Unit: mm

TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

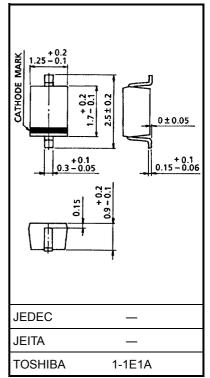
1SV276

VCO for UHF Band Radio

- High capacitance ratio: $C_1 V/C_4 V = 2.0$ (typ.)
- Low series resistance: $r_s = 0.22 \Omega$ (typ.)
- Small package

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	10	V
Junction temperature	Тj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.004 g (typ.)

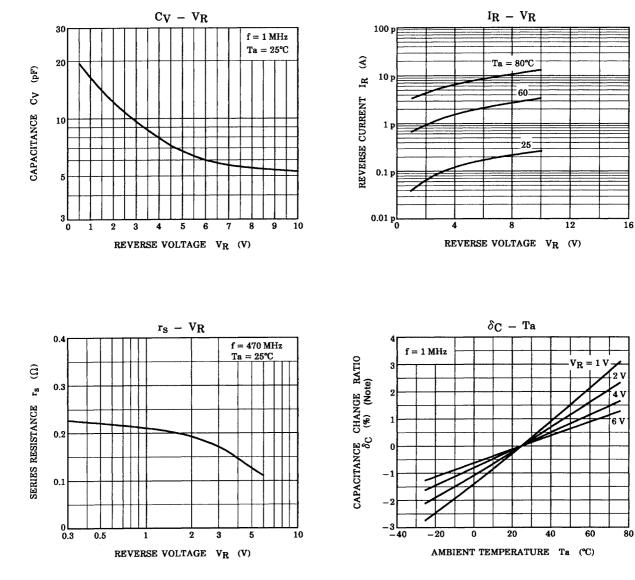
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V _R	$I_R = 1 \ \mu A$	10		_	V
Reverse current	I _R	V _R = 10 V	_	_	3	nA
Capacitance	C _{1 V}	V _R = 1 V, f = 1 MHz	15	16	17	pF
Capacitance	C _{4 V}	V _R = 4 V, f = 1 MHz	7.0	8.0	8.5	pF
Capacitance ratio	C _{1 V} /C _{4 V}		1.8	2.0	_	_
Series resistance	r _s	V _R = 1 V, f = 470 MHz	_	0.22	0.4	Ω

Marking



TOSHIBA



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

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