TOSHIBA Diode Silicon Epitaxial Pin Type

1SV172

VHF~UHF Band RF Attenuator Applications

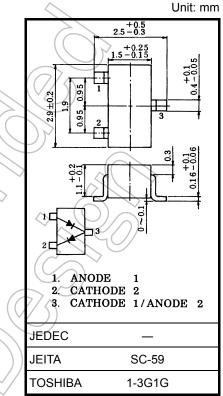
- Useful for small size tuner
- Small total capacitance: $C_T = 0.25 \text{ pF}$ (typ.)
- Low series resistance: $r_s = 3 \Omega$ (typ.)

Absolute Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	VR	50	V
Forward current	١ _F	50	(mA <
Junction temperature	Tj	125	3°
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).



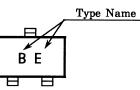
Weight: 0.013 g (typ.)

Electrical Characteristics (Ta = 25°C)

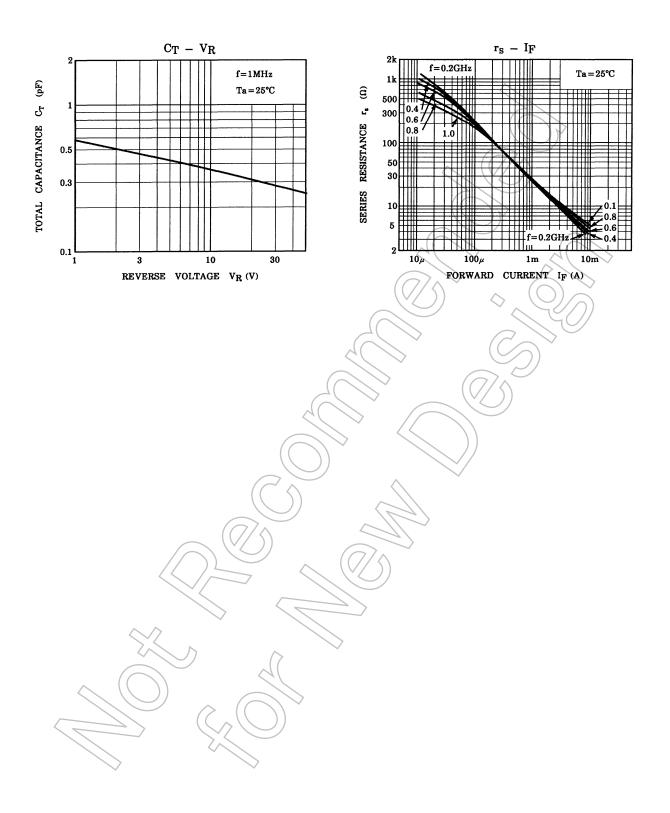
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Reverse voltage	VR	$I_R = 10 \ \mu A$	50	_	_	V
Reverse current	IR	V _R = 50 V	_	_	0.1	μA
Forward voltage	VF	I _F = 50 mA	_	0.95	_	V
Total capacitance (Note)	CŢ	V _R = 50 V, f = 1 MHz	_	0.25	_	pF
Series resistance	rs	I _F = 10 mA, f = 100 MHz	_	3	_	Ω

Note: CT is measured by 3 terminal method with capacitance bridge.

Marking



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