

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

# 1SV286

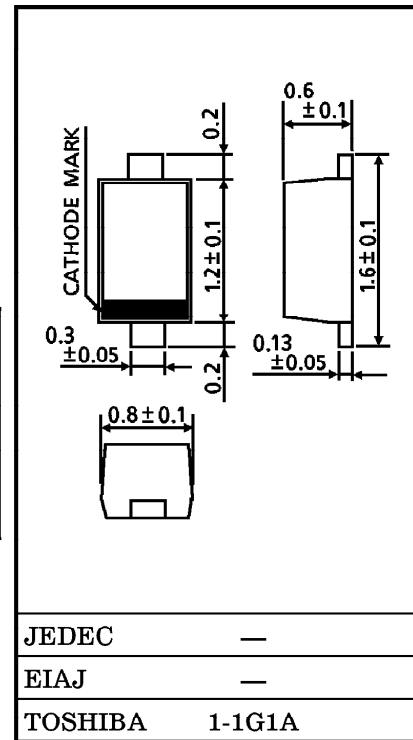
CATV CONVERTER 1'st OSC TUNING

Unit in mm

- High Capacitance Ratio :  $C_{2V} / C_{20V} = 8.9$  (TYP.)
- Low Series Resistance :  $r_s = 0.73 \Omega$  (TYP.)
- Useful for Small Size Tuner.

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	30	V
Peak Reverse Voltage	$V_{RM}$	35 ( $R_L = 10k\Omega$ )	V
Junction Temperature	$T_j$	125	°C
Storage Temperature Range	$T_{stg}$	-55~125	°C

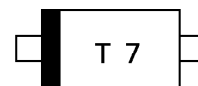


Weight : 0.0014g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$V_R$	$I_R = 1 \mu A$	30	—	—	V
Reverse Current	$I_R$	$V_R = 28V$	—	—	10	nA
Capacitance	$C_{2V}$	$V_R = 2V, f = 1MHz$	14.5	—	16.1	pF
Capacitance	$C_{20V}$	$V_R = 20V, f = 1MHz$	1.56	—	1.86	pF
Capacitance Ratio	$C_{2V} / C_{20V}$	—	7.8	8.9	—	—
Series Resistance	$r_s$	$V_R = 5V, f = 470MHz$	—	0.73	0.9	$\Omega$

MARKING

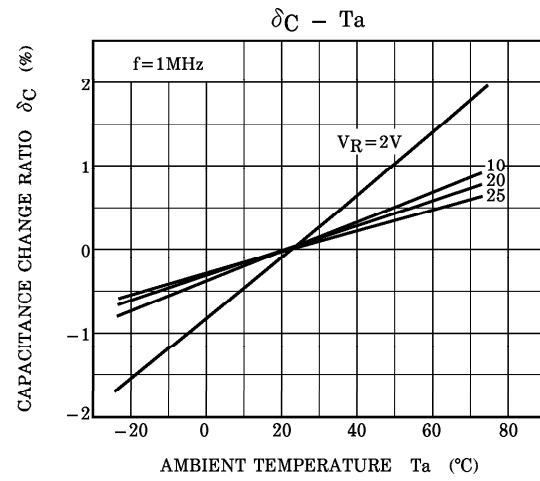
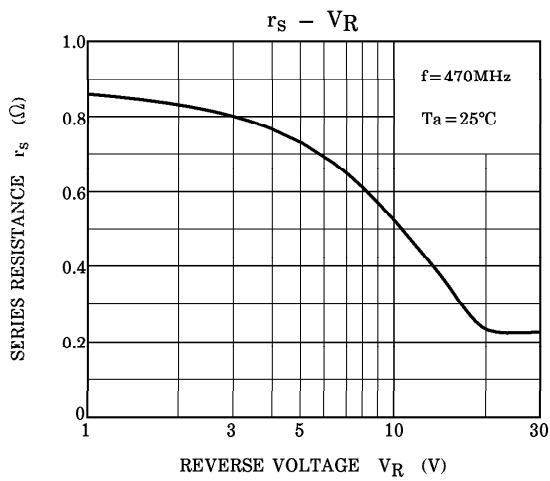
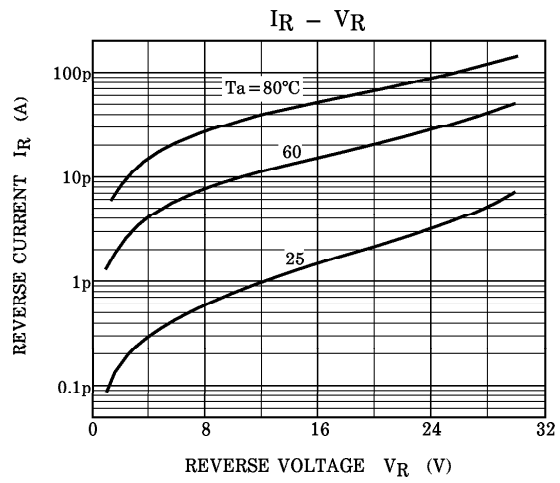
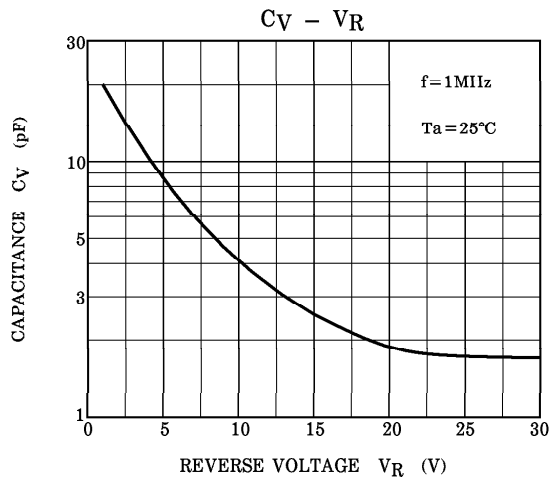


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NOTE : 
$$\delta C = \frac{C(T_a) - C(25)}{C(25)} \times 100$$