TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

1SV286

CATV Converter 1'st OSC Tuning

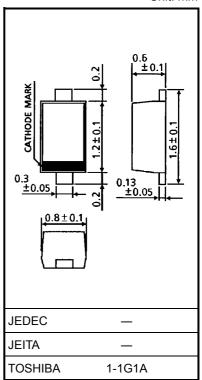
- High capacitance ratio: $C_2 V/C_{20} V = 8.9$ (typ.) ٠
- Low series resistance: $r_s = 0.73 \Omega$ (typ.)
- Useful for small size tuner.

Maximum Ratings (Ta = 25°C)

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

 $C_{2 V}/C_{20 V}$

rs



Weight: 0.0014 g (typ.)

8.9

0.73

0.9

Ω

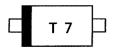
7.8

Electrical Characteristics (Ta = 25°C)

Characteristics

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8	Symbol	Test Condition	Min	Тур.	Max	Unit
	V _R	$I_R = 1 \ \mu A$	30		_	V
	I _R	V _R = 28 V	_		10	nA
	C _{2 V}	$V_R = 2 V, f = 1 MHz$	14.5		16.1	pF
	C _{20 V}	$V_{R} = 20 V, f = 1 MHz$	1.56		1.86	pF

Marking



Reverse voltage Reverse current Capacitance Capacitance

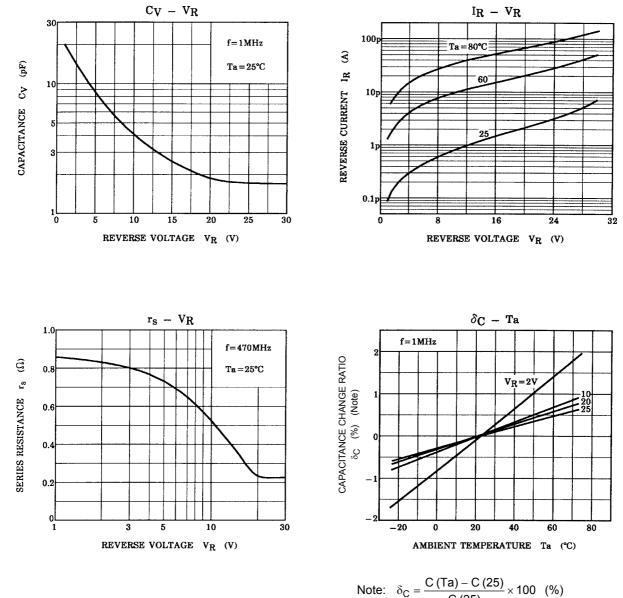
Capacitance ratio

Series resistance

 $V_{R} = 5 V, f = 470 MHz$

Unit: mm

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$$e: \quad \delta_{\rm C} = \frac{O(12) O(25)}{C(25)} \times$$

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