

TOSHIBA Diode Silicon Epitaxial Pin Type

1SV252

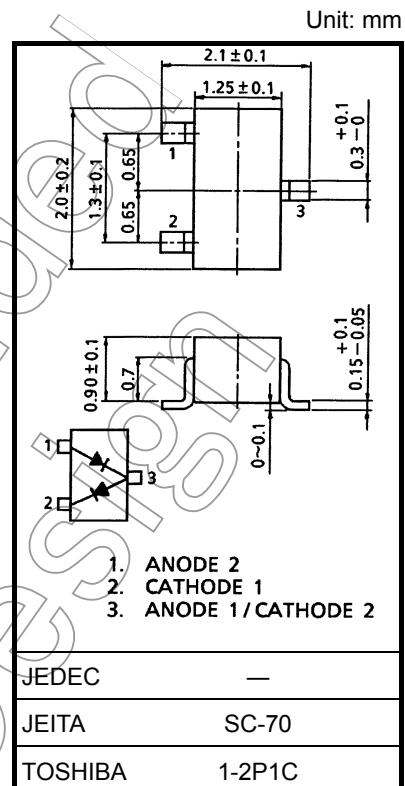
VHF~UHF Band RF Attenuator Applications

Absolute 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

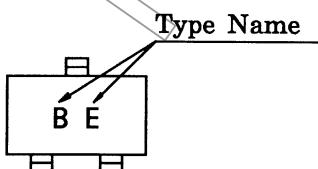
Note: Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings.

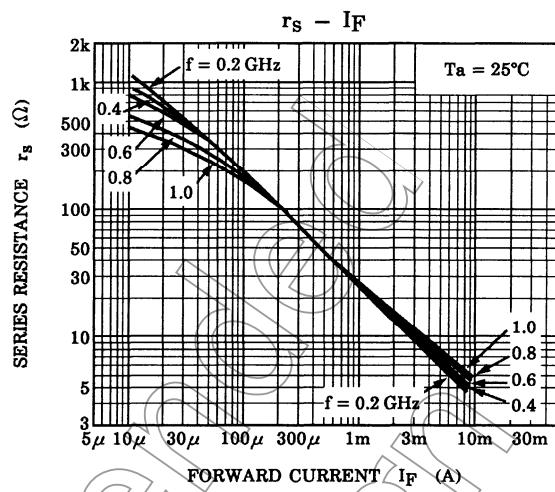
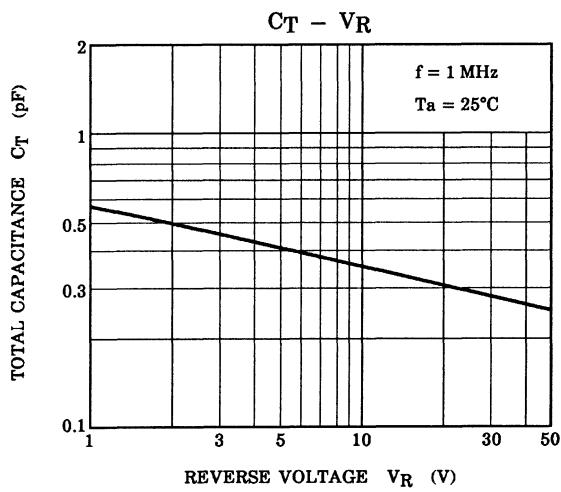
Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc.).

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

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V _R	I _R = 10 μA	50	—	—	V
Reverse current	I _R	V _R = 50 V	—	—	0.1	μA
Forward voltage	V _F	I _F = 50 mA	—	0.93	0.98	V
Total capacitance (Note)	C _T	V _R = 50 V, f = 1 MHz	—	0.2	0.4	pF
Series resistance	r _s	I _F = 10 mA, f = 100 MHz	—	3.5	10	Ω

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

Marking



Not Recommended for New Designs

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