

9097250 TOSHIBA (DISCRETE/OPTO)

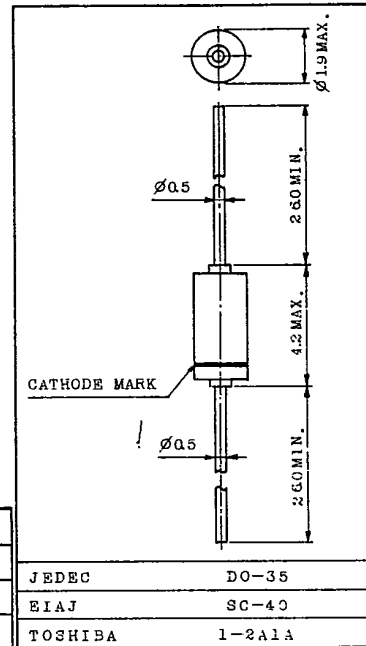
67C 09306 DT-07-19

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 |

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

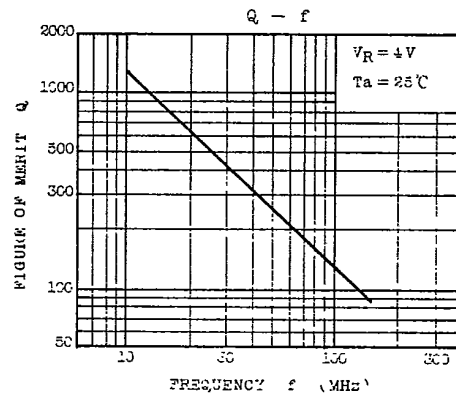
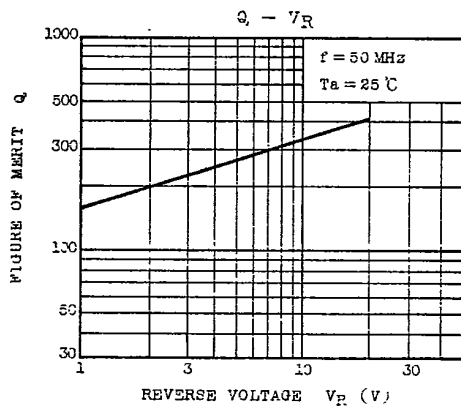
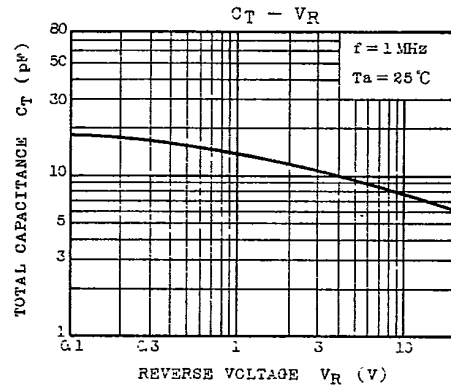
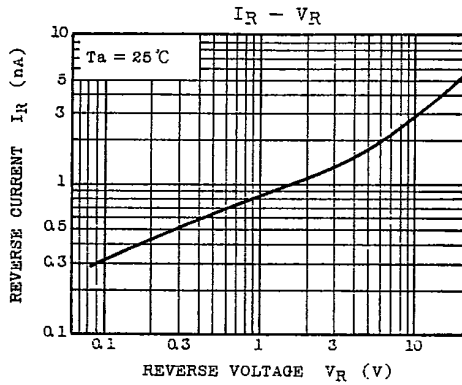
Note : $K = \frac{C_T(\text{at } 4V)}{C_T(\text{at } 10V)}$

TOSHIBA CORPORATION

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TOSHIBA CORPORATION

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