

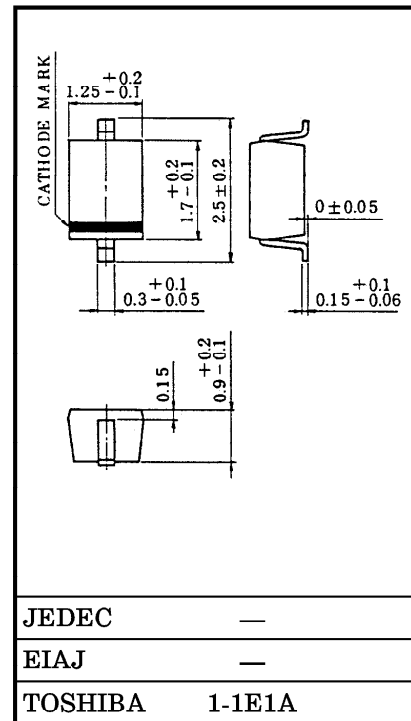
TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

1SV239

VCO FOR UHF RADIO

- Ultra Low Series Resistance : $r_s = 0.44\Omega$ (Typ.)
- Useful for Small Size Set

Unit in mm



Weight : 0.004g

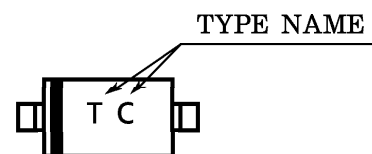
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	15	V
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	-55~125	°C

ELECTRICAL CHARACTERISTIC (Ta = 25°C)

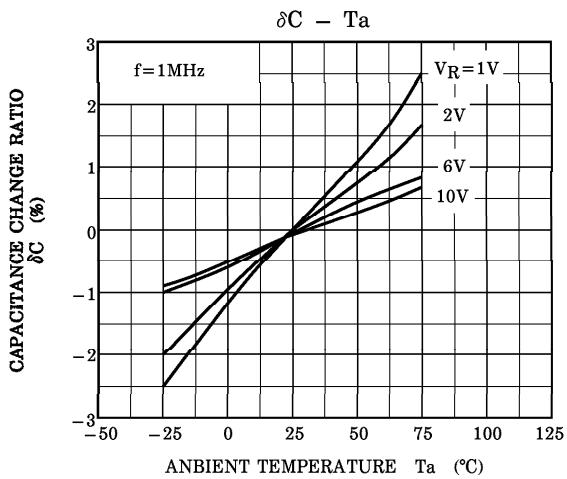
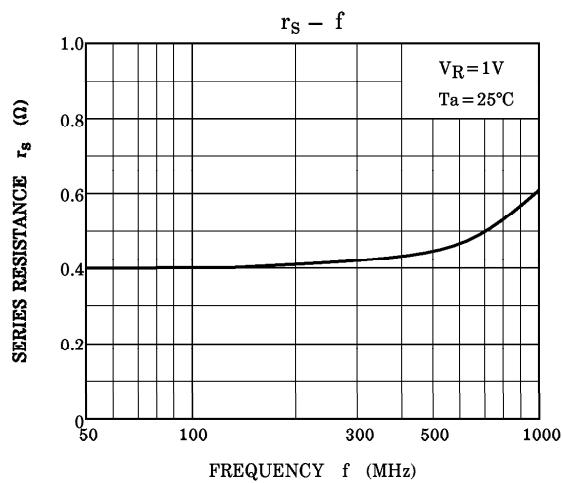
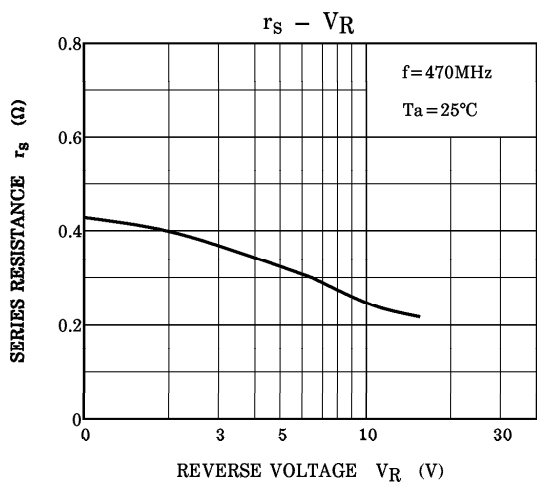
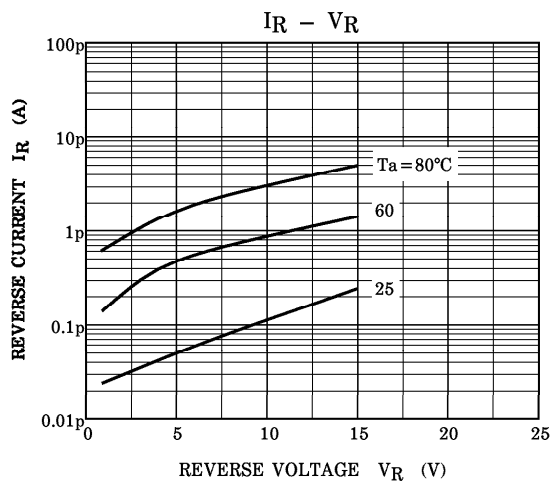
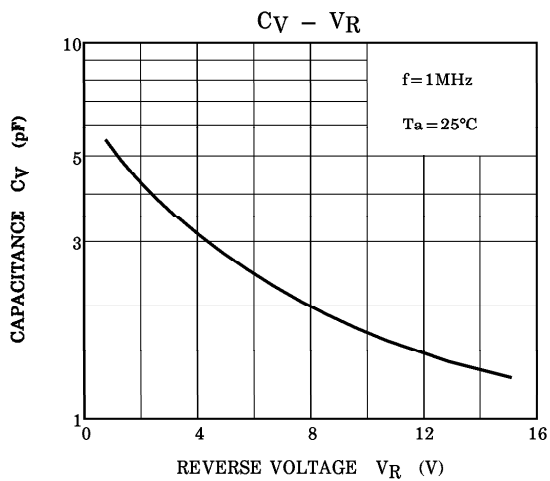
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R = 1\mu A$	15	—	—	V
Reverse Current	I_R	$V_R = 15V$	—	—	3	nA
Capacitance	C2V	$V_R = 2V, f = 1MHz$	3.8	4.25	4.7	pF
Capacitance	C10V	$V_R = 10V, f = 1MHz$	1.5	1.75	2.0	pF
Capacitance Ratio	C2V/C10V	—	2.0	2.4	—	
Series Resistance	r_s	$V_R = 1V, f = 470MHz$	—	0.44	0.6	Ω

Marking



961001EAA2

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