TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 3 0 5

VCO FOR VHF BAND RADIO

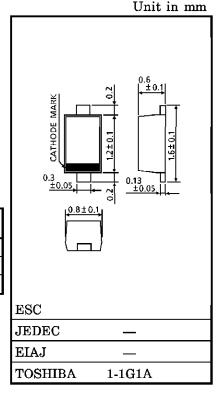
Small Package

 $: C_{1V}/C_{4V} = 3.0 \text{ (Typ.)}$ High Capacitance Ratio

Low Series Resistance : $r_{\rm S} = 0.27\Omega$ (Typ.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATIN	UNIT
Reverse Voltage	$v_{\mathbf{R}}$	10	V
Junction Temperature	T_j	125	$^{\circ}\mathrm{C}$
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	°C



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX	UNIT
Reverse Voltage	v_{R}	$I_R = 1 \mu A$	10	_	_	V
Reverse Current	$I_{ m R}$	$V_R=10V$	_	_	3	nA
Capacitance	c_{1V}	$V_R=1V$, $f=1MHz$	17.3	18.3	19.3	pF
Capacitance	c_{4V}	$V_R=4V$, $f=1MHz$	5.3	6.1	6.6	pF
Capacitance Ratio	C_{1V}/C_{4V}	_	2.8	3	_	
Series Resistance	r_{s}	$V_R=1V$, $f=470MHz$		0.27	0.32	Ω

MARKING



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