

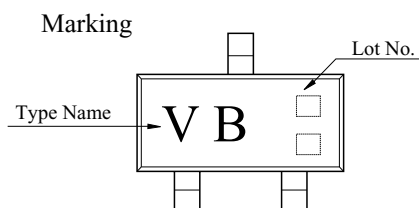
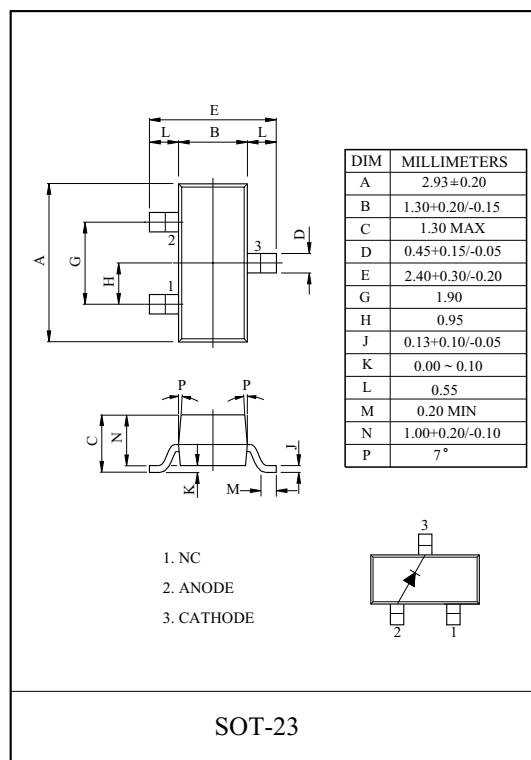
VCO FOR UHF/VHF BAND.

### FEATURES

- High Capacitance Ratio :  $C_{1V}/C_{4V}=1.8$  (Min.)
- Low Series Resistance. :  $r_s=0.9 \Omega$  (Max.)
- Good C-V Linearity.

### MAXIMUM RATING (Ta=25 °C)

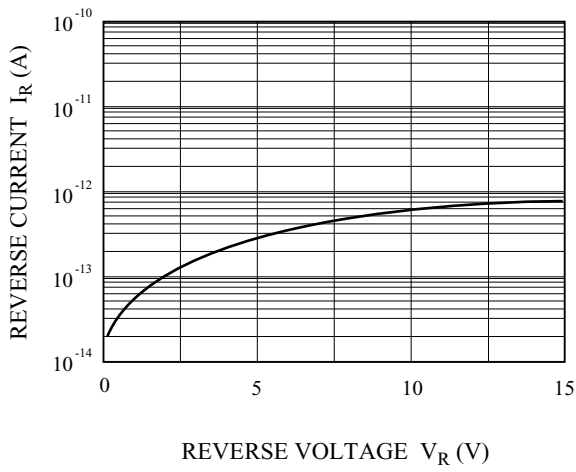
| CHARACTERISTIC            | SYMBOL    | RATING    | UNIT |
|---------------------------|-----------|-----------|------|
| Reverse Voltage           | $V_R$     | 15        | V    |
| Junction Temperature      | $T_j$     | 150       | °C   |
| Storage Temperature Range | $T_{stg}$ | -55 ~ 150 | °C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



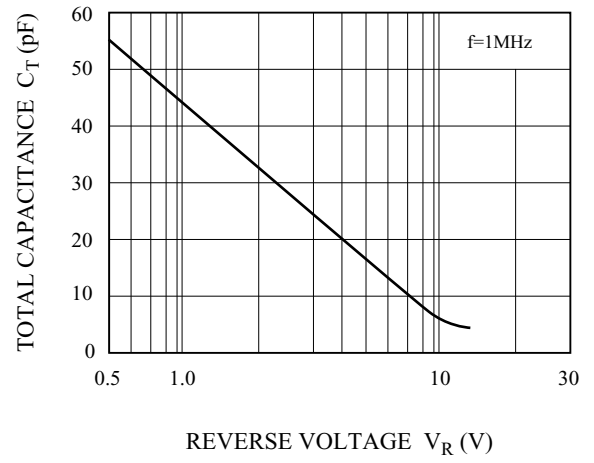
### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC    | SYMBOL          | TEST CONDITION            | MIN. | TYP. | MAX. | UNIT     |
|-------------------|-----------------|---------------------------|------|------|------|----------|
| Reverse Current   | $I_{R1}$        | $V_R=15V$                 | -    | -    | 10   | nA       |
|                   | $I_{R2}$        | $V_R=15V, T_a=60^\circ C$ | -    | -    | 100  |          |
| Capacitance       | $C_{1V}$        | $V_R=1V, f=1MHz$          | 43.0 | -    | 49.0 | pF       |
|                   | $C_{4V}$        | $V_R=4V, f=1MHz$          | 18.5 | -    | 25.5 |          |
| Capacitance Ratio | $C_{1V}/C_{4V}$ | -                         | 1.8  | -    | -    | -        |
| Series Resistance | $r_s$           | $V_R=5V, f=470MHz$        | -    | -    | 0.9  | $\Omega$ |

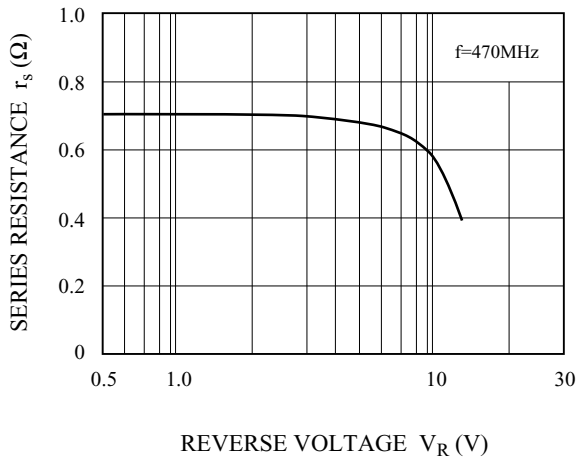
$I_R - V_R$



$C_T - V_R$



$r_s - V_R$



$\Delta(\text{LOG } C_T) / \Delta(\text{LOG } V_R) - V_R$

