

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

# 1SV285

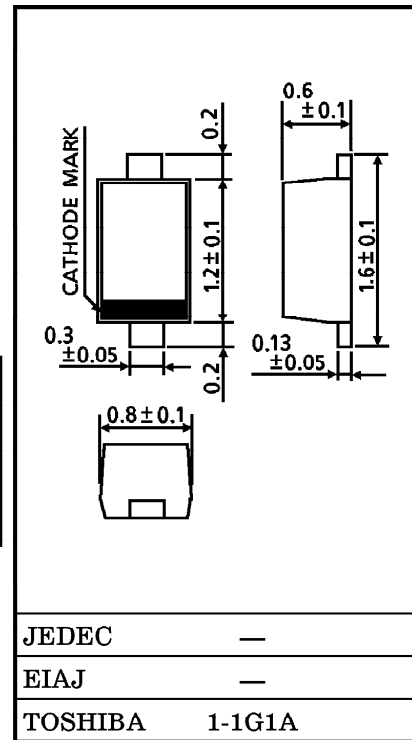
VCO FOR UHF BAND RADIO

Unit in mm

- High Capacitance Ratio :  $C_{1V} / C_{4V} = 2.3$  (TYP.)
- Low Series Resistance :  $r_s = 0.42\Omega$  (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	$^\circ\text{C}$



Weight : 0.0014g

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	$C_{1V}$	$V_R = 1\text{V}, f = 1\text{MHz}$	4.0	—	4.9	pF
Capacitance	$C_{4V}$	$V_R = 4\text{V}, f = 1\text{MHz}$	1.85	—	2.35	pF
Capacitance Ratio	$C_{1V} / C_{4V}$	—	2.0	2.3	—	—
Series Resistance	$r_s$	$V_R = 1\text{V}, f = 470\text{MHz}$	—	0.42	0.55	$\Omega$

### MARKING



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