TOSHIBA Diode Silicon Epitaxial Pin Type

# 1SV172

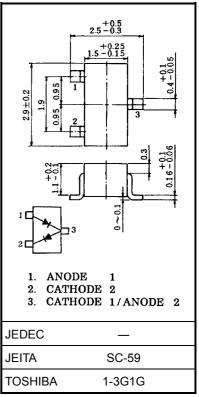
## VHF~UHF Band RF Attenuator Applications

Unit: mm

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

## **Maximum Ratings (Ta = 25°C)**

Characteristics	Symbol	Rating	Unit
Reverse voltage	V <sub>R</sub>	50	٧
Forward current	I <sub>F</sub>	50	mA
Junction temperature	Tj	125	°C
Storage temperature range	T <sub>stg</sub>	-55~125	°C



### Weight: 0.013 g (typ.)

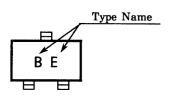
## **Electrical Characteristics (Ta = 25°C)**

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	$V_{R}$	$I_R = 10 \mu A$	50	_	_	V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 50 V		_	0.1	μА
Forward voltage	V <sub>F</sub>	I <sub>F</sub> = 50 mA	_	0.95	_	٧
Total capacitance (Note)	C <sub>T</sub>	V <sub>R</sub> = 50 V, f = 1 MHz	_	0.25	_	pF
Series resistance	r <sub>s</sub>	I <sub>F</sub> = 10 mA, f = 100 MHz	_	3	_	Ω

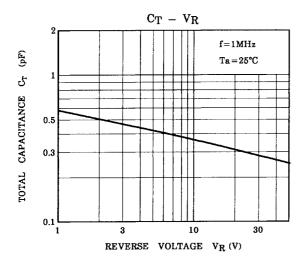
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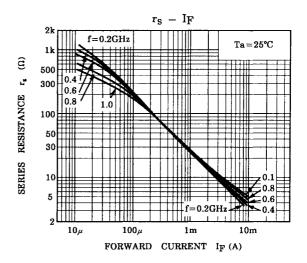
Note: C<sub>T</sub> is measured by 3 terminal method with capacitance bridge.

## Marking



2003-03-24





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