

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09312 DT-07-19

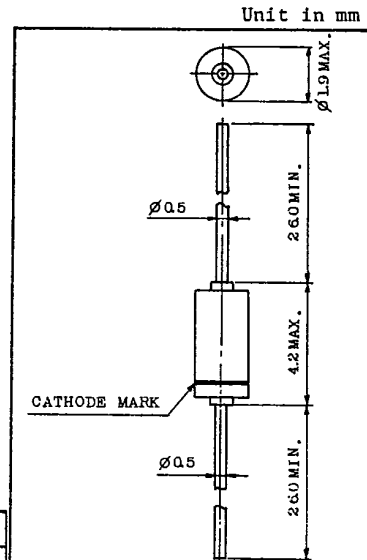
Silicon Epitaxial Planar Type
Variable Capacitance Diode

1S2236

AFC APPLICATION FOR FM RECEIVER.

FEATURES:

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



MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V _R	15	V
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55 ~ 150	°C

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

Weight : 0.14g

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Current	I _R	V _R =4V	-	-	100	nA
Total Capacitance	C _T	V _R =4V, f=1MHz	7	-	14	pF
Capacitance Ratio	K	(Note)	0.210	-	0.500	
Figure of Merit	Q	V _R =4V, f=50MHz	70	120	-	

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

TOSHIBA CORPORATION

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