

TOSHIBA Diode Silicon Epitaxial Planar Type

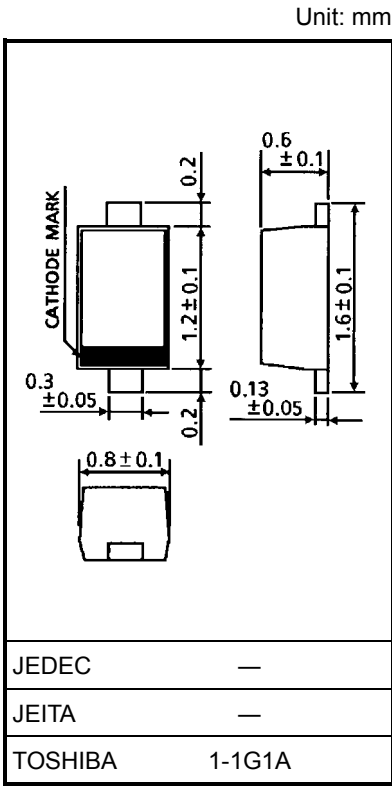
1SS381

VHF Tuner Band Switch Applications

- Small package
- Small total capacitance: $C_T = 1.2 \text{ pF}$ (max)
- Low series resistance: $r_s = 0.6 \text{ } \Omega$ (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	V_R	30	V
Forward current	I_F	100	mA
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55~125	°C



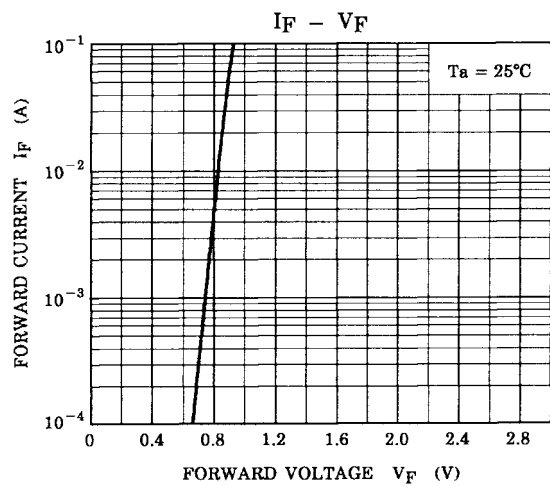
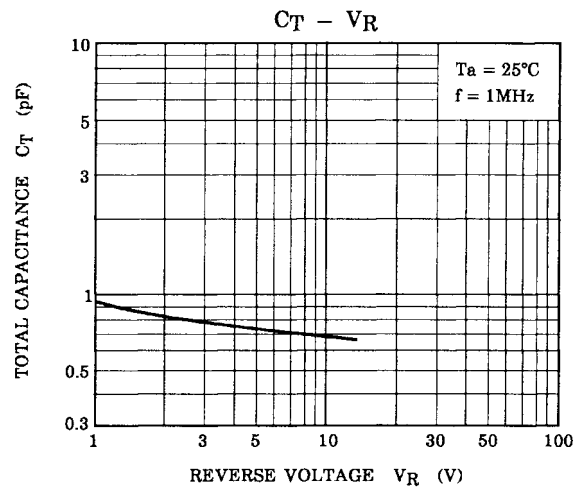
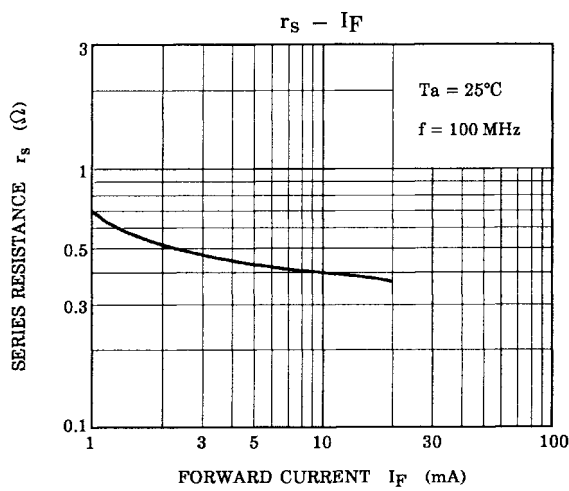
Electrical Characteristics (Ta = 25°C)

Weight: 0.0014 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Forward voltage	V_F	$I_F = 2 \text{ mA}$	—	—	0.85	V
Reverse current	I_R	$V_R = 15 \text{ V}$	—	—	0.1	μA
Reverse voltage	V_R	$I_R = 1 \text{ } \mu\text{A}$	30	—	—	V
Total capacitance	C_T	$V_R = 6 \text{ V}, f = 1 \text{ MHz}$	—	0.7	1.2	pF
Series resistance	r_s	$I_F = 2 \text{ mA}, f = 100 \text{ MHz}$	—	0.6	0.9	Ω

Marking





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