TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S25FS

VCO for UHF Band Radio

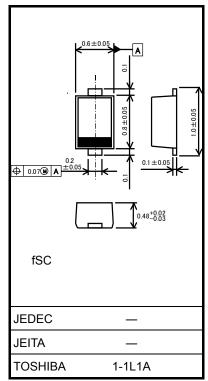
- High capacitance ratio: $C_{1V}/C_{4V} = 2.9$ (typ.)
- Low series resistance: $r_s = 0.49 \Omega$ (typ.)
- This device is suitable for use in small tuners.

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Reverse voltage	V _R	10	V
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. 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: 0.0006 g (typ.)

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	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	5.62	_	5.99	рF
	C _{4V}	$V_R = 4 V, f = 1 MHz$	1.91	_	2.12	
Capacitance ratio	C _{1V} /C _{4V}	—	2.77	_	2.98	_
Series resistance	r _s	V _R = 1 V, f = 470 MHz	_	0.49	0.64	Ω

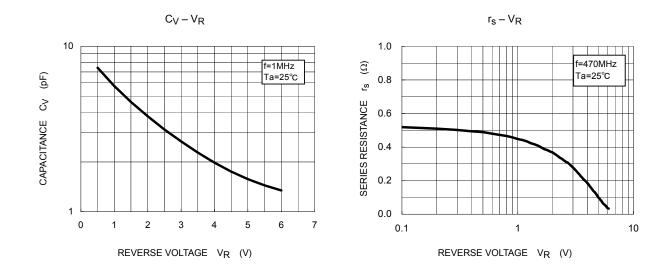
Note: Signal level when capacitance is measured. $V_{\mbox{sig}}=100\mbox{ mVrms}$

Marking



Unit: mm

TOSHIBA



RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

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