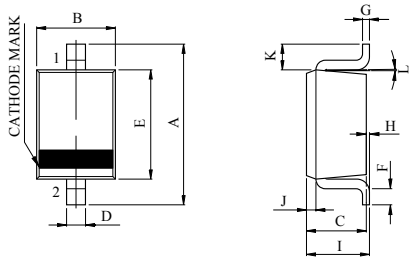
# KDV269

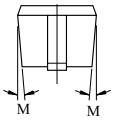
**VARIABLE CAPACITANCE DIODE**
**SILICON EPITAXIAL PLANAR DIODE**

CATV TUNING.

FEATURES

- High Capacitance Ratio : C2V/C25V=11.5(Typ.)
- Low Series Resistance : $r_S$=0.55Ω(Typ.)
- Excellent C-V Characteristics, and Small Tracking Error.
- Useful for Small Size Tuner.




1. ANODE
2. CATHODE

| DIM | MILLIMETERS |
|---|---|
| A | 2.50±0.1 |
| B | 1.25±0.05 |
| C | 0.90±0.05 |
| D | 0.30+0.06/-0.04 |
| E | 1.70±0.05 |
| F | MIN 0.17 |
| G | 0.126±0.03 |
| H | 0~0.1 |
| I | 1.0 MAX |
| J | 0.15±0.05 |
| K | 0.4±0.05 |
| L | 2°+4/-2 |
| M | 4~6° |

USC

MAXIMUM RATING (Ta=25℃)

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

ELECTRICAL CHARACTERISTICS (Ta=25℃)

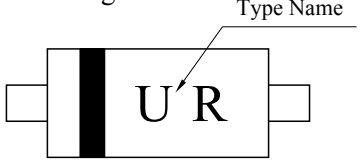
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Reverse Voltage | $V_R$ | $I_R$=1μA | 34 | - | - | V |
| Reverse Current | $I_R$ | $V_R$=28V | - | - | 10 | nA |
| Capacitance | $C_{2V}$ | $V_R$=2V, f=1MHz | 29 | 31.5 | 34 | pF |
| Capacitance | $C_{25V}$ | $V_R$=25V, f=1MHz | 2.5 | 2.75 | 2.9 | pF |
| Capacitance Ratio | $C_{2V}/C_{25V}$ | | 11.0 | 11.5 | - | - |
| | $C_{25V}/C_{28V}$ | | 1.03 | 1.05 | - | |
| Series Resistance | $r_S$ | $V_R$=5V, f=470MHz | - | 0.55 | 0.7 | Ω |

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

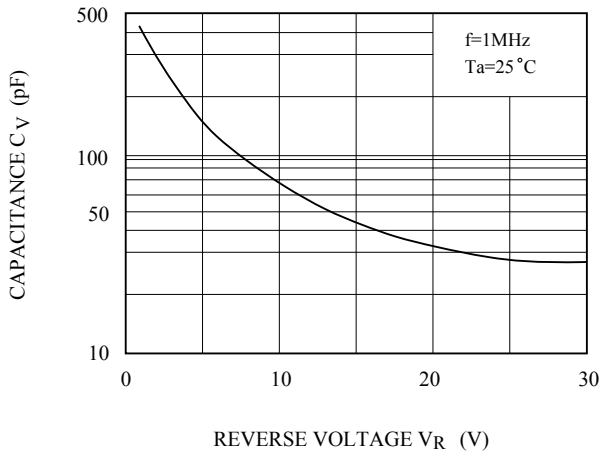
$$\frac{C(Max.)-C(Min.)}{C(Min.)} \leqq 0.02$$

($V_R$=2~25V)

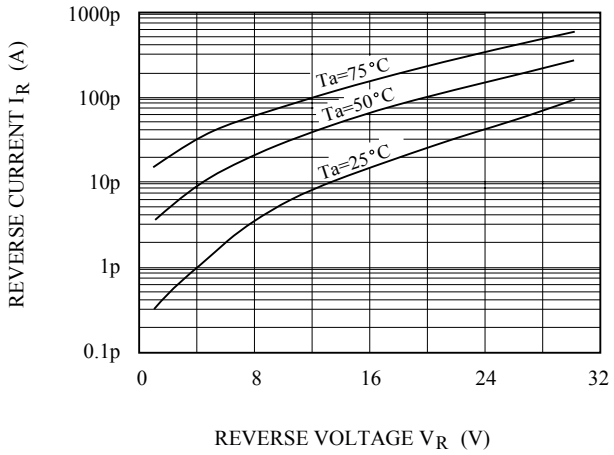
Marking



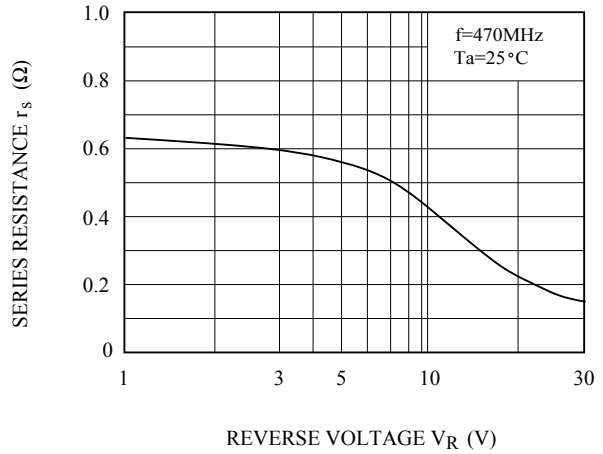
$C_V$ - $V_R$



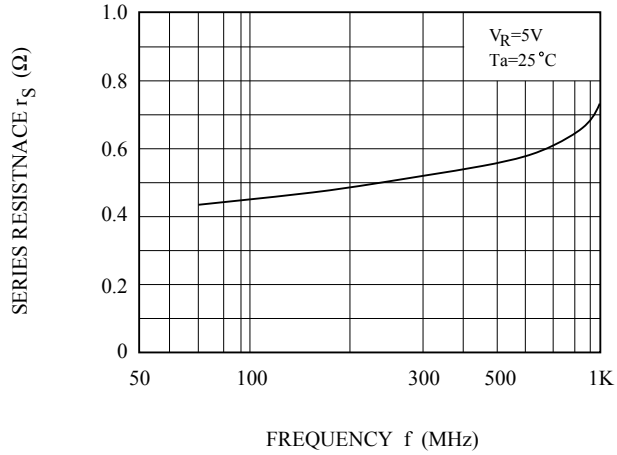

$I_R$ - $V_R$




$r_s$ - $V_R$




$r_S$ - f




$\delta$C - Ta

