

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09377 DT-07-19

1SV161

Silicon Epitaxial Planar Type

Variable Capacitance Diode

TENTATIVE

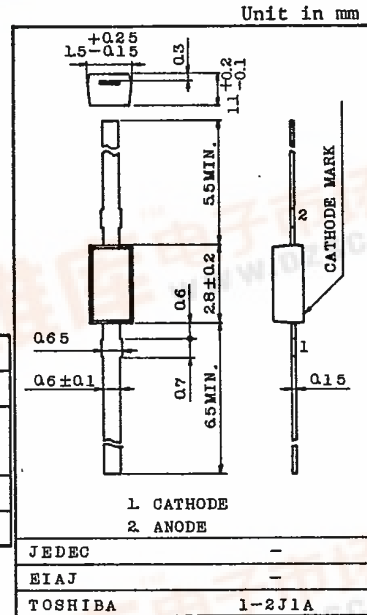
CATV TUNING.

FEATURES:

- High Capacitance Ratio : $C_{2V}/C_{25V}=10.5$ (Typ.)
- Low Series Resistance : $r_s=0.6\Omega$ (Typ.)

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 ~ 125	$^\circ\text{C}$



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

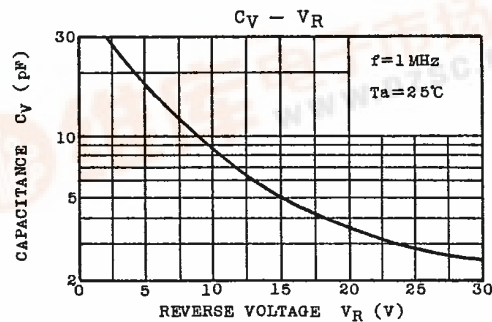
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R=1\mu\text{A}$	30	-	-	V
Reverse Current	I_R	$V_R=28\text{V}$	-	-	10	nA
Capacitance	C_{2V}	$V_R=2\text{V}, f=1\text{MHz}$	26	-	32	pF
Capacitance	C_{25V}	$V_R=25\text{V}, f=1\text{MHz}$	2.5	-	3.2	pF
Capacitance Ratio	C_{2V}/C_{25V}	-	9.5	10.5	-	
Series Resistance	r_s	$V_R=5\text{V}, f=470\text{MHz}$	-	0.6	0.8	Ω

Note : Available in matched group for capacitance to 2.5%.

$$\frac{C(\text{Max.}) - C(\text{Min.})}{C(\text{Min.})} \leq 0.025$$

($V_R=2 \sim 25\text{V}$)

CATHODE MARK: YELLOW



TOSHIBA CORPORATION

