

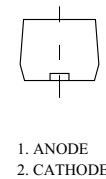
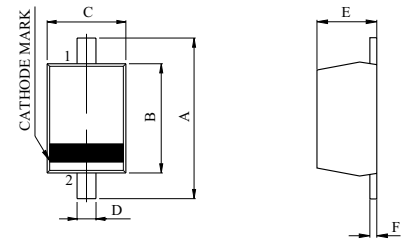
TV TUNING.

#### FEATURES

- High Capacitance Ratio :  $C_{2V}/C_{25V}=6.5$ (Typ.)
- Low Series Resistance :  $r_s=0.4\ \Omega$  (Typ.)
- Excellent C-V Characteristics, and Small Tracking Error.
- Useful for Small Size Tuner.

#### MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC            | SYMBOL    | RATING                  | UNIT |
|---------------------------|-----------|-------------------------|------|
| Reverse Voltage           | $V_R$     | 30                      | V    |
| Peak Reverse Voltage      | $V_{RM}$  | 35( $R_L=10k\ \Omega$ ) | V    |
| Junction Temperature      | $T_j$     | 125                     | ℃    |
| Storage Temperature Range | $T_{stg}$ | -55~125                 | ℃    |

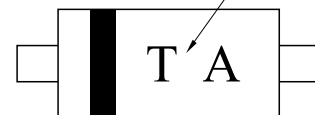


| DIM | MILLIMETERS |
|-----|-------------|
| A   | 1.60±0.10   |
| B   | 1.20±0.10   |
| C   | 0.80±0.10   |
| D   | 0.30±0.05   |
| E   | 0.60±0.10   |
| F   | 0.13±0.05   |

ESC

Marking

Type Name



#### ELECTRICAL CHARACTERISTICS (Ta=25℃)

| CHARACTERISTIC    | SYMBOL           | TEST CONDITION       | MIN.  | TYP. | MAX.  | UNIT     |
|-------------------|------------------|----------------------|-------|------|-------|----------|
| Reverse Current   | $I_R$            | $V_R=30V$            | -     | -    | 10    | nA       |
| Reverse Current   | $I_R$            | $V_R=30V$ , (Ta=60℃) | -     | -    | 100   | nA       |
| Capacitance       | $C_{2V}$         | $V_R=2V$ , f=1MHz    | 14.16 | -    | 16.25 | pF       |
| Capacitance       | $C_{25V}$        | $V_R=25V$ , f=1MHz   | 2.11  | -    | 2.43  | pF       |
| Capacitance Ratio | $C_{2V}/C_{25V}$ |                      | 5.90  | 6.50 | 7.15  | -        |
| Series Resistance | $r_s$            | $V_R=5V$ , f=470MHz  | -     | 0.4  | 0.55  | $\Omega$ |

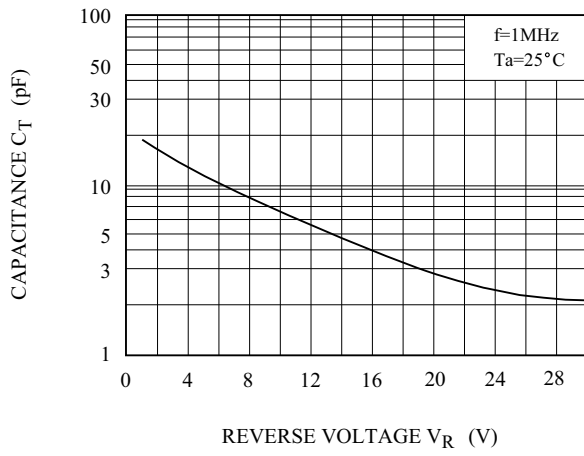
Note : Available in matched group for capacitance to 2.0%.

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

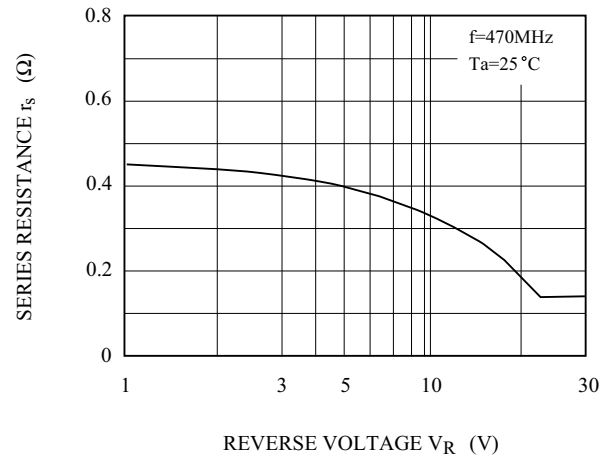
( $V_R=2\sim 25V$ )

# KDV215E

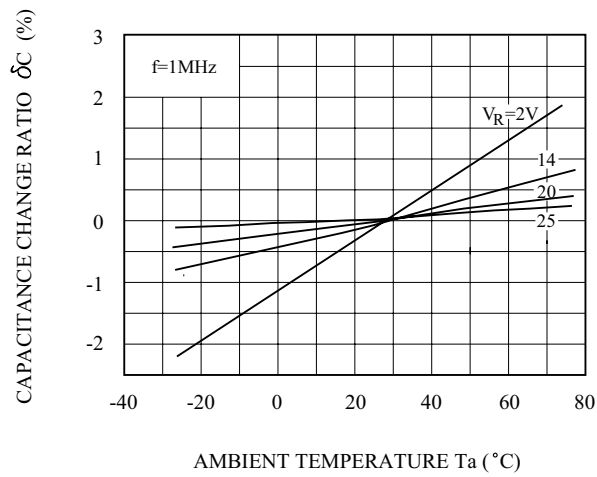
$C_T - V_R$



$r_s - V_R$



$\delta C - T_a$



NOTE :  $\delta C(\%) = \frac{C(T_a) - C(25)}{C(25)} \times 100$