

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09312 DT-07-19

Silicon Epitaxial Planar Type

Variable Capacitance Diode

1S2236

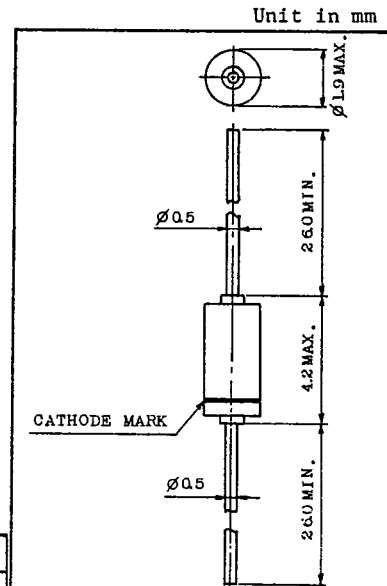
AFC APPLICATION FOR FM RECEIVER.

FEATURES:

- . High Q : Q=70(Min.) (f=50MHz)
- . Low Reverse Current : $I_R=100\text{nA}(\text{Max.})$ ($V_R=4\text{V}$)

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	15	V
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$



JEDEC	D0-35
EIAJ	SC-40
TOSHIBA	1-2A1A

Weight : 0.14g

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
Total Capacitance	C_T	$V_R=4\text{V}, f=1\text{MHz}$	7	-	14	pF
Capacitance Ratio	K	(Note)	0.210	-	0.500	
Figure of Merit	Q	$V_R=4\text{V}, f=50\text{MHz}$	70	120	-	

$$\text{Note : } K = \frac{C_T(@V_R=2\text{V}, f=1\text{MHz}) - C_T(@V_R=4\text{V}, f=1\text{MHz})}{C_T(@V_R=4\text{V}, f=1\text{MHz})}$$

TOSHIBA CORPORATION

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