TOSHIBA 1SV314

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

1 S V 3 1 4

VCO FOR UHF BAND RADIO

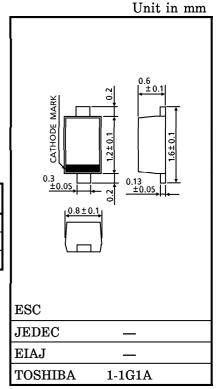
High Capacitance Ratio : $C_{0.5 \text{ V}}/C_{2.5 \text{ V}} = 2.5 \text{ (Typ.)}$

Low Series Resistance : $r_{\rm S} = 0.35 \,\Omega$ (Typ.)

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	$ m T_{stg}$	-55~125	$^{\circ}\mathrm{C}$



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$v_{ m R}$	$I_R = 1 \mu A$	10	_	_	V
Reverse Current	I_{R}	$V_R = 10 \text{ V}$	_	_	3	nA
Capacitance	$c_{0.5\mathrm{V}}$	$V_R = 0.5 V, f = 1 MHz$	7.3	_	8.4	pF
Capacitance	$\mathrm{c}_{2.5\mathrm{V}}$	$ m V_R = 2.5 V, f = 1 MHz$	2.75	-	3.4	pF
Capacitance Ratio	${^{\rm C}_{0.5 V}}/{^{\rm C}_{2.5 V}}$	_	2.4	2.5	_	_
Series Resistance	$r_{\rm S}$	$V_R = 1 V$, $f = 470 MHz$	_	0.35	_	Ω

MARKING



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