TOSHIBA

1SV311

Unit in mm

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 3 1 1

VCO FOR UHF BAND RADIO

High Capacitance Ratio : $C_{1V}/C_{4V}=2.1$ (Typ.)

: $r_{\rm S} = 0.28\Omega$ (Typ.) Low Series Resistance

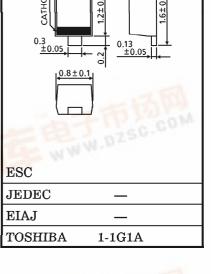
Useful for Small Size Tuner

MAXIMUM RATINGS (Ta = 25°C)

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

MARKING





ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	v_{R}	$I_R=1\mu A$	10	_	_	V
Reverse Current	I_{R}	$V_R = 10V$	_	_	3	nA
Capacitance	C1V	$V_R = 1V$, $f = 1MHz$	9.7	_	11.1	pF
Capacitance	c_{4V}	$V_R=4V, f=1MHz$	4.45	_	5.45	pF
Capacitance Ratio	C_{1V}/C_{4V}	_	1.8	2.1	_	_
Series Resistance	r_{S}	V_R =1V, f=470MHz	_	0.28	0.4	Ω

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