Silicon Epitaxial Planar Type

Variable Capacitance Diode

1S2236

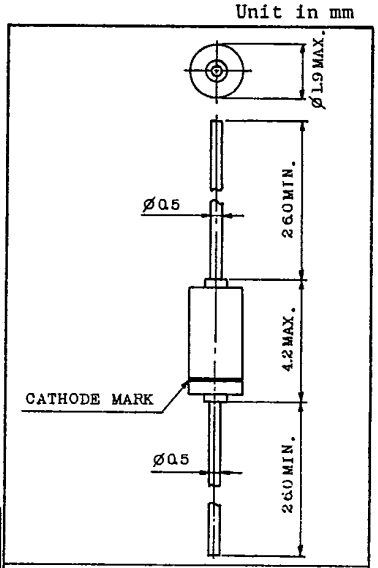
AFC APPLICATION FOR FM RECEIVER.

FEATURES:

. High Q : Q=70(Min.) (f=50MHz)

. Low Reverse Current : I_R=100nA(Max.) (V_R=4V)

Unit in mm



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

Weight : 0.14g

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

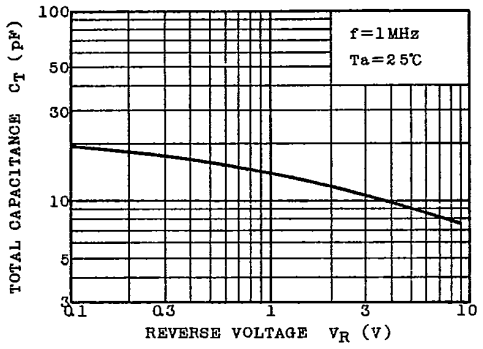
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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	-	

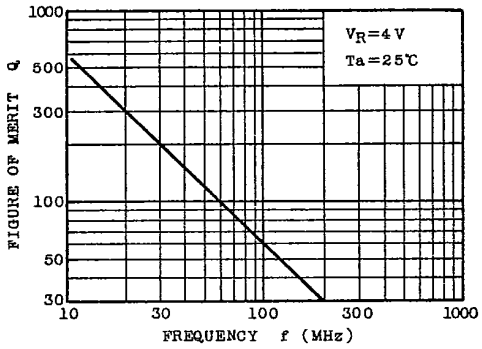
Note : $K = \frac{C_T(@V_R=2V,\ f=1MHz) - C_T(@V_R=4V,\ f=1MHz)}{C_T(@V_R=4V,\ f=1MHz)}$

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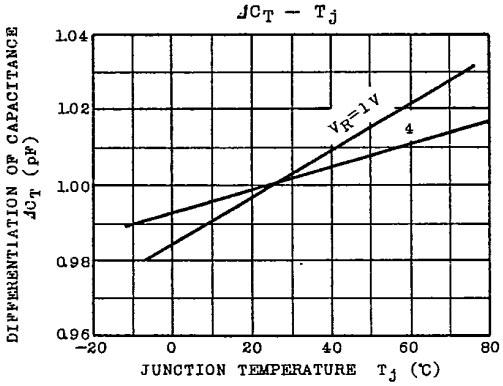
$C_T - V_R$



$Q - f$



$\Delta C_T - T_j$



$Q - V_R$

