TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

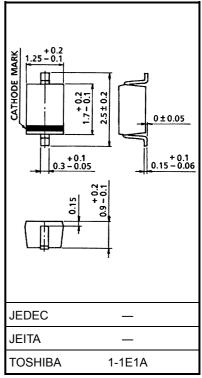
1SV262

CATV Tuning

- High capacitance ratio: C2 V/C25 V = 12.5 (typ.)
- Low series resistance: $rs = 0.6 \Omega$ (typ.)
- Excellent C-V characteristics, and small tracking error.
- Small package

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	34	V
Peak reverse voltage	V _{RM}	36 (R _L = 10 k Ω)	V
Junction temperature	Тј	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	VR	$I_R = 1 \ \mu A$	34	_	_	V
Reverse current	I _R	V _R = 32 V	_	_	10	nA
Capacitance	C2 V	$V_R = 2 V, f = 1 MHz$	33	35.5	38	pF
Capacitance	C25 V	V _R = 25 V, f = 1 MHz	2.6	2.85	3.0	pF
Capacitance ratio	C2 V/C25 V		12.0	12.5	_	_
Capacitance ratio	C25 V/C28 V		1.03	_	_	_
Series resistance	r _s	V _R = 5 V, f = 470 MHz	_	0.6	0.8	Ω

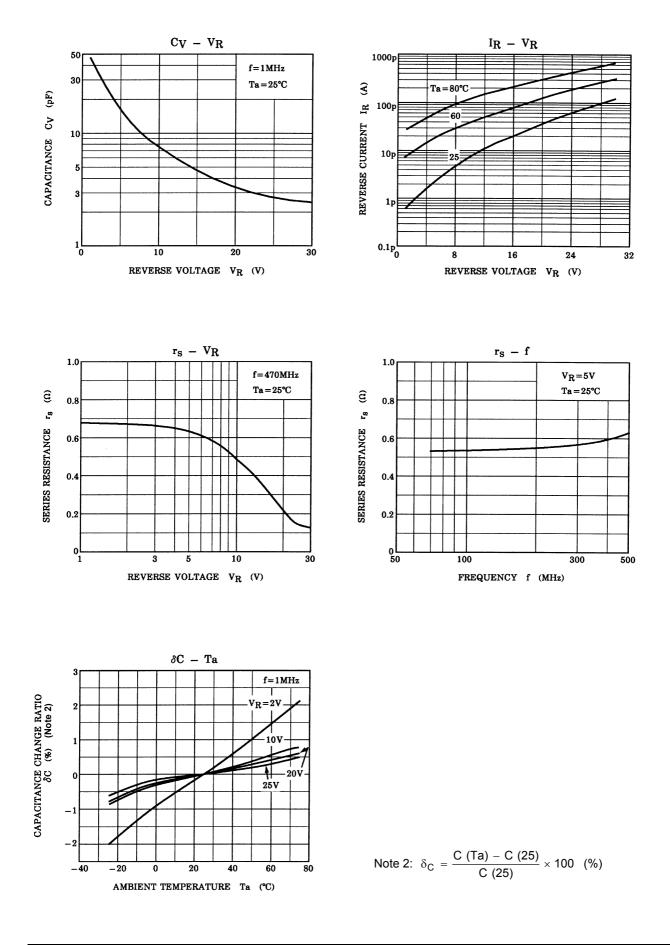
Note 1: Available in matched group for capacitance to 2.0%.

$$\frac{C \;(max) - \; C \;(min)}{C \;(min)} \; \leq 0.02 \; (V_R = 2\text{--}25 \; V)$$

Marking



TOSHIBA



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