

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

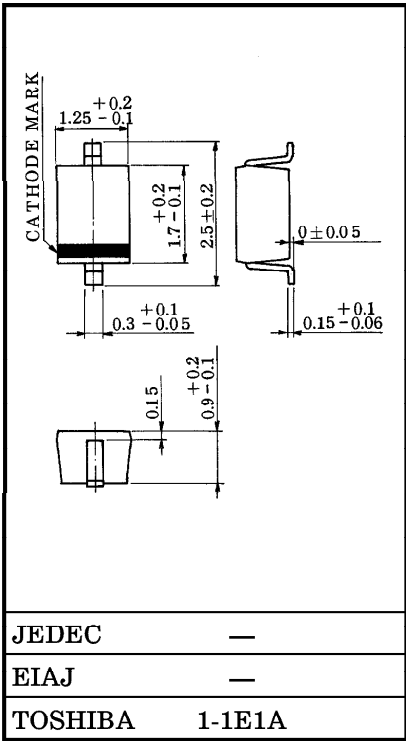
1SV216

TV VHF UHF TUNER AFC

Unit in mm

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 : 0.004g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

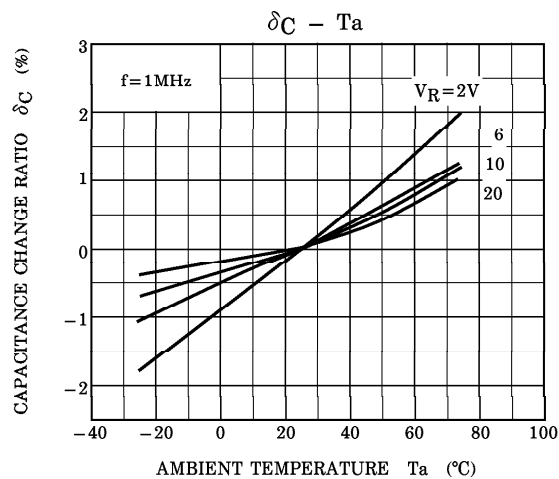
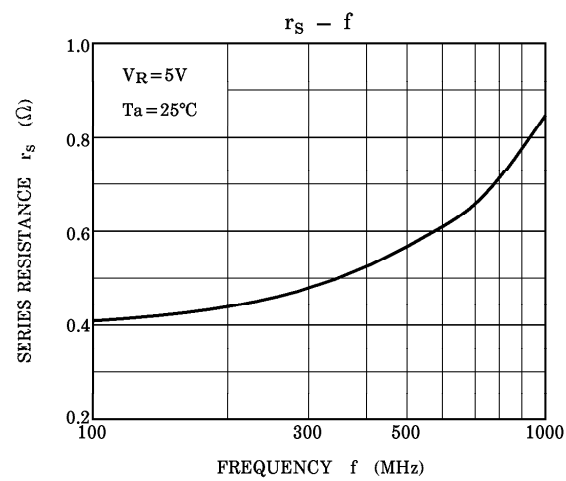
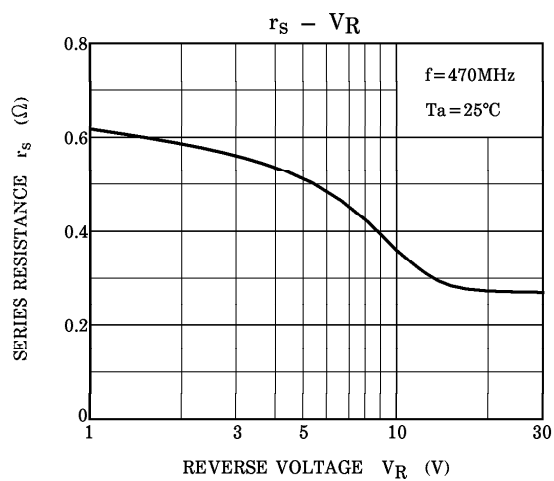
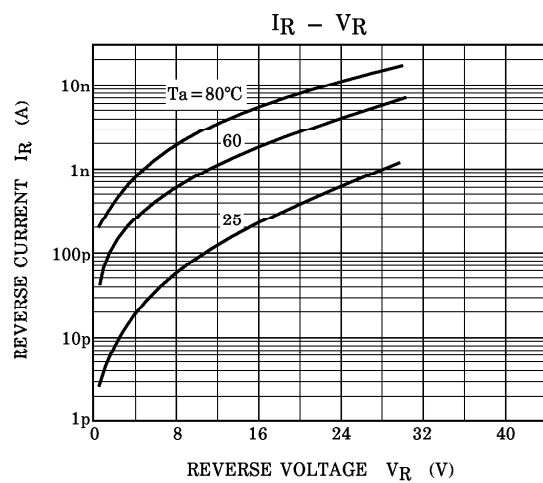
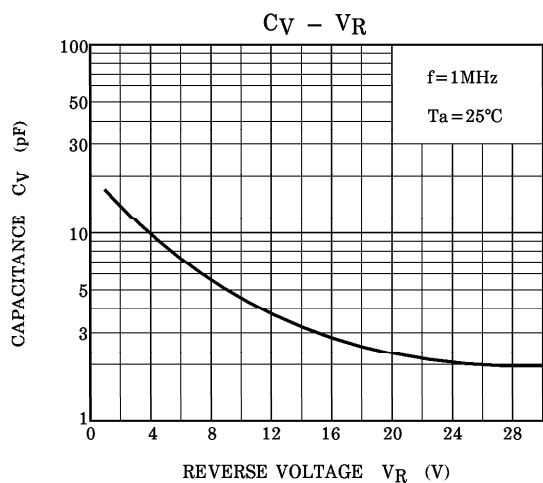
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R = 1\mu A$	30	—	—	V
Reverse Current	I_R	$V_R = 28V$	—	—	10	nA
Capacitance	C_{2V}	$V_R = 2V, f = 1MHz$	10.5	—	16	pF
Capacitance	C_{10V}	$V_R = 10V, f = 1MHz$	3.3	—	5.7	pF
Capacitance Ratio	C_{2V} / C_{10V}	—	2.5	—	3.4	—
Series Resistance	r_s	$V_R = 5V, f = 470MHz$	—	0.55	1.2	Ω

Marking



961001EAA2

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