

9097250 TOSHIBA (DISCRETE/OPTO)

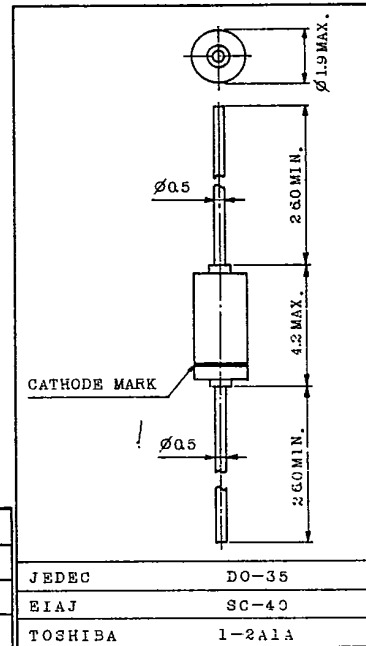
67C 09306 DT-07-19

Silicon Epitaxial Planar Type
Variable Capacitance Diode

1S2094

UHF, VHF AFC APPLICATIONS.

Unit in mm



MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Reverse Voltage	V _R	18	V
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~150	°C

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	7.0	-	11.0	pF
Capacitance Ratio	K	(Note)	1.260	-	1.425	
Figure of Merit	Q	V _R =4V, f=50MHz	150	-	-	

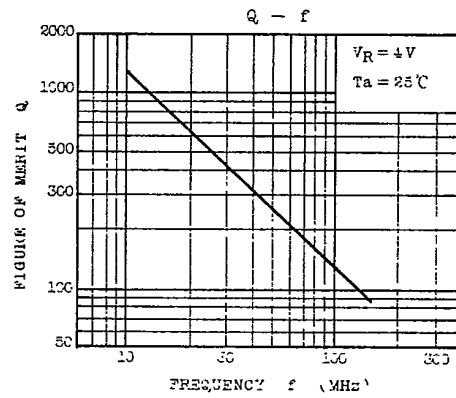
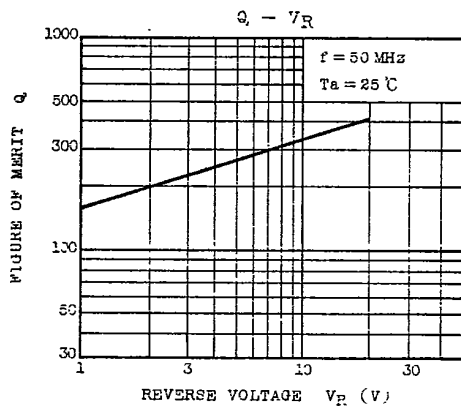
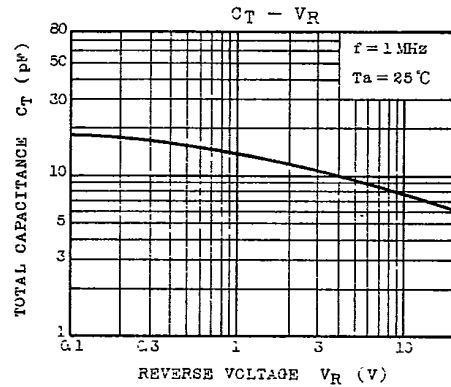
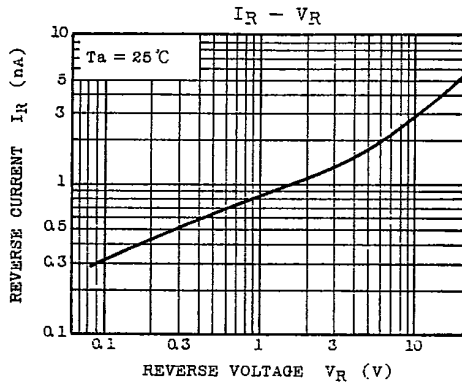
Note : $K = \frac{C_T(\text{at } 4V)}{C_T(\text{at } 10V)}$

TOSHIBA CORPORATION

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