

TOSHIBA DIODE SILICON EPITAXIAL PIN TYPE

1SV271

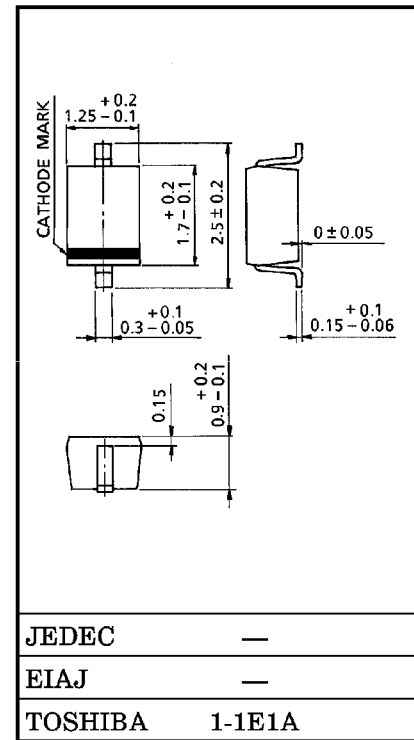
VHF~UHF BAND RF ATTENUATOR APPLICATIONS

Unit in mm

- Useful for Small Size Tuner
- Small Total Capacitance : $C_T = 0.25\text{pF}$ (Typ.)
- Low Series Resistance : $r_s = 3\Omega$ (Typ.)

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	50	V
Forward Current	I_F	50	mA
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55 \sim 125$	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R = 10\mu\text{A}$	50	—	—	V
Reverse Current	I_R	$V_R = 50\text{V}$	—	—	0.1	μA
Forward Voltage	V_F	$I_F = 50\text{mA}$	—	0.93	1.0	V
Total Capacitance	C_T	$V_R = 50\text{V}$, $f = 1\text{MHz}$	—	0.25	0.4	pF
Series Resistance	r_s	$I_F = 10\text{mA}$, $f = 100\text{MHz}$	—	3	4.5	Ω

MARKING



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