

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

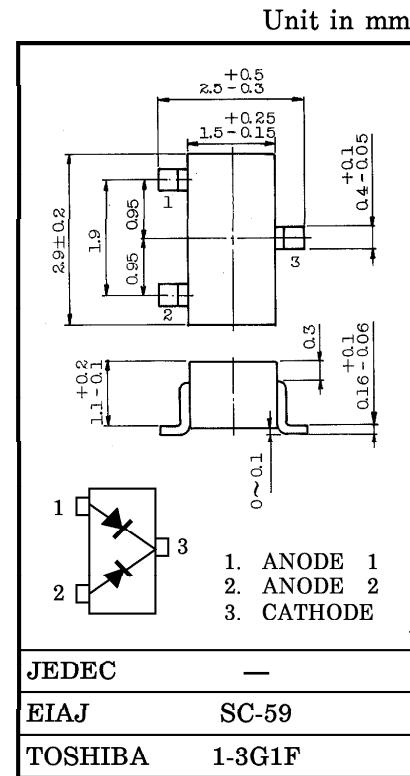
## 1SV225

ELECTRONIC TUNING APPLICATIONS OF FM RECEIVERS.

- Low Series Resistance :  $r_s = 0.35$  (Typ.)
- Small Package

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	32	V
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~125	$^\circ\text{C}$



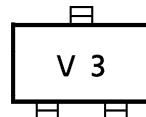
Weight : 0.013g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	$V_R$	$I_R = 10\text{ }\mu\text{A}$	32	—	—	V
Reverse Current	$I_R$	$V_R = 30\text{V}$	—	—	50	nA
Capacitance	$C_{3V}$	$V_R = 3\text{V}, f = 1\text{MHz}$ (Note)	18.5	19.7	21	pF
Capacitance	$C_{30V}$	$V_R = 30\text{V}, f = 1\text{MHz}$ (Note)	6.6	7.2	7.7	pF
Capacitance Ratio	$C_{3V} / C_{30V}$	— (Note)	2.6	—	2.9	—
Series Resistance	$r_s$	$V_R = 3\text{V}, f = 100\text{MHz}$ (Note)	—	0.35	0.5	$\Omega$

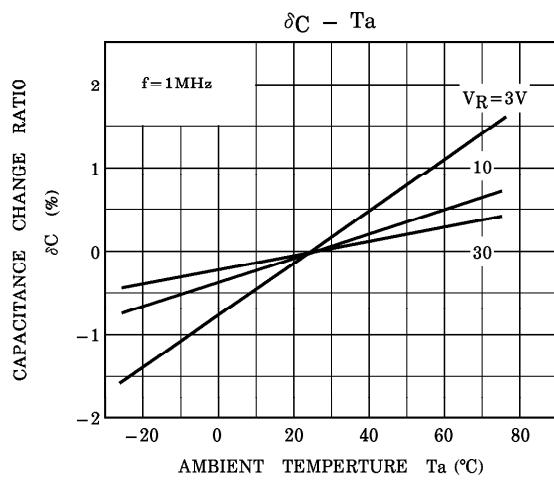
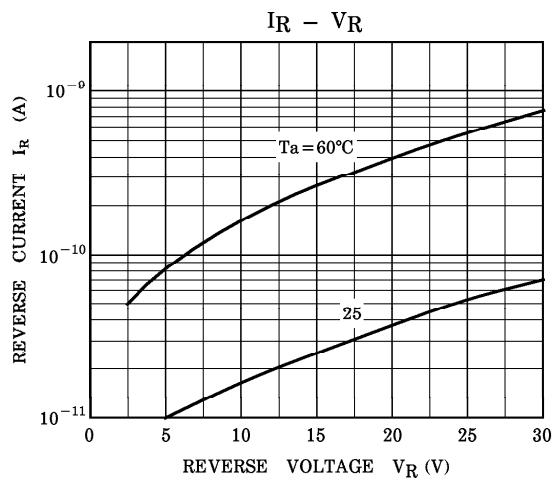
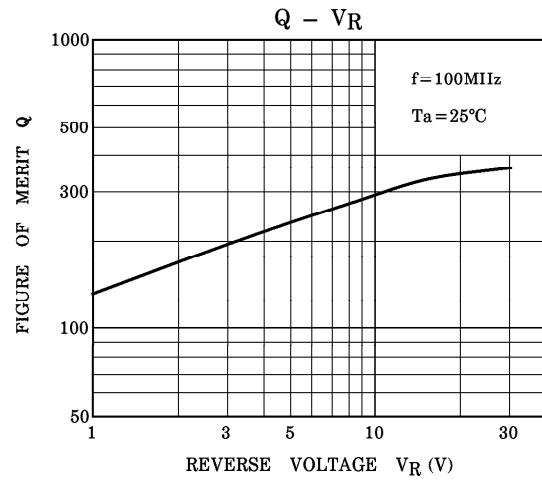
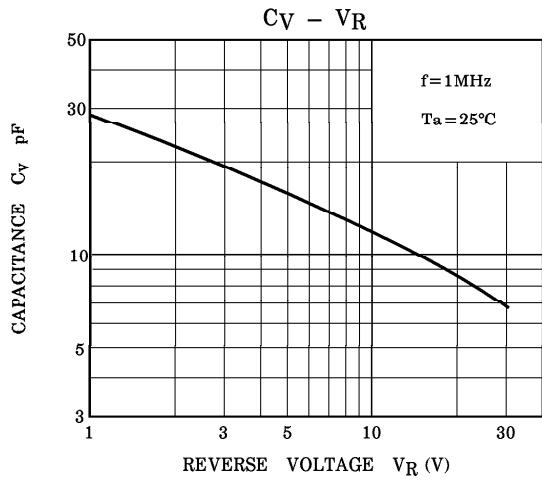
Note : Characteristic between Anode 1 and Anode 2

## Marking



961001EAA2

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