

9097250 TOSHIBA (DISCRETE/OPTO)

67C 09312 DT-07-19

Silicon Epitaxial Planar Type
Variable Capacitance Diode

1S2236

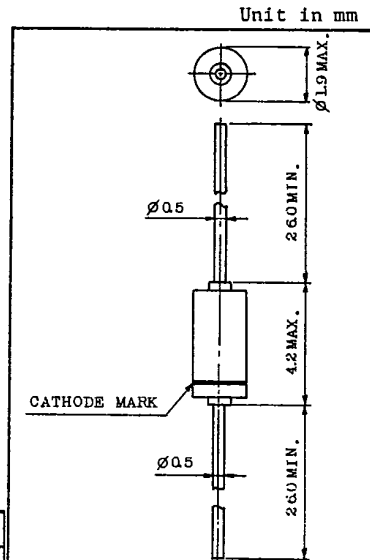
AFC APPLICATION FOR FM RECEIVER.

FEATURES:

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

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

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------|------------------|-----------|------------------|
| Reverse Voltage | V_R | 15 | V |
| Junction Temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | $^\circ\text{C}$ |



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

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 | - | 14 | pF |
| Capacitance Ratio | K | (Note) | 0.210 | - | 0.500 | |
| Figure of Merit | Q | $V_R=4\text{V}, f=50\text{MHz}$ | 70 | 120 | - | |

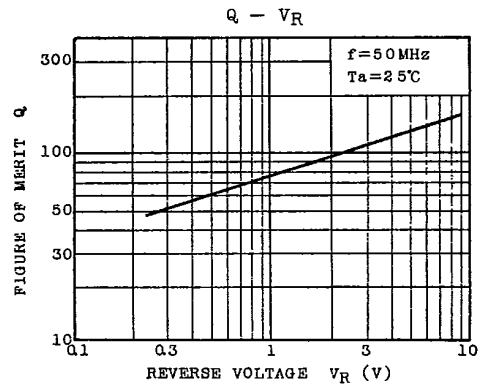
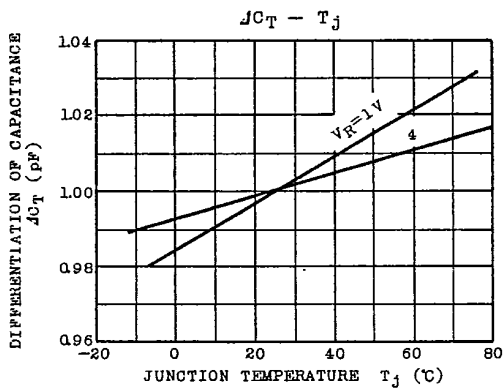
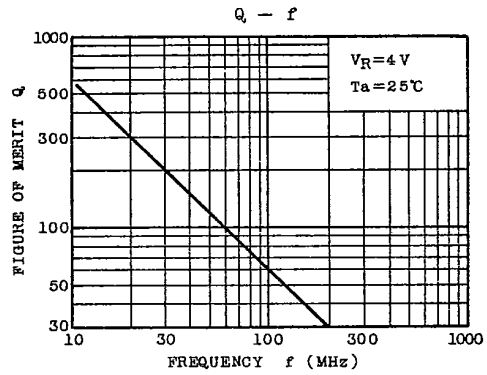
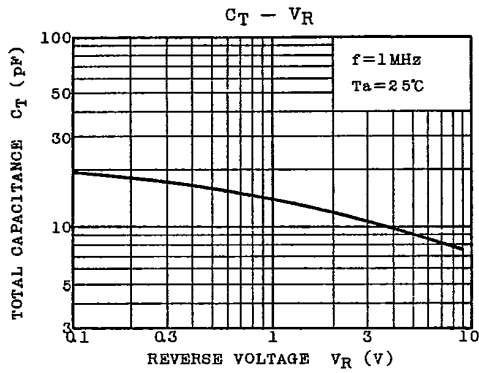
Note : $K = \frac{C_T(@V_R=2\text{V}, f=1\text{MHz}) - C_T(@V_R=4\text{V}, f=1\text{MHz})}{C_T(@V_R=4\text{V}, f=1\text{MHz})}$

TOSHIBA CORPORATION

9097250 TOSHIBA (DISCRETE/OPTO)

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