Unit: mm

TOSHIBA Variable Capacitance Diode Silicon Epitaxial Planar Type

1SV279

VCO for V/UHF Band Radio

TOSHIBA

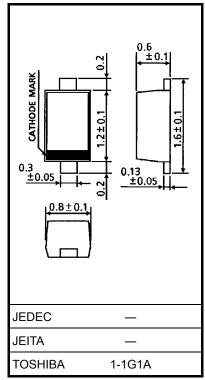
- High capacitance ratio: $C_{2V} / C_{10V} = 2.5$ (typ.)
- Low series resistance: $r_8 = 0.2 \Omega$ (typ.)
- Useful for small size tuner.

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	15	V
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55 to 125	°C

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: 0.0014 g (typ.)

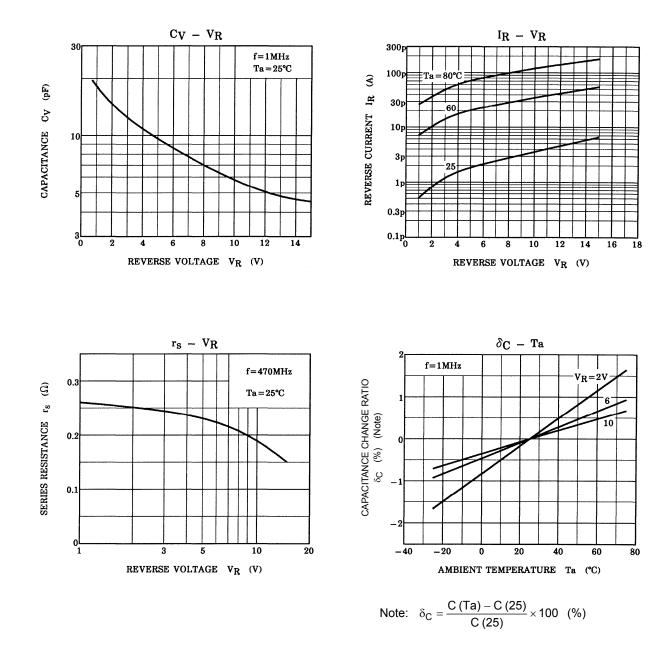
Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V _R	$I_R = 1 \ \mu A$	15	_	_	V
Reverse current	I _R	V _R = 15 V	_	_	3	nA
Capacitance	C _{2V}	V _R = 2 V, f = 1 MHz	14	_	16	pF
Capacitance	C _{10V}	V _R = 10 V, f = 1 MHz	5.5	_	6.5	pF
Capacitance ratio	C _{2V} / C _{10V}		2.0	2.5	_	—
Series resistance	r _s	$V_{R} = 5 V, f = 470 MHz$		0.2	0.4	Ω

Marking



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Toshiba: 1SV279TPH3F 1SV279(TH3,F,T) 1SV279



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Как с нами связаться

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