TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

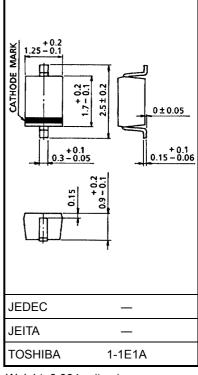
1SV216

TV VHF UHF Tuner AFC

Unit: mm

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_{R}	30	V
Peak reverse voltage	V_{RM}	35 (R _L = 10 kΩ)	V
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	−55~125	°C



Weight: 0.004 g (typ.)

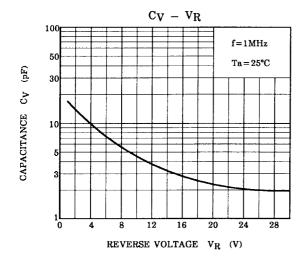
Electrical Characteristics (Ta = 25°C)

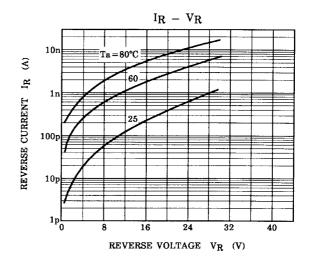
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	$I_R = 1 \mu A$	30	_	_	V
Reverse current	I _R	V _R = 28 V	_	_	10	nA
Capacitance	C _{2 V}	V _R = 2 V, f = 1 MHz	10.5	_	16	pF
Capacitance	C _{10 V}	V _R = 10 V, f = 1 MHz	3.3	_	5.7	pF
Capacitance ratio	C _{2 V} /C _{10 V}	_	2.5	_	3.4	_
Series resistance	r _s	V _R = 5 V, f = 470 MHz	_	0.55	1.2	Ω

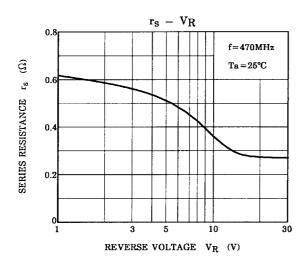
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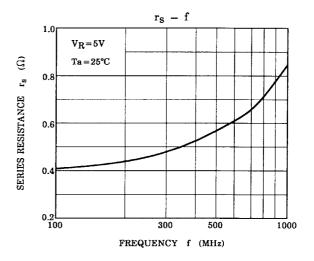
Marking

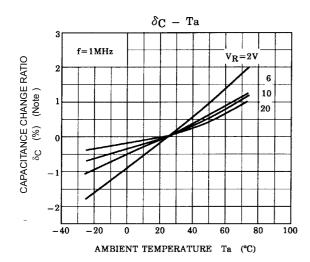












Note:
$$\delta_C = \frac{C (Ta) - C (25)}{C (25)} \times 100 (\%)$$

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