

TOSHIBA VARIABLE CAPACITANCE DIODE SILICON EPITAXIAL PLANAR TYPE

# 1SV160

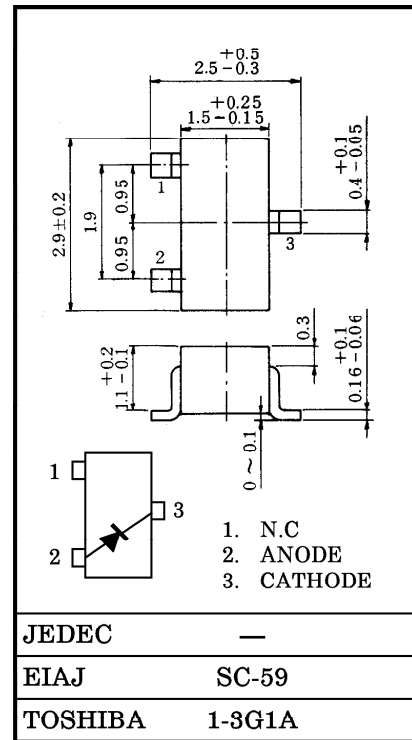
AFC APPLICATION FOR FM RECEIVER

Unit in mm

- Small Package.
- Low Series Resistance :  $r_s = 0.7\Omega$  (Typ.)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	$V_R$	15	V
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55~125	$^\circ\text{C}$

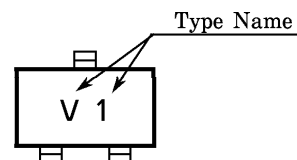


Weight : 0.012g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Current	$I_R$	$V_R = 4\text{V}$	—	—	100	nA
Reverse Voltage	$V_R$	$I_R = 10\mu\text{A}$	15	—	—	V
Total Capacitance	$C_T$	$V_R = 4\text{V}, f = 1\text{MHz}$	7	—	14	pF
Capacitance Ratio	$C_{2V} / C_{4V}$	—	1.2	—	1.5	—
Series Resistance	$r_s$	$V_R = 4\text{V}, f = 50\text{MHz}$	—	0.7	1.2	$\Omega$

Marking



961001EAA2

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