

TOSHIBA Diode Silicon Epitaxial Pin Type

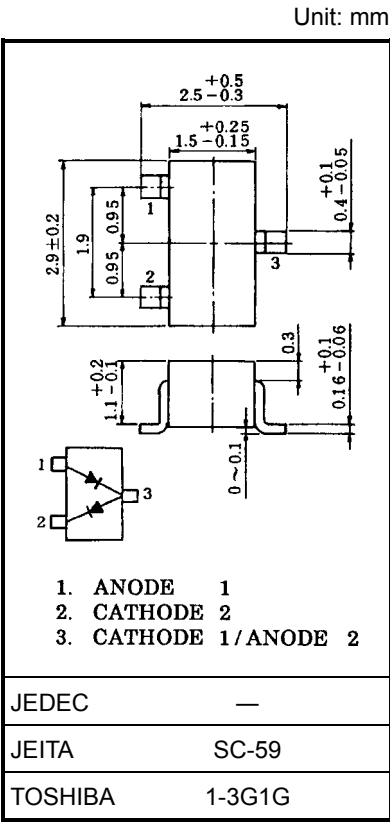
1SV172

VHF~UHF Band RF Attenuator Applications

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

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	50	V
Forward current	I_F	50	mA
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55~125	°C



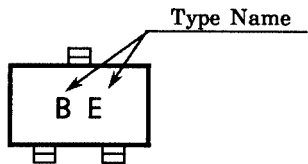
Electrical Characteristics (Ta = 25°C)

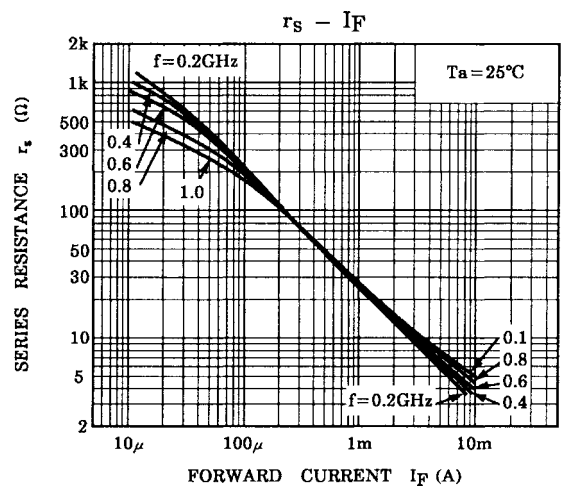
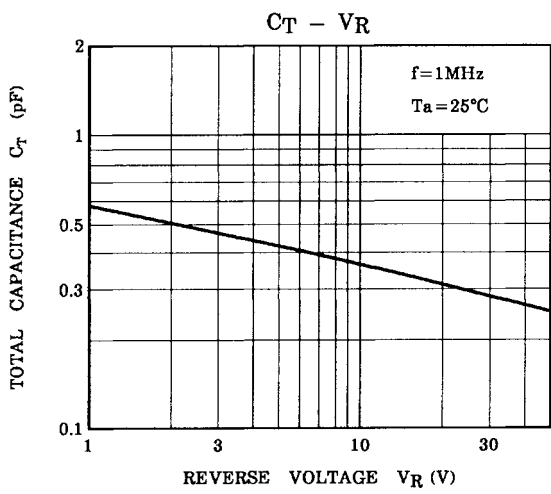
Weight: 0.013 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 10 \text{ } \mu\text{A}$	50	—	—	V
Reverse current	I_R	$V_R = 50 \text{ V}$	—	—	0.1	μA
Forward voltage	V_F	$I_F = 50 \text{ mA}$	—	0.95	—	V
Total capacitance (Note)	C_T	$V_R = 50 \text{ V}, f = 1 \text{ MHz}$	—	0.25	—	pF
Series resistance	r_s	$I_F = 10 \text{ mA}, f = 100 \text{ MHz}$	—	3	—	Ω

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

Marking





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