Unit: mm

TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S10T

VCO for UHF Band Radio

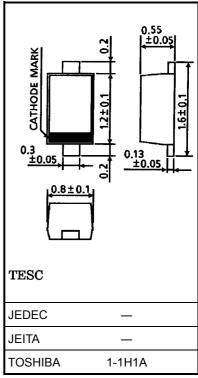
• High capacitance ratio: $C_{0.5}$ $V/C_{2.5}$ V = 2.5 (typ.)

• Low series resistance: $r_s = 0.35 \Omega$ (typ.)

• Useful for small size tuner.

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_{R}	10	V
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°C



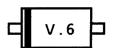
Weight: 0.0013 g (typ.)

Electrical Characteristics (Ta = 25°C)

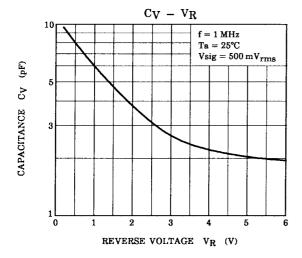
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	$I_R = 1 \mu A$	10	_	_	V
Reverse current	I _R	V _R = 10 V	_	_	3	nA
Capacitance	C _{0.5 V}	$V_R = 0.5 V, f = 1 MHz$	7.3	_	8.4	pF
Capacitance	C _{2.5 V}	V _R = 2.5 V, f = 1 MHz	2.75	_	3.4	pF
Capacitance ratio	C _{0.5 V} /C _{2.5 V}	_	2.4	2.5	_	_
Series resistance	r _s	V _R = 1 V, f = 470 MHz	_	0.35	0.5	Ω

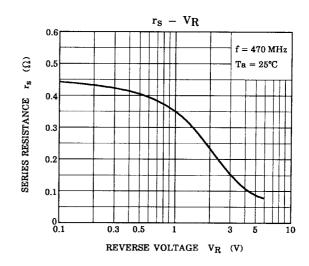
Note: Signal level when capacitance is measured: Vsig = 500 mVrms

Marking



1 2003-03-24





2 2003-03-24

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000707EAA

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