

FM RADIO BAND TUNING APPLICATION.

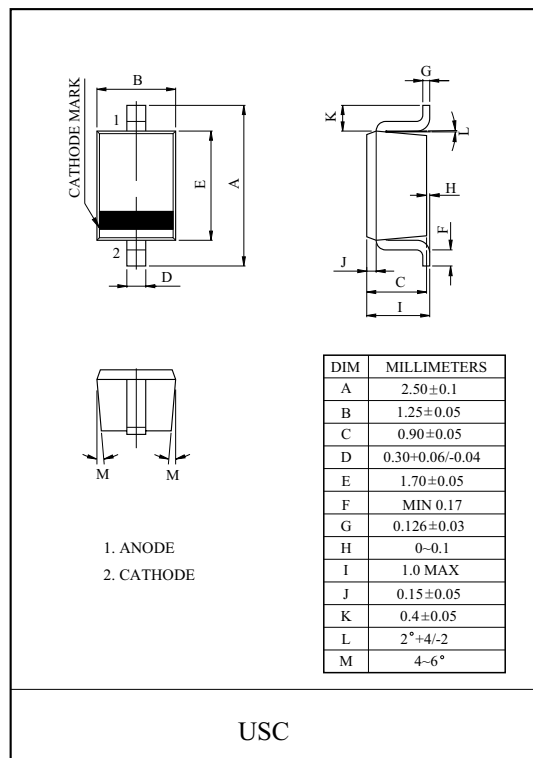
#### FEATURES

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

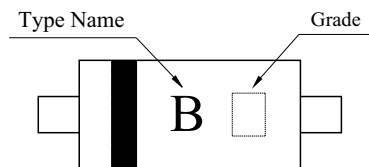
#### MAXIMUM RATING (Ta=25 °C)

| 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             |      |



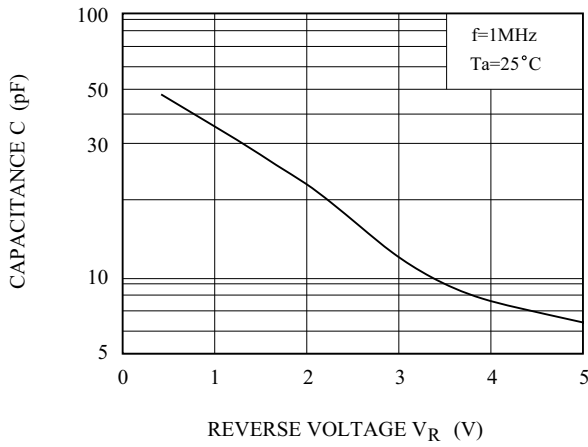
#### Marking



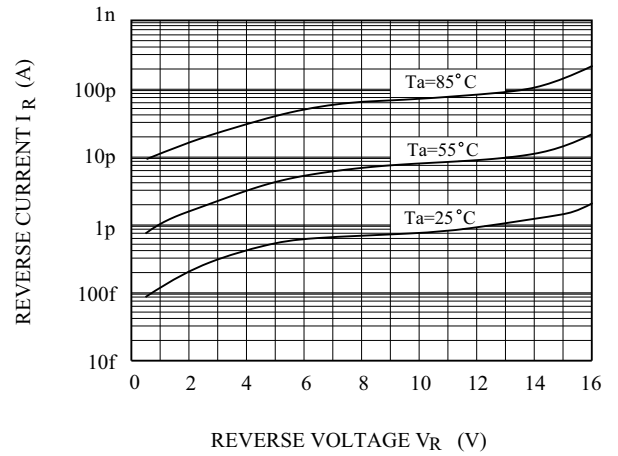
#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| 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       | $C_{1V}$   | $V_R=1V, f=1MHz$        | 30.16 | 35.60 | 40.99 | pF       |
|                   | $C_{4.5V}$ | $V_R=4.5V, f=1MHz$      | 6.2   | 7.7   | 9.2   |          |
| Capacitance Ratio | K          | $C_{1V}/C_{5V}, f=1MHz$ | 5.0   | -     | -     |          |
| Series Resistance | $r_s$      | $V_R=1.5V, f=100MHz$    | -     | 0.8   | 1.0   | $\Omega$ |

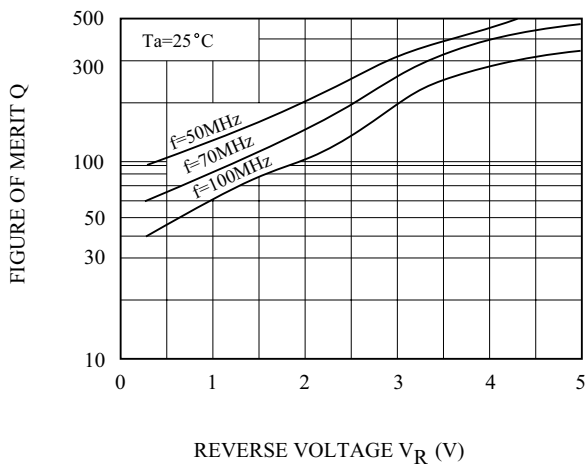
$C - V_R$



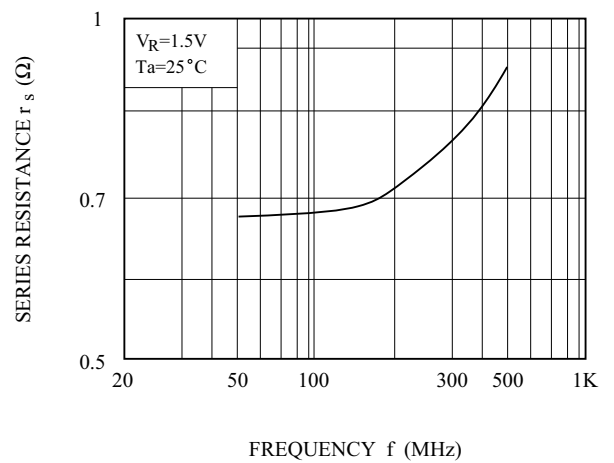
$I_R - V_R$



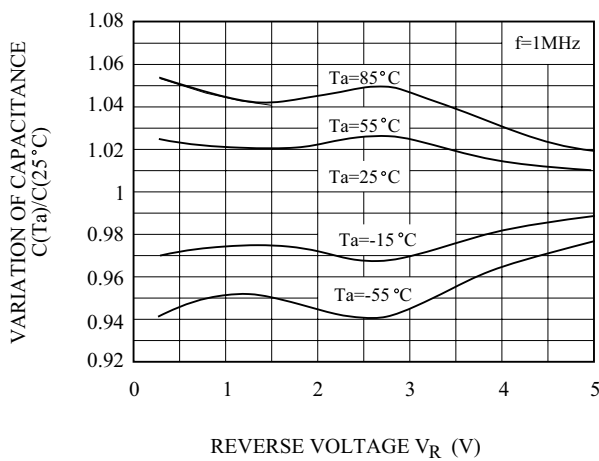
$Q_R - V$



$r_s - f$



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



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

