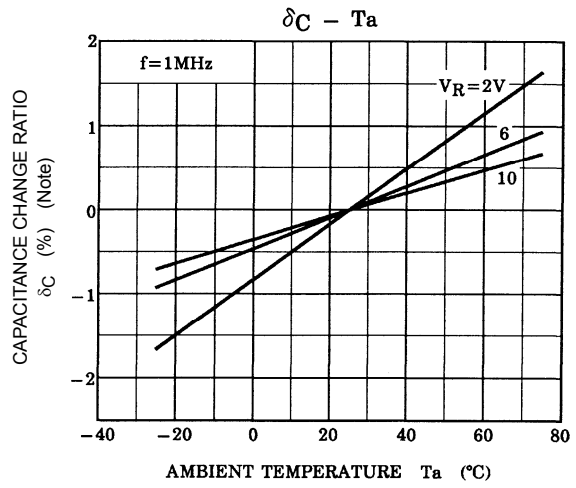
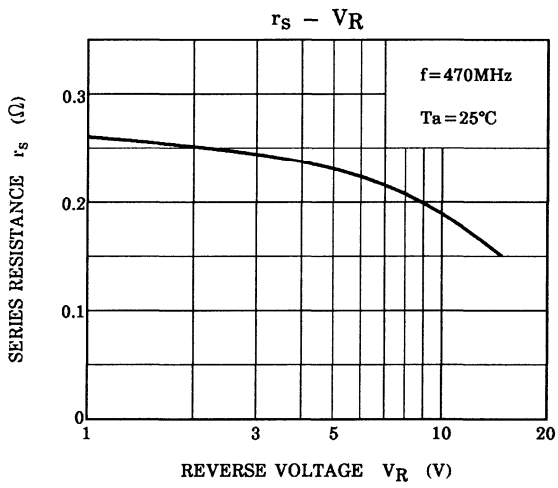
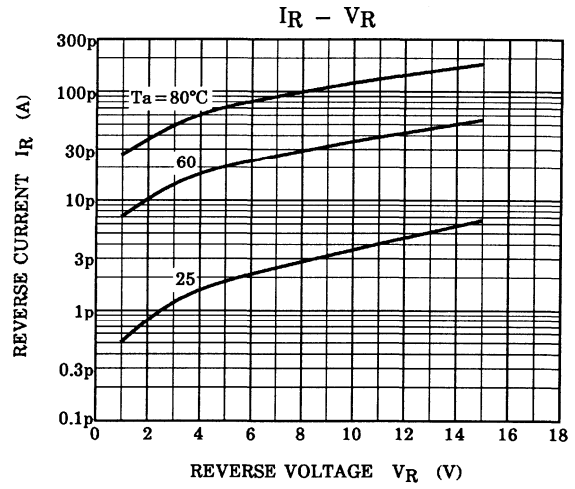
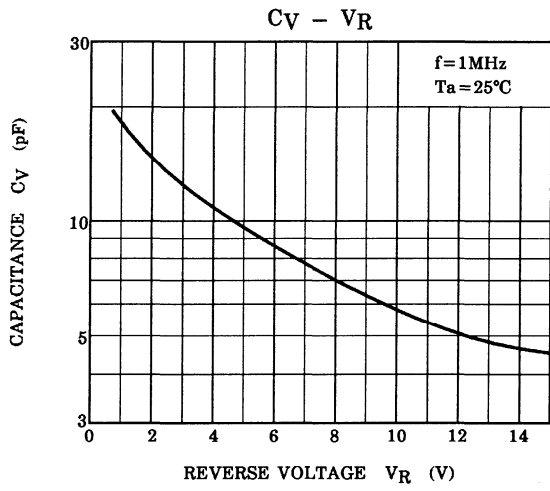
### Electrical Characteristics (Ta = 25°C)

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	—	16	pF
Capacitance	$C_{10V}$	$V_R = 10 V, f = 1 MHz$	5.5	—	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	$\Omega$

### Marking



Start of commercial production  
1994-07



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

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Тел: +7 (812) 336 43 04 (многоканальный)  
Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)