

TOSHIBA Diode Silicon Epitaxial Pin Type

1SV271

VHF~UHF Band RF Attenuator Applications

Unit: mm

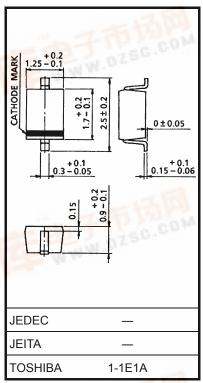
- Useful for small size tuner
- Small total capacitance: $C_T = 0.25 pF$ (typ.)
- Low series resistance: $r_8 = 3 \Omega$ (typ.)

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V _R	50	V
Forward current	lF	50	mA
Junction temperature	Tj	125	°C
Storage temperature range	T _{stg}	-55~125	°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: 0.004 g (typ.) WWW.DZSC.COM

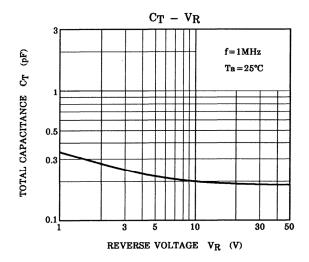
Electrical Characteristics (Ta = 25°C)

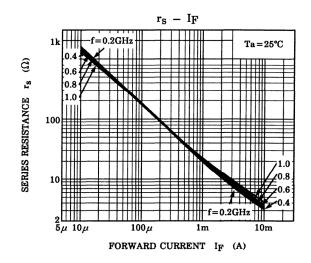
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	V_{R}	I _R = 10 μA	50	_	_	V
Reverse current	I _R	V _R = 50 V	_	_	0.1	μА
Forward voltage	V _F	I _F = 50 mA	_	0.93	1.0	V
Total capacitance	C _T	V _R = 50 V, f = 1 MHz	-	0.25	0.4	pF
Series resistance	r _S	I _F = 10 mA, f = 100 MHz		3	173.	Ω

Marking









2

RESTRICTIONS ON PRODUCT USE

20070701-EN GENERAL

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