

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1SV323

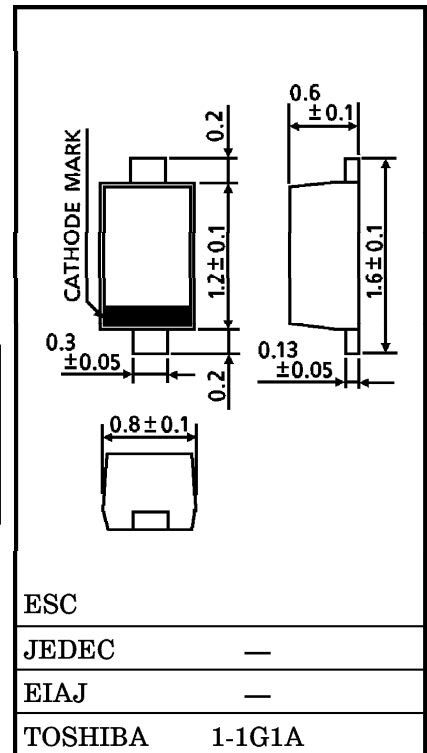
TCXO/VCO

Unit in mm

- High Capacitance Ratio : $C_{1V}/C_{4V} = 4.3$ (Typ.)
- Low Series Resistance : $r_s = 0.4 \Omega$ (Typ.)
- Useful for Small Size Tuner.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	10	V
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55~125	$^\circ\text{C}$



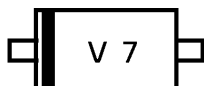
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Weight : 0.0014 g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R = 1 \mu\text{A}$	10	—	—	V
Reverse Current	I_R	$V_R = 10 \text{ V}$	—	—	3	nA
Capacitance	C_{1V}	$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	26.5	—	29.5	pF
Capacitance	C_{4V}	$V_R = 4 \text{ V}, f = 1 \text{ MHz}$	6.0	—	7.1	pF
Capacitance Ratio	C_{1V}/C_{4V}	—	4.0	4.3	—	—
Series Resistance	r_s	$V_R = 4 \text{ V}, f = 100 \text{ MHz}$	—	0.4	0.8	Ω

* Signal level when capacitance is measured : $V_{sig} = 500 \text{ mV}_{rms}$

MARKING



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