TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S09S

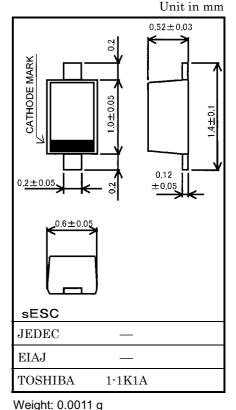
VCO for UHF band

• High capacitance ratio: $C_1 V/C_4 V = 2.1$ (typ.)

- Low series resistance: $r_s = 0.33 \Omega$ (typ.)
- This device is suitable for use in a small-size tuner.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_{R}	10	٧
Junction temperature	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C



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 _{1V}	V _R = 1 V, f = 1 MHz	9.7	_	11.1	- pF
	C _{4V}	V _R = 4 V, f = 1 MHz	4.45	_	5.45	
Capacitance ratio	C _{1V} /C _{4V}	_	1.8	2.1	_	_
Series resistance	ro	Vp = 1 V f = 470 MHz		0.33	0.45	Ω

Note: Signal level when capacitance is measured. $V_{sig} = 500 \text{ mVrms}$

Marking



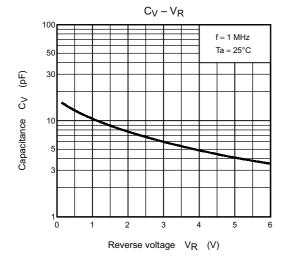
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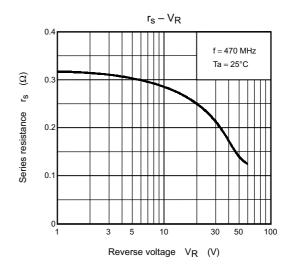
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