

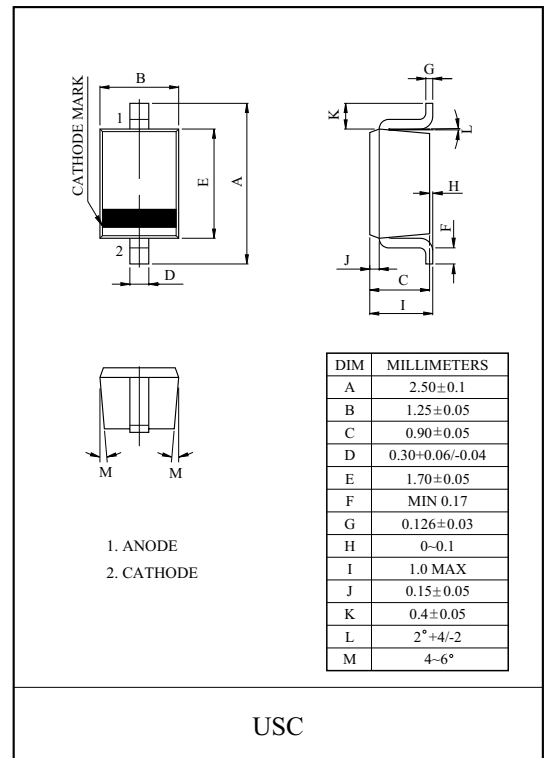
VCO FOR UHF Band Radio.

#### FEATURES

- High Capacitance Ratio :  $C_{1V}/C_{4V} = 2.1(\text{Typ.})$
- Low Series Resistance :  $r_s = 0.28 \Omega(\text{Typ.})$
- Useful for Small Size Tuner.

#### MAXIMUM RATING (Ta=25 °C)

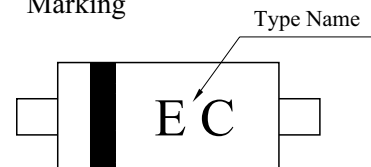
| CHARACTERISTIC            | SYMBOL    | RATING    | UNIT |
|---------------------------|-----------|-----------|------|
| Reverse Voltage           | $V_R$     | 10        | V    |
| Junction Temperature      | $T_j$     | 150       | °C   |
| Storage Temperature Range | $T_{stg}$ | -55 ~ 150 | °C   |



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

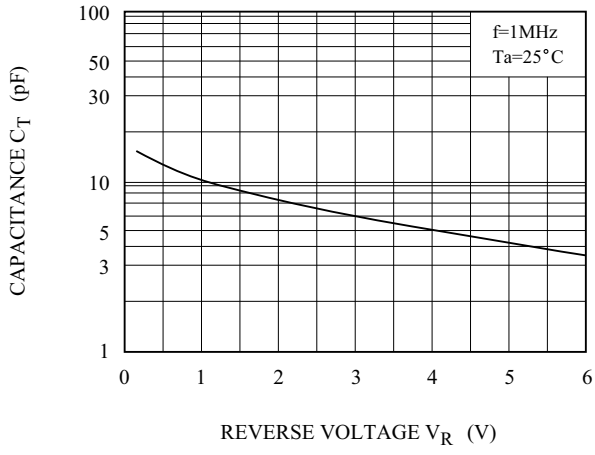
| CHARACTERISTIC    | SYMBOL   | TEST CONDITION            | MIN. | TYP. | MAX. | UNIT     |
|-------------------|----------|---------------------------|------|------|------|----------|
| Reverse Voltage   | $V_R$    | $I_R = 1 \mu A$           | 10   | -    | -    | V        |
| Reverse Current   | $I_R$    | $V_R = 10V$               | -    | -    | 3    | nA       |
| Capacitance       | $C_{1V}$ | $V_R = 1V, f = 1MHz$      | 9.7  | -    | 11.1 | pF       |
|                   | $C_{4V}$ | $V_R = 4V, f = 1MHz$      | 4.45 | -    | 5.45 |          |
| Capacitance Ratio | K        | $C_{1V}/C_{4V}, f = 1MHz$ | 1.8  | 2.1  | -    |          |
| Series Resistance | $r_s$    | $V_R = 1V, f = 470MHz$    | -    | 0.28 | 0.4  | $\Omega$ |

Marking



# KDV240

$C_T - V_R$



$r_s - V_R$

