

TOSHIBA

1SV293

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 2 9 3

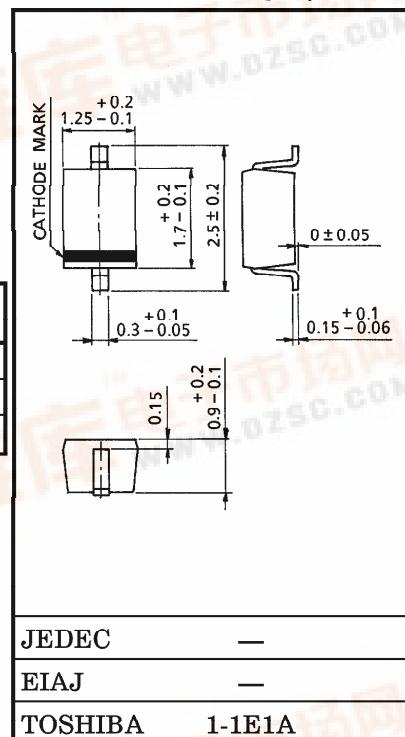
VCO FOR UHF BAND RADIO

Unit in mm

- Ultra Low Series Resistance : $r_s = 0.26\Omega$ (Typ.)
- Useful for Small Size Set

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}	$-55 \sim 125$	$^\circ\text{C}$



Weight : 0.004g

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

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}	$V_R = 1\text{V}, f = 1\text{MHz}$	18.0	—	20.0	pF
Capacitance	C_{4V}	$V_R = 4\text{V}, f = 1\text{MHz}$	10.1	—	11.6	pF
Capacitance Ratio	C_{1V} / C_{4V}	—	1.55	—	—	—
Series Resistance	r_s	$V_R = 1\text{V}, f = 470\text{MHz}$	—	0.26	0.4	Ω

Marking



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