

TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S29SC

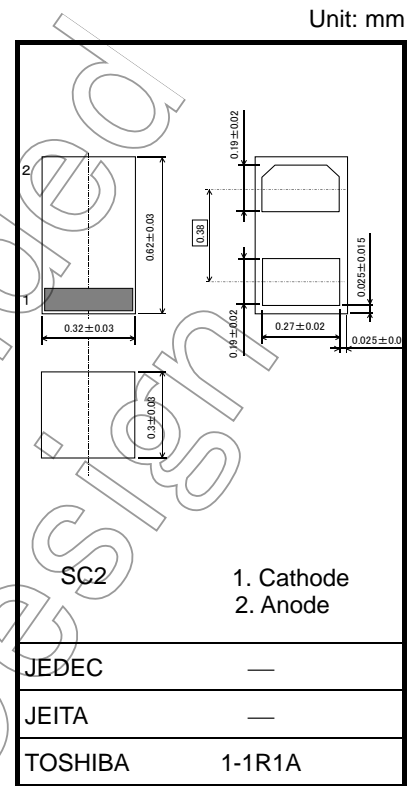
VCO for UHF Band Radio

- High Capacitance Ratio : $C_{1V}/C_{4V} = 2.8$ (typ.)
- Low Series Resistance : $r_s = 0.64$ 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	Unit
Reverse voltage	V_R	10	V
Junction temperature	T_j	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.
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).



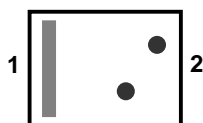
Weight: 0.00017 g (typ.)

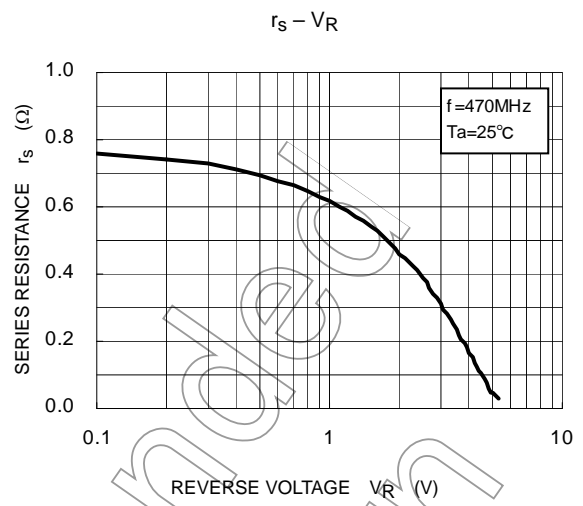
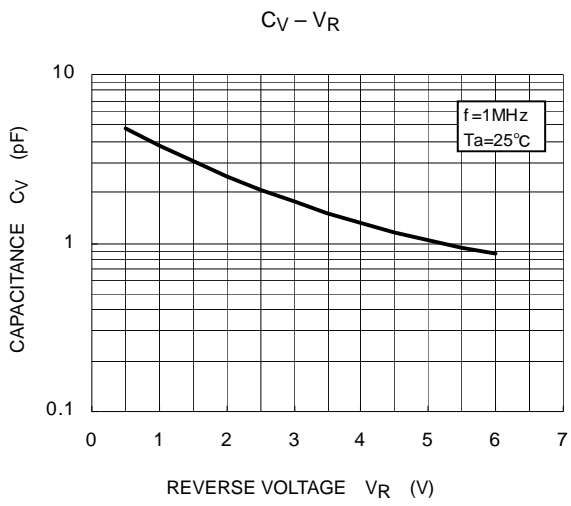
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 1 \mu A$	10	—	—	V
Reverse current	I_R	$V_R = 6 V$	—	—	1	nA
Capacitance	C_{1V}	$V_R = 1 V, f = 1 MHz$	3.54	—	3.83	pF
	C_{4V}	$V_R = 4 V, f = 1 MHz$	1.22	—	1.37	
Capacitance ratio	C_{1V}/C_{4V}	—	2.73	—	2.92	—
Series resistance	r_s	$V_R = 1 V, f = 470 MHz$	—	0.64	0.75	Ω

Note: Signal level when capacitance is measured: $V_{sig} = 100 mV_{rms}$

Marking





Not Recommended for New Design

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