TOSHIBA Diode Silicon Epitaxial Planar Type

JDV2S08FS

VCO for the UHF band

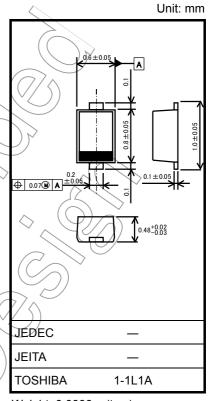
- High capacitance ratio: C_{1V}/C_{4V} = 3.0 (typ.)
- Low series resistance: $r_S = 0.35 \Omega$ (typ.)
- This device is suitable for use in a small-size tuner.

Absolute Maximum Ratings (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Reverse voltage	V_{R}	10	
Junction temperature	Tj	150	(°C)
Storage temperature range	T _{stg}	-55~150)့

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.)

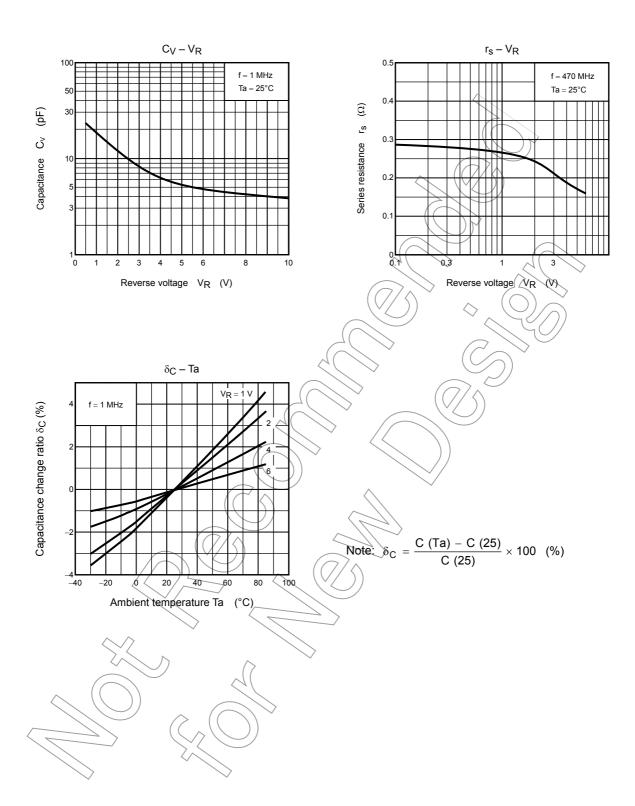
Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	VR	T _R =1 μA	10	_	_	V
Reverse current	IR	V _R = 10 V	_	_	3	nA
Capacitance	∕>C _{1V}	V _R = 1 V, f = 1 MHz	17.3	_	19.3	pF
	C _{4V}	V _R = 4 V, f = 1 MHz	5.3	_	6.6	
Capacitance ratio	C _{1V} C _{4V}	_	2.8	3		_
Series resistance	r _s	V _R = 1 V, f = 470 MHz	_	0.35	0.45	Ω

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

Marking





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