

TOSHIBA Diode Silicon Epitaxial Pin Type

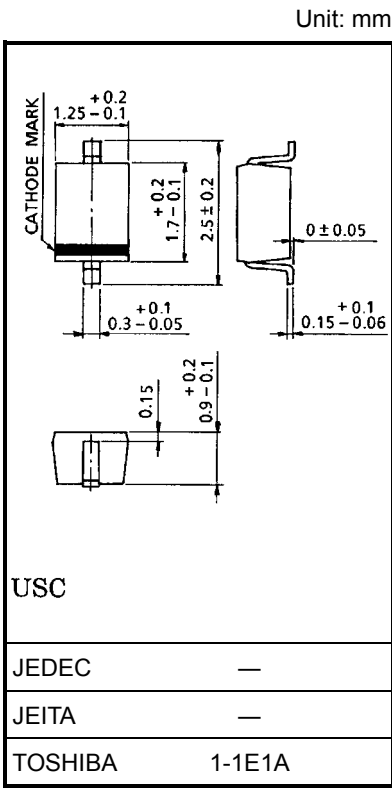
1SV307

VHF Tuner Band Switch Applications

- Small package
- Low series resistance: $r_s = 1.1 \, \Omega$ (typ.)
- Small total capacitance: $C_T = 0.3 \, \text{pF}$ (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	50	mA
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55~125	°C



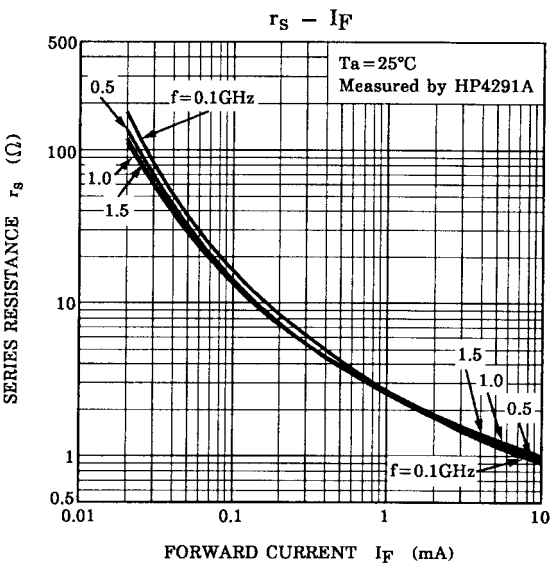
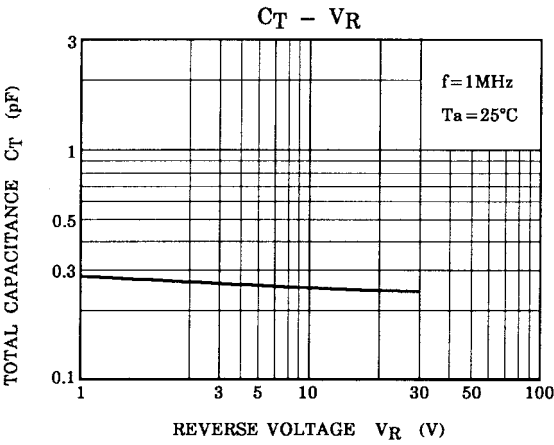
Electrical Characteristics (Ta = 25°C)

Weight: 0.004 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 10 \, \mu\text{A}$	30	—	—	V
Reverse current	I_R	$V_R = 30 \, \text{V}$	—	—	0.1	μA
Forward voltage	V_F	$I_F = 50 \, \text{mA}$	—	0.95	1.0	V
Total capacitance	C_T	$V_R = 1 \, \text{V}, f = 1 \, \text{MHz}$	—	0.3	0.5	pF
Series resistance	r_s	$I_F = 10 \, \text{mA}, f = 1.5 \, \text{GHz}$	—	1.1	—	Ω

Marking





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