

TUNING OF SEPERATE RESONANT CIRCUIT, PUSH-PULL CIRCUIT IN FM RANGE, ESPECIALLY FOR CAR AUDIO.

#### FEATURES

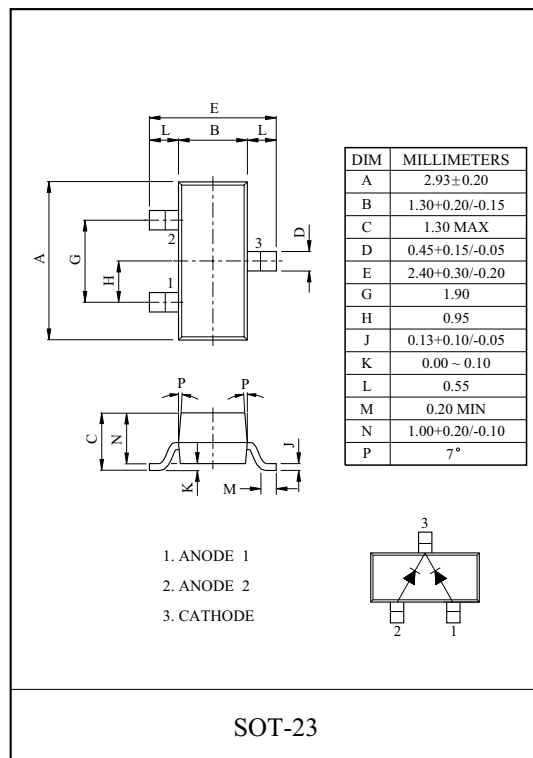
- Low Series Resistance :  $r_s=0.3(\text{TYP.})$ .
- Small Package : SOT-23.

#### MAXIMUM RATING (Ta=25 °C)

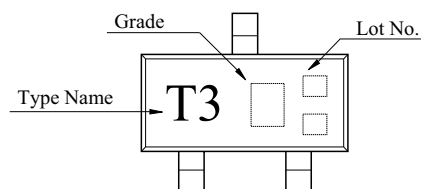
| CHARACTERISTIC            | SYMBOL    | RATING    | UNIT |
|---------------------------|-----------|-----------|------|
| Reverse Voltage           | $V_R$     | 15        | V    |
| Junction Temperature      | $T_j$     | 150       | °C   |
| Storage Temperature Range | $T_{stg}$ | -55 ~ 150 | °C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

#### CLASSIFICATION OF CAPACITANCE RATIO GRADE

| GRADE | CAPACITANCE( $C_{2V}$ ) | UNIT |
|-------|-------------------------|------|
| A     | 42 ~ 43.5               | pF   |
| B     | 43 ~ 44.5               |      |
| C     | 44 ~ 45.5               |      |
| D     | 45 ~ 46.5               |      |
| E     | 46 ~ 47.5               |      |



#### Marking

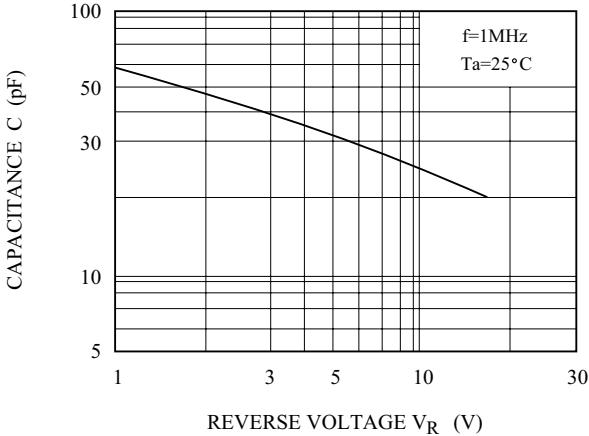


#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC    | SYMBOL          | TEST CONDITION                   | MIN. | TYP. | MAX. | UNIT     |
|-------------------|-----------------|----------------------------------|------|------|------|----------|
| Reverse Voltage   | $V_R$           | $I_R=10\mu\text{A}$              | 15   | -    | -    | V        |
| Reverse Current   | $I_R$           | $V_R=15\text{V}$                 | -    | -    | 50   | nA       |
| Capacitance       | $C_{2V}$        | $V_R=2\text{V}, f=1\text{MHz}$   | 42   | -    | 47.5 | pF       |
|                   | $C_{8V}$        | $V_R=8\text{V}, f=1\text{MHz}$   | 24   | -    | 28.8 |          |
| Capacitance Ratio | $C_{2V}/C_{8V}$ |                                  | 1.74 | -    | 1.85 |          |
| Series Resistance | $r_s$           | $C=38\text{pF}, f=100\text{MHz}$ | -    | 0.3  | 0.4  | $\Omega$ |

# KDV804KS

C - V<sub>R</sub>



Q - V<sub>R</sub>

