

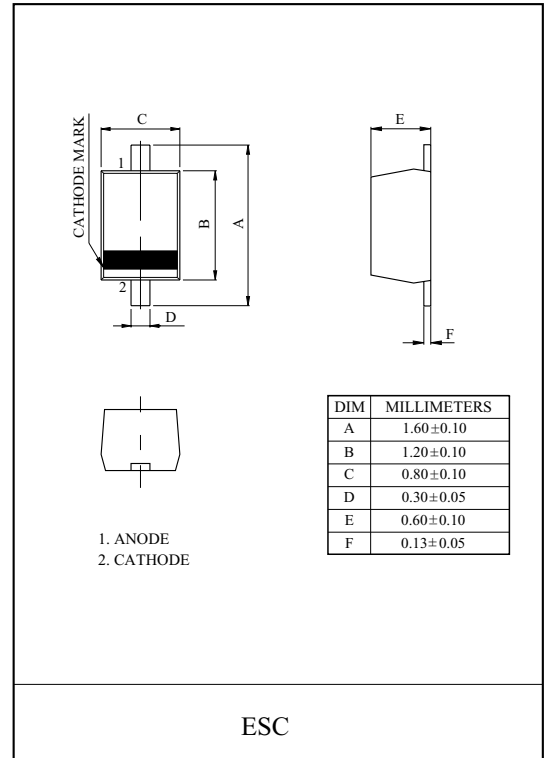
CATV TUNING.

#### FEATURES

- High Capacitance Ratio :  $C_{2V}/C_{25V}=12.5(\text{Typ.})$
- Low Series Resistance :  $r_s=0.6$  (Typ.)
- Excellent C-V Characteristics, and Small Tracking Error.
- Useful for Small Size Tuner.

#### MAXIMUM RATING (Ta=25 )

| CHARACTERISTIC            | SYMBOL    | RATING           | UNIT |
|---------------------------|-----------|------------------|------|
| Reverse Voltage           | $V_R$     | 34               | V    |
| Peak Reverse Voltage      | $V_{RM}$  | 36 ( $R_L=10k$ ) | V    |
| Junction Temperature      | $T_j$     | 125              |      |
| Storage Temperature Range | $T_{stg}$ | -55 125          |      |



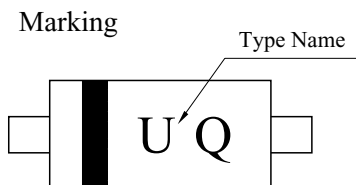
#### ELECTRICAL CHARACTERISTICS (Ta=25 )

| CHARACTERISTIC    | SYMBOL            | TEST CONDITION     | MIN. | TYP. | MAX. | UNIT |
|-------------------|-------------------|--------------------|------|------|------|------|
| Reverse Voltage   | $V_R$             | $I_R=1 \mu A$      | 34   | -    | -    | V    |
| Reverse Current   | $I_R$             | $V_R=28V$          | -    | -    | 10   | nA   |
| Capacitance       | $C_{2V}$          | $V_R=2V, f=1MHz$   | 33   | 35.5 | 38   | pF   |
| Capacitance       | $C_{25V}$         | $V_R=25V, f=1MHz$  | 2.6  | 2.85 | 3.0  | pF   |
| Capacitance Ratio | $C_{2V}/C_{25V}$  |                    | 12.0 | 12.5 | -    | -    |
|                   | $C_{25V}/C_{28V}$ |                    | 1.03 | -    | -    | -    |
| Series Resistance | $r_s$             | $V_R=5V, f=470MHz$ | -    | 0.6  | 0.8  |      |

Note : Available in matched group for capacitance to 2.0%.

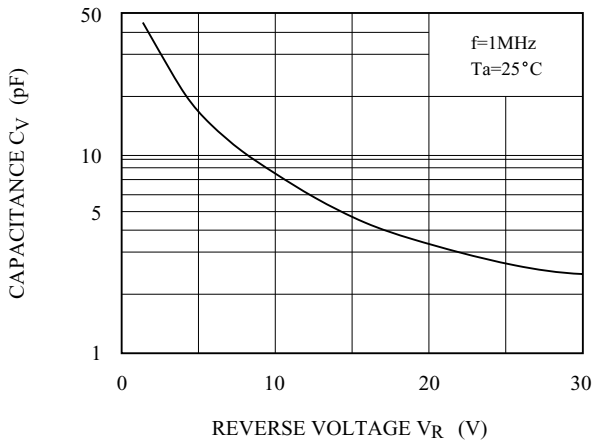
$$\frac{C(\text{Max.})-C(\text{Min.})}{C(\text{Min.})} \leq 0.02$$

$$(V_R=2\sim 25V)$$

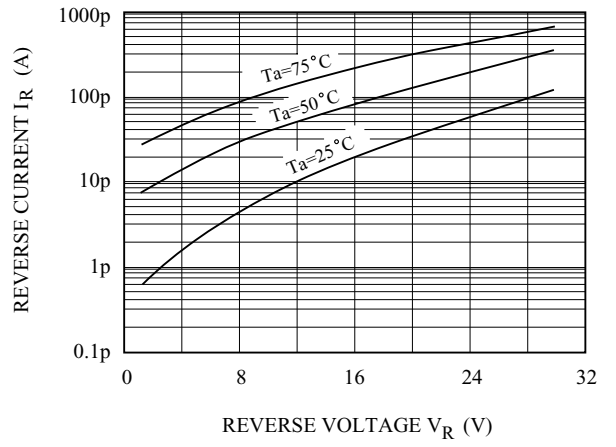


# KDV262E

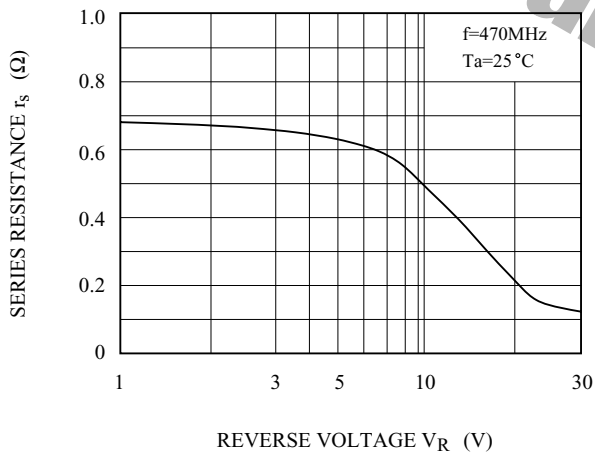
$C_V - V_R$



$I_R - V_R$



$r_s - V_R$



$\delta C - T_a$

