TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S01E

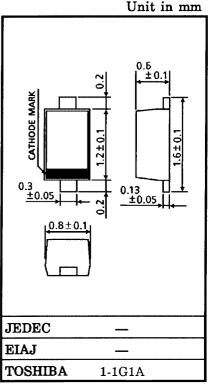
VCO for UHF band

Small Package

High Capacitance Ratio: $C_{1V}/C_{4V} = 2.0$ (typ.) Low Series Resistance : $r_s = 0.5 \Omega$ (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_{R}	10	٧
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



Weight: 0.0014 g

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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	2.85	3.15	3.45	- pF
	C _{4V}	V _R = 4 V, f = 1 MHz	1.35	1.57	1.81	
Capacitance ratio	C _{1V} /C _{4V}	_	1.8	2		_
Series resistance	r _S	V _R = 1 V, f = 470 MHz	_	0.5	0.7	Ω

Note: Signal level when capacitance is measured. $V_{\text{sig}} = 100 \text{ mV}_{\text{rms}}$

Marking



