TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S02E

VCO for UHF band

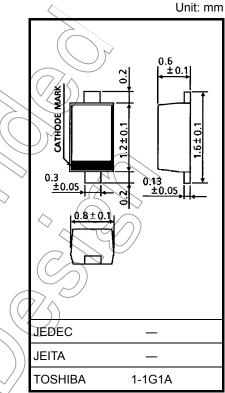
- Small Package
- High Capacitance Ratio: $C_{1V}/C_{4V} = 2.0$ (typ.)
- Low Series Resistance: $r_s = 0.60 \Omega$ (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	VR	10	(γ)
Junction temperature	Tj	125	C)
Storage temperature range	T _{stg}	-55~125	°C

Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings. Please design the appropriate reliability upon reviewing the

Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).



Weight: 0.0014 g (typ.)

Electrical Characteristics (Ta = 25° C)

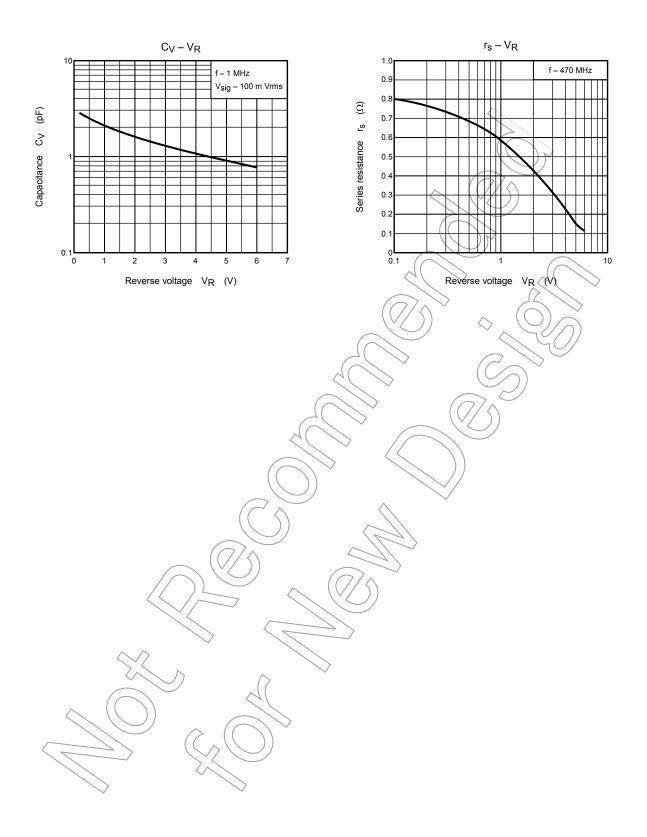
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit		
Reverse voltage	VR	$I_R = 1 \mu A$	10	_	_	V		
Reverse current	IR	V _R = 10 V			3	nA		
Capacitance	∕_C _{1V}	V _R = 1 V, f = 1 MHz	1.8	2.05	2.3	pF		
	⟨(C _{4V}	$V_R = 4 V, f = 1 MHz$	0.83	1.03	1.23			
Capacitance ratio	C1V/C4V	_	1.8	2		—		
Series resistance	rs	V _R = 1 V, f = 470 MHz	_	0.6	0.8	Ω		

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

Marking



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