

TOSHIBA Diode Silicon Epitaxial Planar Type

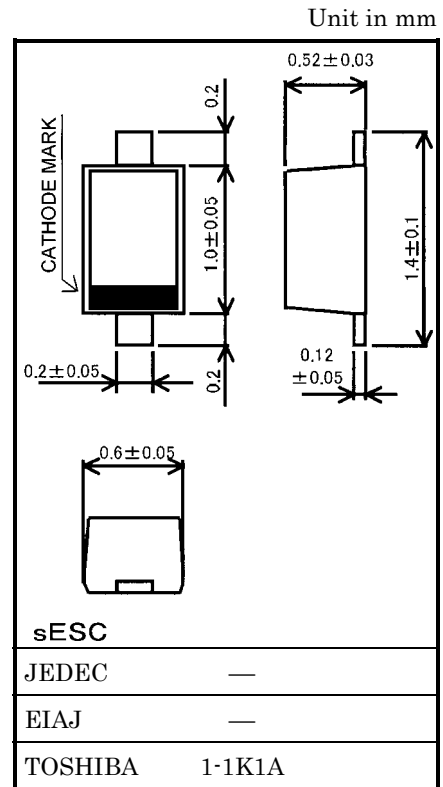
JDV2S01S

VCO for UHF band

- High capacitance ratio: $C_{1V}/C_{4V} = 2.0$ (typ.)
- Low series resistance: $r_s = 0.5 \Omega$ (typ.)
- This device is suitable for use in a small-size tuner.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	10	V
Junction temperature	T_j	150	°C
Storage temperature range	T_{stg}	-55~150	°C



Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Typ.	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	2.2	—
Series resistance	r_s	$V_R = 1 V, f = 470 MHz$	—	0.5	0.7	Ω

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

Marking

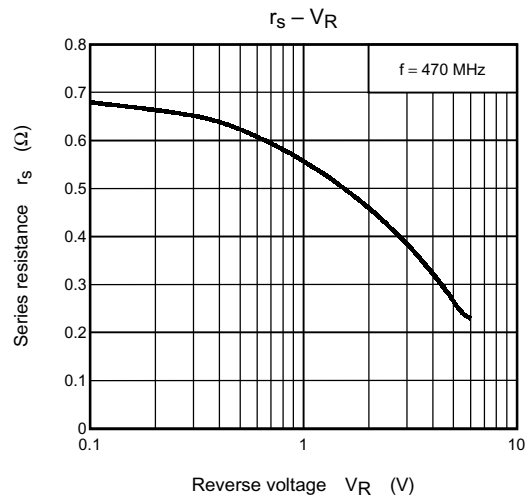
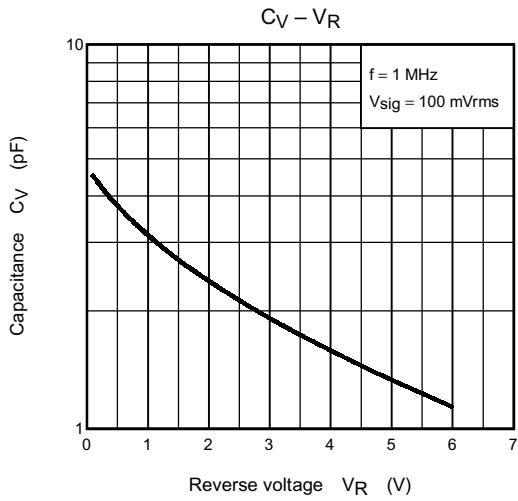


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