TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

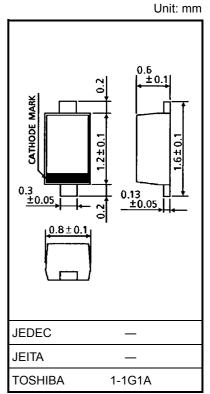
1SV281

VCO for V/UHF Band Radio

- High capacitance ratio: $C_1 V/C_4 V = 2.0$ (typ.)
- Low series resistance: $r_s = 0.28 \Omega$ (typ.)
- Useful for small size tuner.

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: 0.0014 g (typ.)

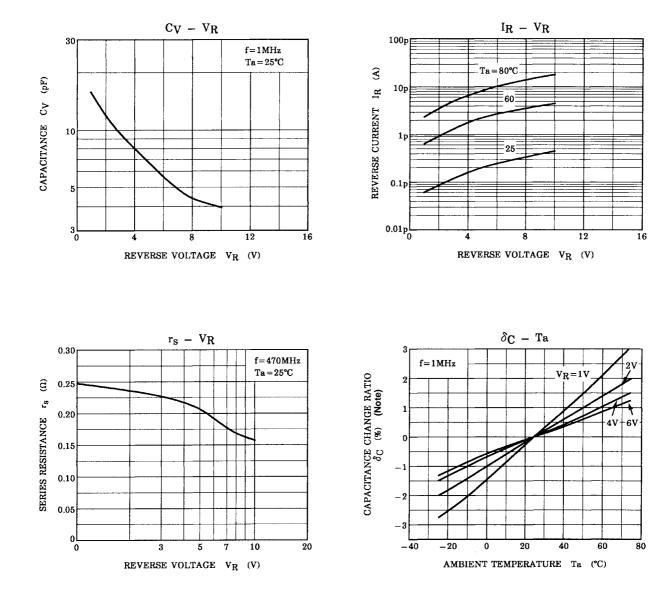
Electrical Characteristics (Ta = 25°C)

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	_	17	pF
Capacitance	C _{4 V}	V _R = 4 V, f = 1 MHz	7.3	_	8.7	pF
Capacitance ratio	C _{1 V} /C _{4 V}		1.8	2.0		
Series resistance	r _s	$V_{R} = 1 V, f = 470 MHz$		0.28	0.5	Ω

Marking



TOSHIBA



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

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