

TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S25SC

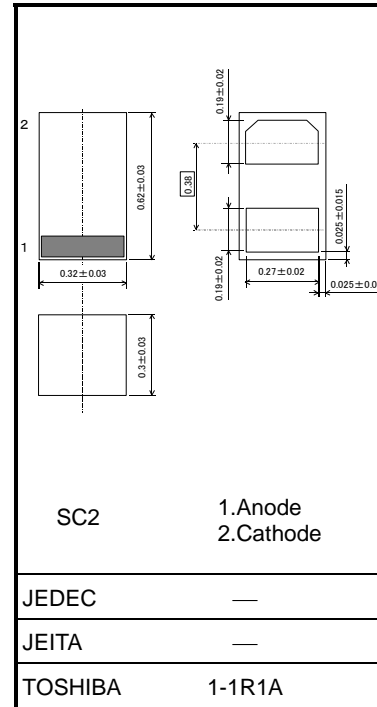
VCO for UHF Band Radio

- 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.
- Lead (Pb)-free.

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

Unit: mm



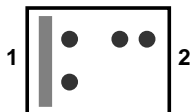
Weight: 0.00017 g (typ.)

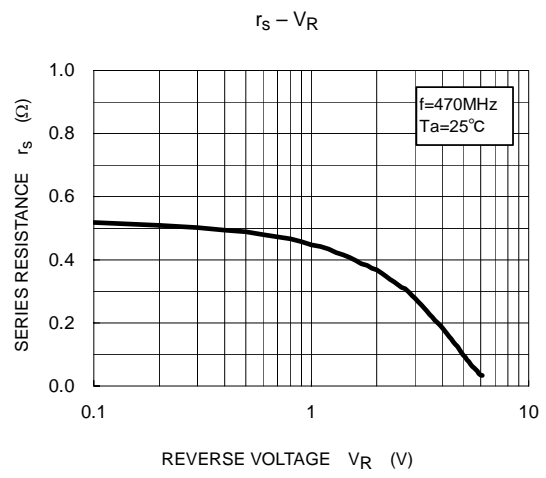
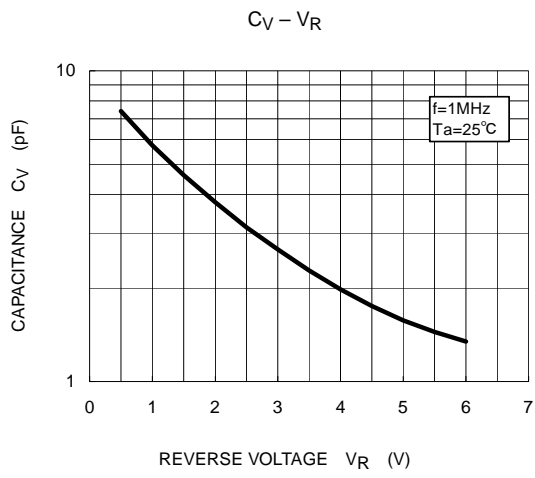
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 1 \mu A$	10	—	—	V
Reverse current	I_R	$V_R = 5 V$	—	—	1	nA
Capacitance	C_{1V}	$V_R = 1 V, f = 1 MHz$	5.57	—	5.93	pF
	C_{4V}	$V_R = 4 V, f = 1 MHz$	1.88	—	2.08	
Capacitance ratio	C_{1V}/C_{4V}	—	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: $V_{sig} = 100$ mVrms

Marking





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