

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1SV286

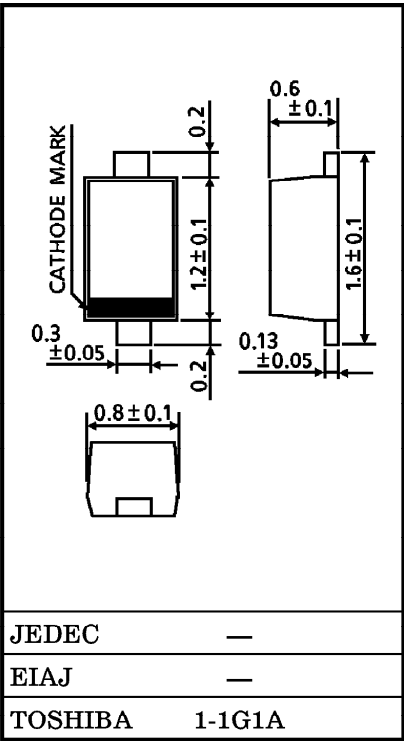
CATV CONVERTER 1'st OSC TUNING

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

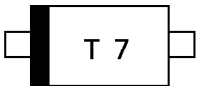


Weight : 0.0014g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

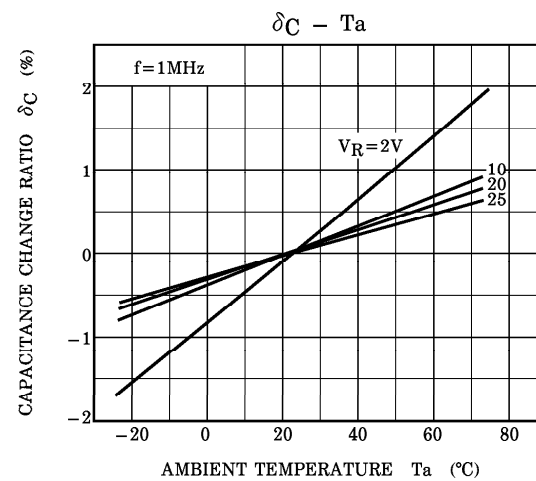
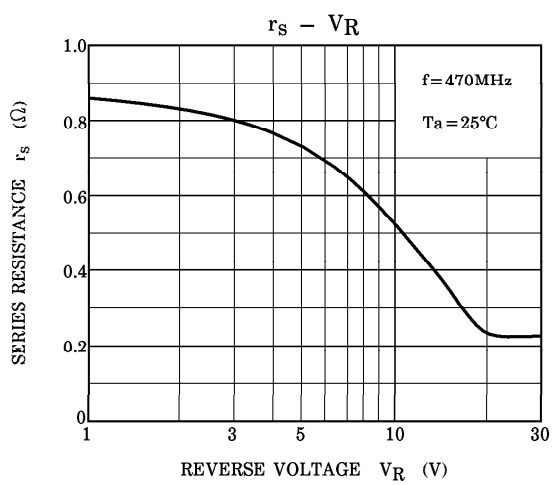
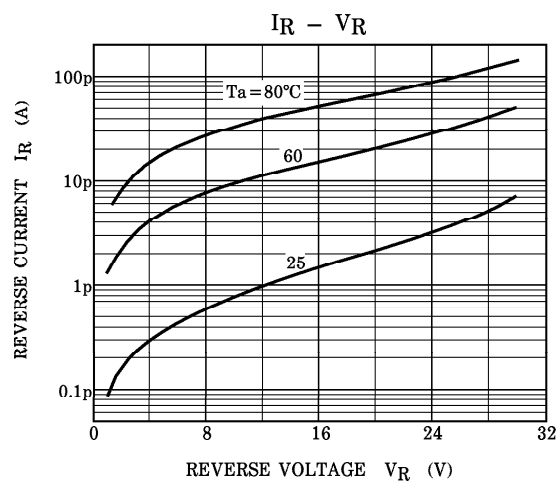
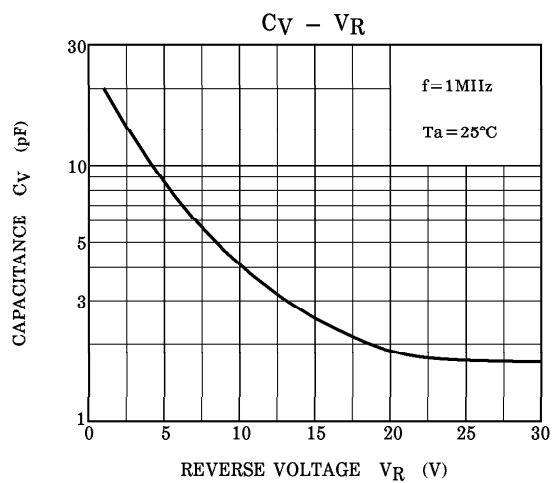
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R = 1 \mu A$	30	—	—	V
Reverse Current	I_R	$V_R = 28V$	—	—	10	nA
Capacitance	C_{2V}	$V_R = 2V, f = 1MHz$	14.5	—	16.1	pF
Capacitance	C_{20V}	$V_R = 20V, f = 1MHz$	1.56	—	1.86	pF
Capacitance Ratio	C_{2V} / C_{20V}	—	7.8	8.9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

MARKING



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