

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09378

D T-07-19

Silicon Epitaxial Planar Type

Variable Capacitance Diode

1SV162

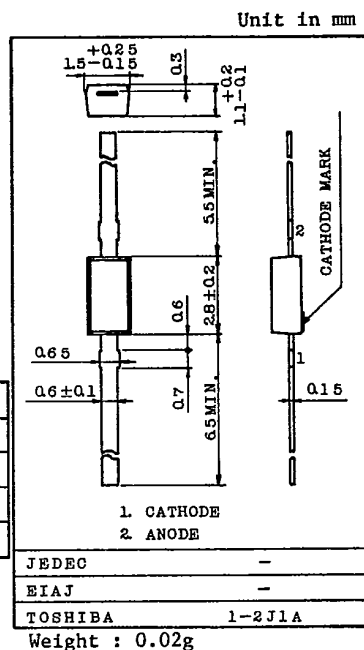
TV TUNER, VHF BAND ELECTRONIC TUNING APPLICATIONS.

FEATURES:

- High Capacitance Ratio : $C_{3V}/C_{25V}=5.0$ (Min.)
- Low Series Resistance : $r_s=0.5\Omega$ (Max.)

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V _R	28	V
Peak Reverse Voltage	V _{RM}	30	V
Junction Temperature	T _j	125	°C
Storage Temperature Range	T _{stg}	-55~125	°C



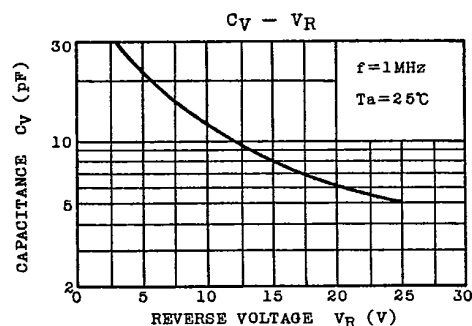
ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R=1\mu A$	28	-	-	V
Reverse Current	I_R	$V_R=28V$	-	-	50	nA
Capacitance	C_{3V}	$V_R=3V, f=1MHz$	26	-	32	pF
Capacitance	C_{25V}	$V_R=25V, f=1MHz$	4.5	-	6.0	pF
Capacitance Ratio	C_{3V}/C_{25V}		5.0	-	6.5	
Series Resistance	r_s	$C=30pF, f=50MHz$	-	-	0.5	Ω

Note : Available in matched group for capacitance to 3.0%.

$$\frac{C(\text{Max.}) - C(\text{Min.})}{C(\text{Min.})} \leq 0.03$$

($V_R = 3V \sim 25V$)



TOSHIBA CORPORATION