

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1SV286

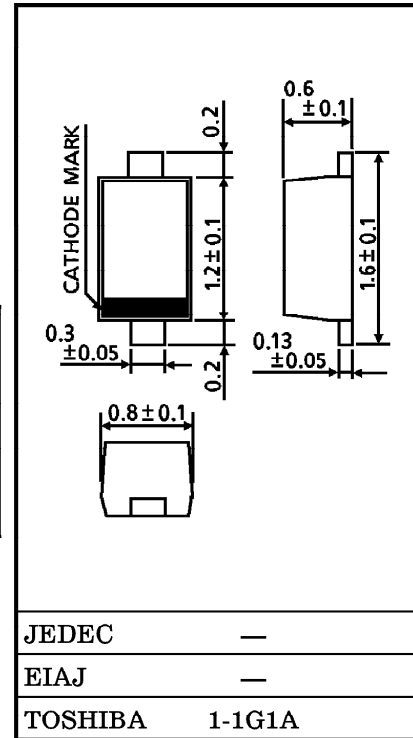
CATV CONVERTER 1'st OSC TUNING

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 ($T_a = 25^\circ\text{C}$)

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	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	$-55\sim 125$	$^\circ\text{C}$

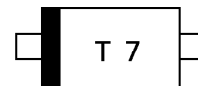


Weight : 0.0014g

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

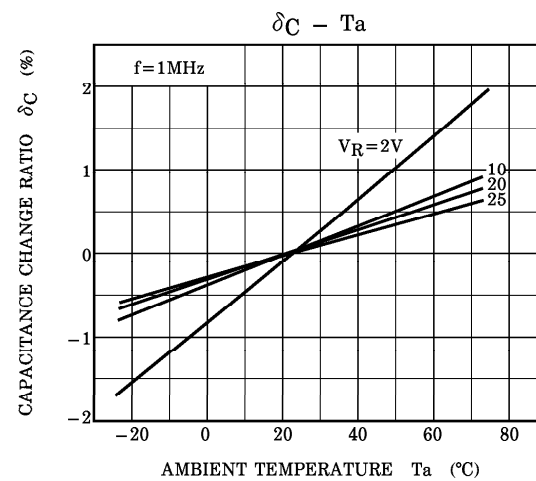
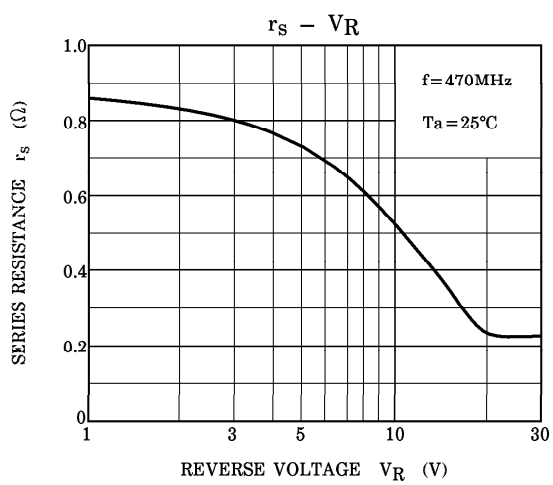
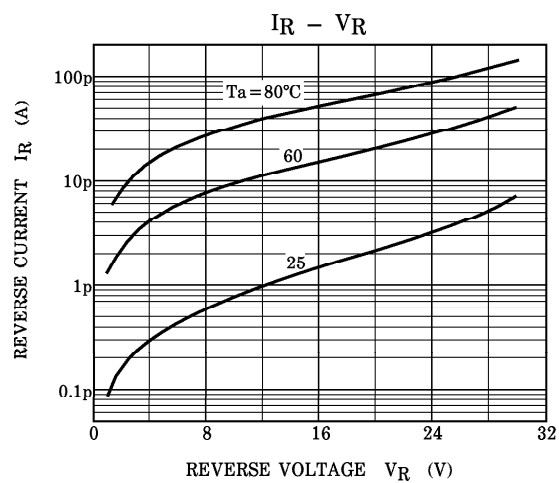
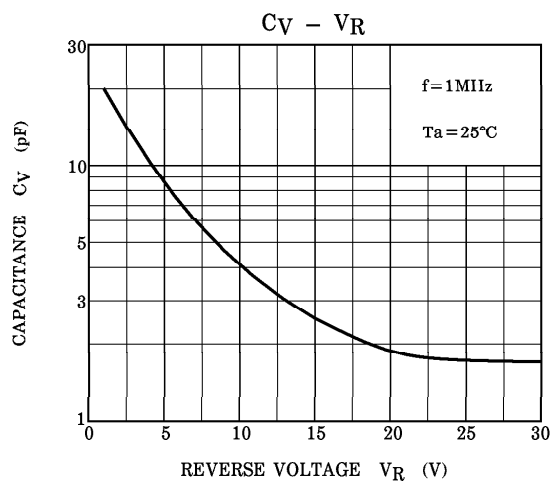
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R=1\mu\text{A}$	30	—	—	V
Reverse Current	I_R	$V_R=28\text{V}$	—	—	10	nA
Capacitance	C_{2V}	$V_R=2\text{V}, f=1\text{MHz}$	14.5	—	16.1	pF
Capacitance	C_{20V}	$V_R=20\text{V}, f=1\text{MHz}$	1.56	—	1.86	pF
Capacitance Ratio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

MARKING



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