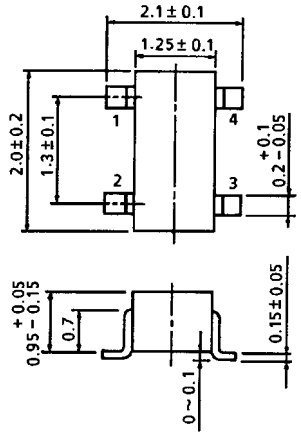
TOSHIBA Diode Silicon Epitaxial Pin Type

1SV312

VHF~UHF Band RF Attenuator Applications

- Two independent diodes mounted onto a 4-pin ultra compact package and it is suitable for high-density circuit design.
- Low capacitance: C_T = 0.25 pF (typ.)
- Low series resistance: r_s = 3 Ω (typ.)

Unit: mm



JEDEC	—
JEITA	—
TOSHIBA	1-2U1A

Weight: 0.006 g (typ.)

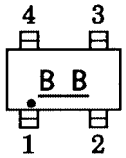
Maximum Ratings (Ta = 25°C)

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)

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	—	0.95	1	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	—	Ω

Marking



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