

FM RADIO BAND TUNING APPLICATION.

FEATURES

- High Capacitance Ratio : $C_{1V}/C_{5V}=5.0(\text{Min.})$
- Excellent C-V Characteristics.
- Variations of Capacitance Values is Little.
- Small Package.

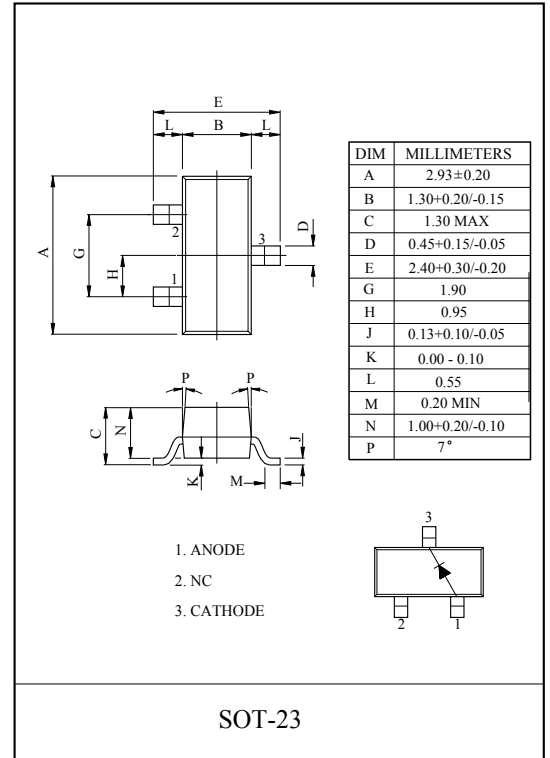
MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------|-----------|-----------|------|
| Reverse Voltage | V_R | 16 | V |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |

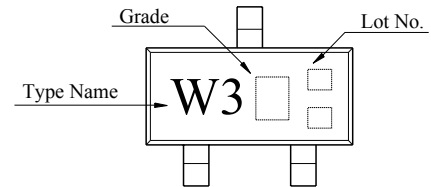
| GRADE | CAPACITANCE(C_{1V}) | UNIT |
|-------|-------------------------|------|
| A | 30.16~33.63 | pF |
| B | 33.30~37.13 | |
| C | 36.77~40.99 | |

ELECTRICAL CHARACTERISTICS (Ta=25°C)

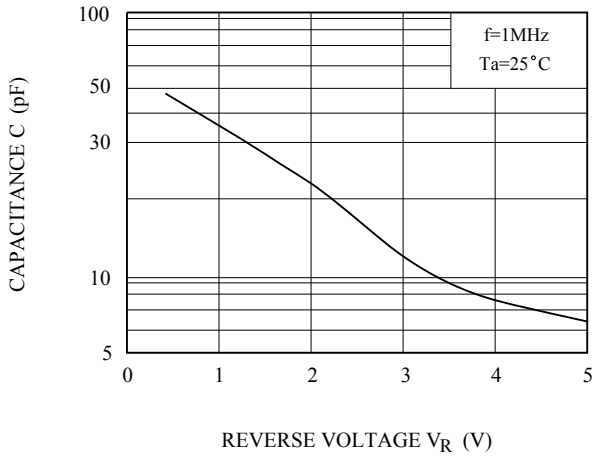
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|-------------------|------------|--------------------------------|-------|-------|-------|----------|
| Reverse Voltage | V_R | $I_R=10\mu A$ | 16 | - | - | V |
| Reverse Current | I_R | $V_R=10V$ | - | - | 50 | nA |
| Capacitance | C_{1V} | $V_R=1V, f=1\text{MHz}$ | 30.16 | 35.60 | 40.99 | pF |
| | $C_{4.5V}$ | $V_R=4.5V, f=1\text{MHz}$ | 6.2 | 7.7 | 9.2 | |
| Capacitance Ratio | K | $C_{1V}/C_{5V}, f=1\text{MHz}$ | 5.0 | - | - | |
| Series Resistance | r_s | $V_R=1.5V, f=100\text{MHz}$ | - | 0.8 | 1.0 | Ω |



