Unit: mm

TOSHIBA DIODE Silicon Epitaxial Planar Type

JDV2S07S

VCO for UHF Band Radio

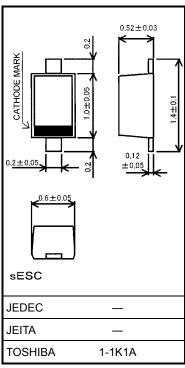
• High Capacitance Ratio: $C_{1V}/C_{4V} = 2.3$ (typ.)

• Low Series Resistance : $r_s = 0.42 \Omega$ (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	Tj	150	°C
Storage temperature range	T _{stg}	-55~150	°C



Weight: 0.0011 g (typ.)

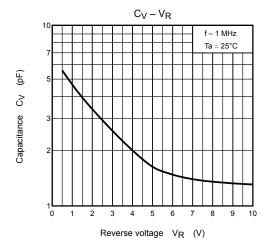
Electrical Characteristics (Ta = 25°C)

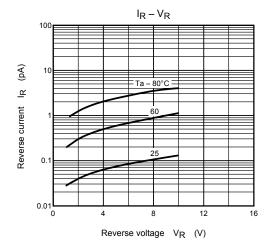
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	$I_R = 1 \mu A$	10	_	_	V
Reverse current	I _R	V _R = 10 V	_	_	3	nA
Capacitance -	C _{1V}	V _R = 1 V, f = 1 MHz	4.0	4.5	4.9	pF
	C _{4V}	V _R = 4 V, f = 1 MHz	1.85	2.0	2.35	
Capacitance ratio	C _{1V} /C _{4V}	_	2.0	2.3	_	_
Series resistance	r _s	V _R = 1 V, f = 470 MHz	_	0.42	0.55	Ω

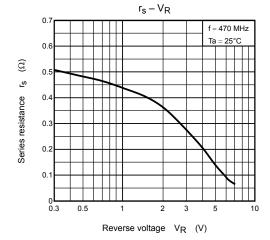
Note: Signal level when capacitance is measured: $V_{\text{sig}} = 500 \text{ mVrms}$

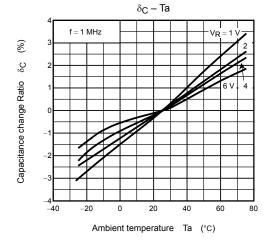
Marking











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000707EAA

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