TOSHIBA 1SV314

#### TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

# 1 S V 3 1 4

#### VCO FOR UHF BAND RADIO

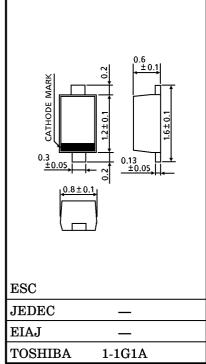
High Capacitance Ratio :  $C_{0.5 \text{ V}}/C_{2.5 \text{ V}} = 2.5 \text{ (Typ.)}$ 

:  $r_{\rm S} = 0.35 \,\Omega$  (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	$T_{ m j}$	125	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	$^{\circ}\mathrm{C}$



Unit in mm

### 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	$I_{R}$	$V_R = 10 V$	_	_	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	$begin{array}{ccc} {\rm C}_{0.5{ m V}}/\ {\rm C}_{2.5{ m V}} \end{array}$	_	2.4	2.5	_	_
Series Resistance	r <sub>S</sub>	$V_R = 1 V$ , $f = 470 MHz$	_	0.35	_	Ω

**MARKING** 



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