

TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

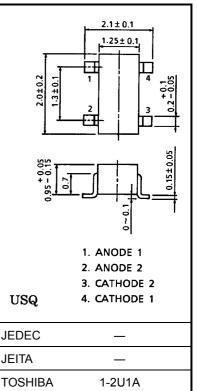


VCO for UHF Band Radio

- Small package
- Ultra low series resistance: $r_s = 0.20 \Omega$ (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	15	V
Junction temperature	Тј	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.006 g (typ.)

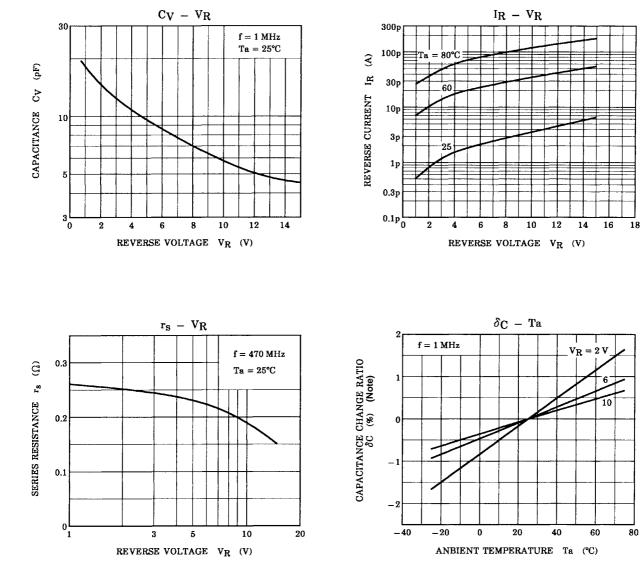
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	VR	$I_R = 1 \ \mu A$	15			V
Reverse current	I _R	V _R = 15 V	_	_	3	nA
Capacitance	C _{2 V}	V _R = 2 V, f = 1 MHz	14	15	16	pF
Capacitance	C _{10 V}	V _R = 10 V, f = 1 MHz	5.5	6	6.5	pF
Capacitance ratio	C _{2 V} /C _{10 V}		2	2.5		
Series resistance	r _s	$V_{R} = 5 V, f = 470 MHz$	_	0.2	0.4	Ω

Marking



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

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