

TOSHIBA DIODE SILICON EPITAXIAL PLANAR TYPE

# 1SV313

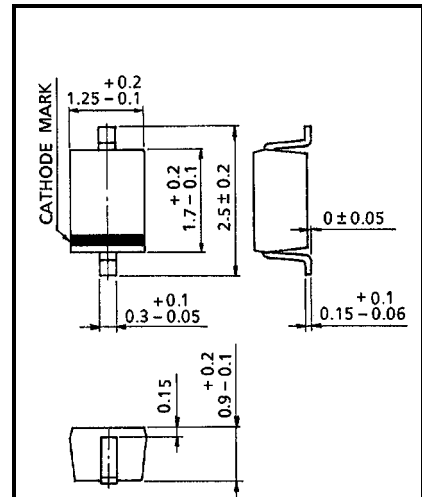
VCO FOR UHF BAND RADIO

- High Capacitance Ratio :  $C_{0.5V}/C_{2.5V} = 2.5$  (Typ.)
- Low Series Resistance :  $r_s = 0.35\Omega$  (Typ.)
- Useful for Small Size Tuner

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	10	V
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_{stg}$	-55~125	°C

Unit in mm



USC

JEDEC —

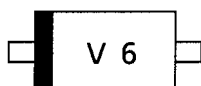
EIAJ —

TOSHIBA 1-1E1A

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

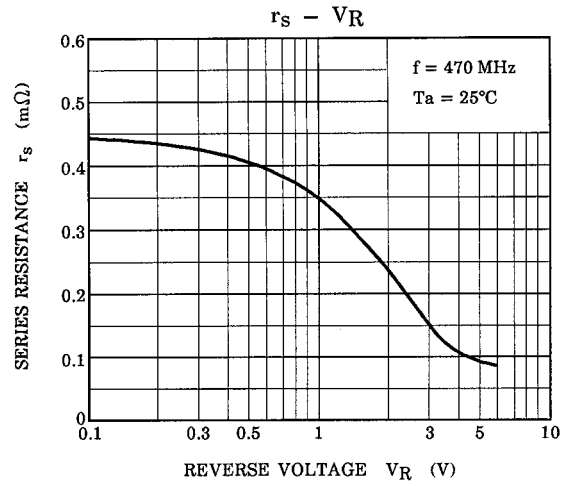
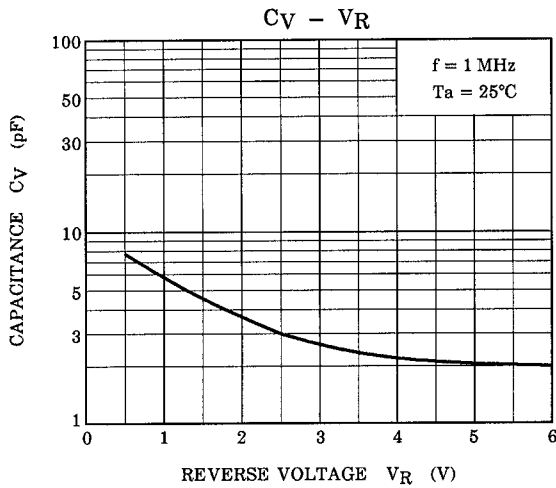
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$V_R$	$I_R = 1\mu A$	10	—	—	V
Reverse Current	$I_R$	$V_R = 10 V$	—	—	3	nA
Capacitance	$C_{0.5V}$	$V_R = 0.5 V, f = 1 MHz$	7.3	—	8.4	pF
Capacitance	$C_{2.5V}$	$V_R = 2.5 V, f = 1 MHz$	2.75	—	3.4	pF
Capacitance Ratio	$C_{0.5V}/C_{2.5V}$	—	2.4	2.5	—	—
Series Resistance	$r_s$	$V_R = 1 V, f = 470 MHz$	—	0.35	0.45	$\Omega$

## MARKING



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