

9097250 TOSHIBA (DISCRETE/OPTO)

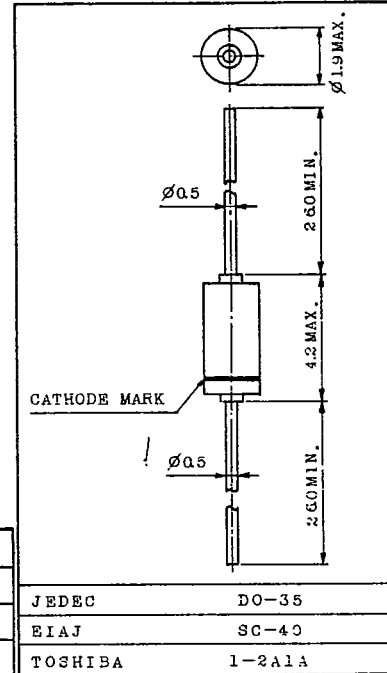
67C 09306 DT-07-19

Silicon Epitaxial Planar Type
Variable Capacitance Diode

1S2094

UHF, VHF AFC APPLICATIONS.

Unit in mm

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V_R	18	V
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$

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	$V_R=4\text{V}$, $f=1\text{MHz}$	7.0	-	11.0	pF
Capacitance Ratio	K	(Note)	1.260	-	1.425	
Figure of Merit	Q	$V_R=4\text{V}$, $f=50\text{MHz}$	150	-	-	

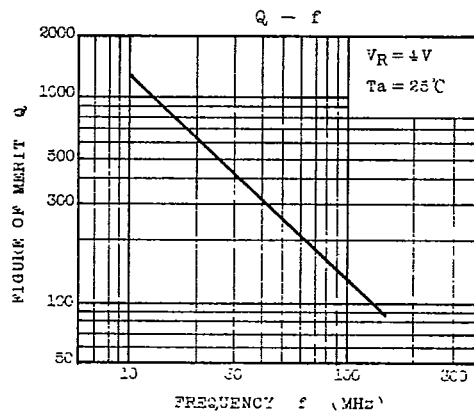
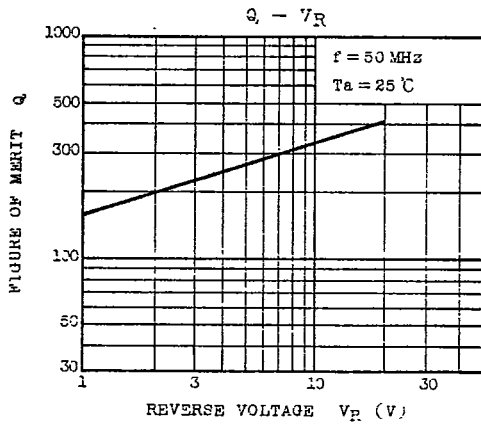
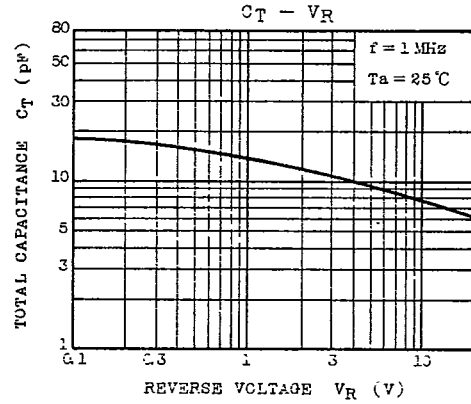
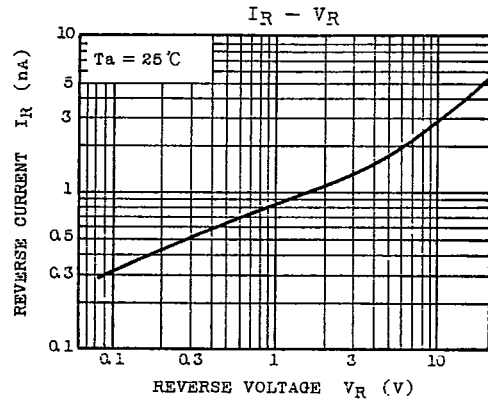
Note : $K = \frac{C_T(\text{at } 4\text{V})}{C_T(\text{at } 10\text{V})}$

TOSHIBA CORPORATION

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09307 D T-07-19

1S2094



TOSHIBA CORPORATION