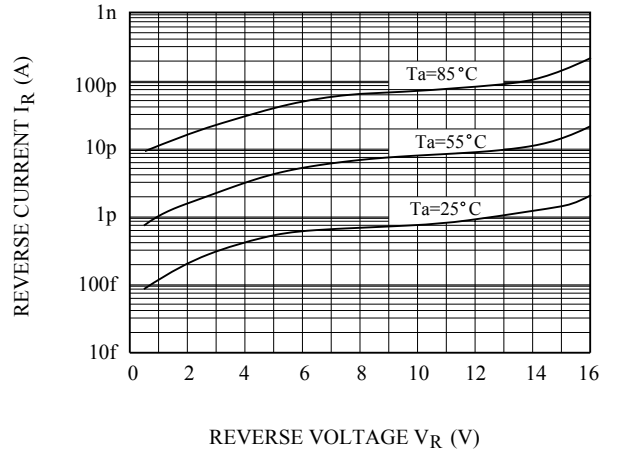
Marking



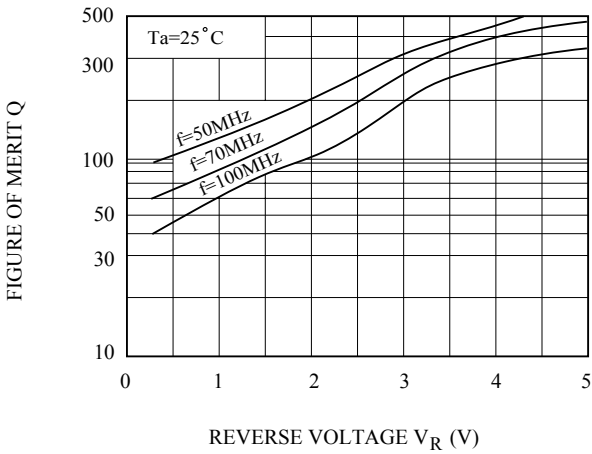
$C_R - V$



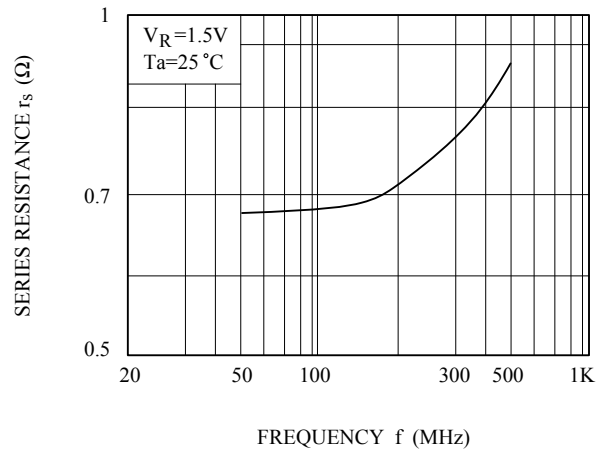
$I_R - V_R$



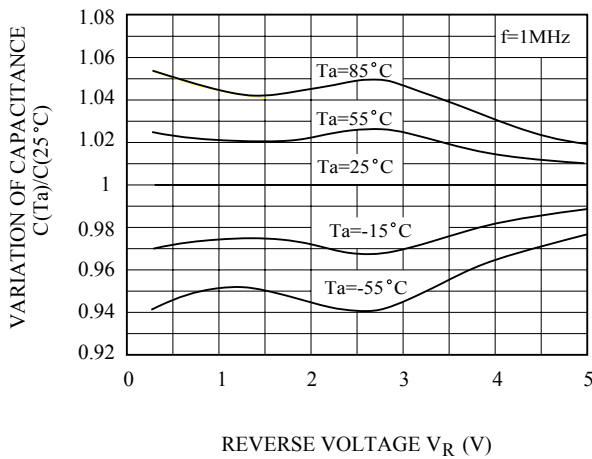
$Q - V_R$



$r_s - f$



$C(T_a)/C(25^\circ\text{C}) - V_R$



$(\text{ppm}/^\circ\text{C}) - V_R$

