TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S25SC

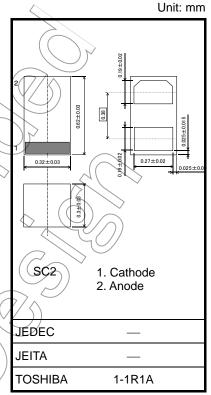
VCO for UHF Band Radio

- High capacitance ratio : $C_{1V}/C_{4V} = 2.9$ (typ.)
- Low series resistance : r_s = 0.47 ohm (typ.)
- A two-terminal ultra-small package supports high-density mounting and the downsizing of end products.

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating
Reverse voltage	V _R	10
Junction temperature	Tj	150 °C
Storage temperature range	T _{stg}	-55~150 °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.



Weight: 0.00017 g (typ.)

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).

Electrical Characteristics (Ta = 25°C)

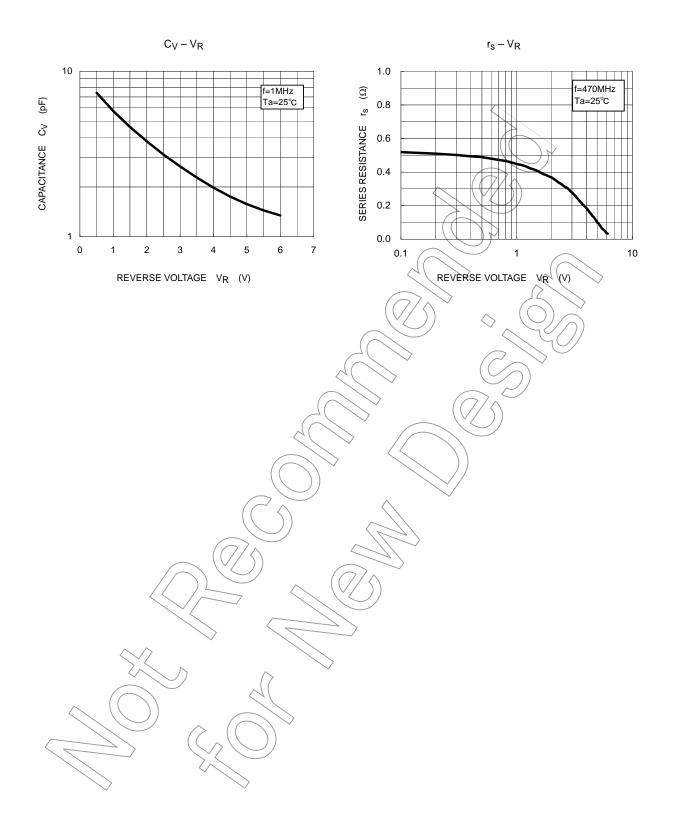
Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	VR	N _R = 1 μA	10	_	_	V
Reverse current	$\bigcap I_R$	$V_R = 5 V$	_	_	1	nA
Capacitance	C _{1V}	V _R = 1 V, f = 1 MHz	5.57	_	5.93	pF
	C ₄ V	$V_R = 4V, f = 1 MHz$	1.88		2.08	
Çapacitance ratio	¢1//C4/	_	2.81	_	3	
Series resistance	r _s	$V_{R} = 1 V, f = 470 MHz$	_	0.47	0.62	Ω

Note: Signal level when capacitance is measured: $V_{sig} = 100 \text{ mVrms}$

Marking



TOSHIBA



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