

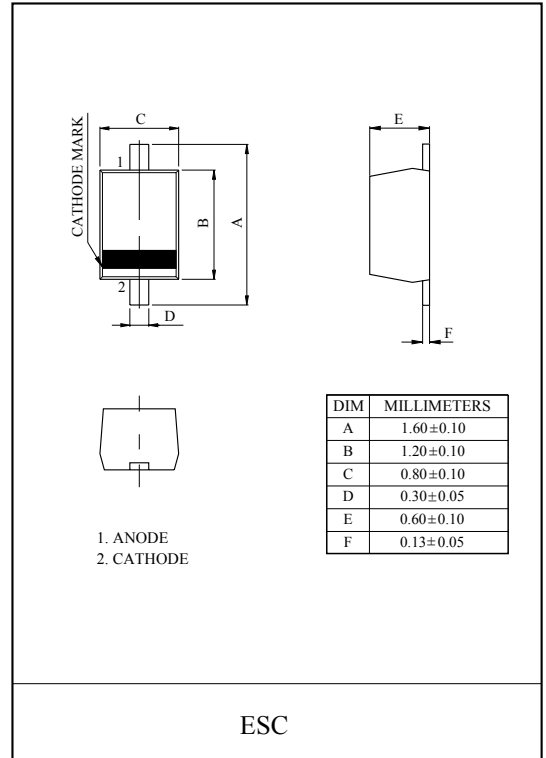
CATV TUNING.

#### FEATURES

- High Capacitance Ratio :  $C_{2V}/C_{25V}=11.5(\text{Typ.})$
- Low Series Resistance :  $r_s=0.55\Omega(\text{Typ.})$
- Excellent C-V Characteristics, and Small Tracking Error.
- Useful for Small Size Tuner.

#### MAXIMUM RATING (Ta=25°C)

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



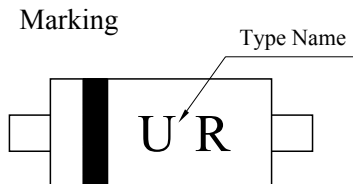
#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

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	$C_{2V}$	$V_R=2V, f=1MHz$	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	$\Omega$

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

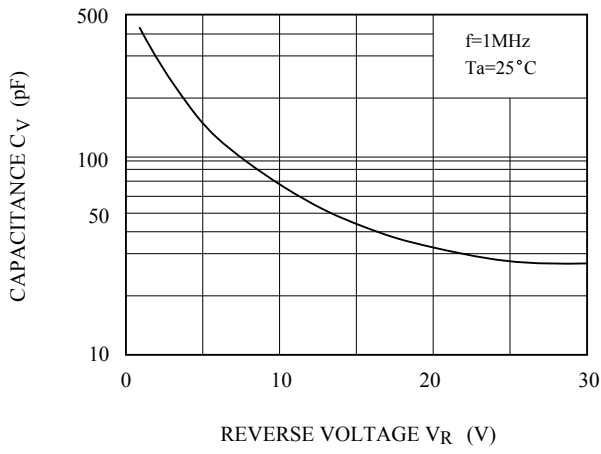
$$\frac{C(\text{Max.})-C(\text{Min.})}{C(\text{Min.})} \leq 0.02$$

( $V_R=2\sim 25V$ )

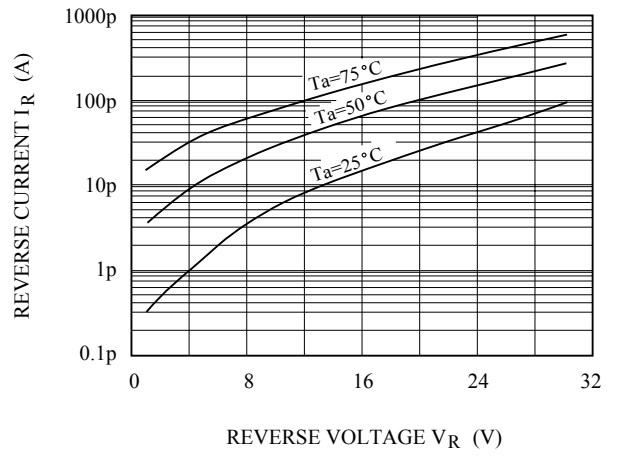


# KDV269E

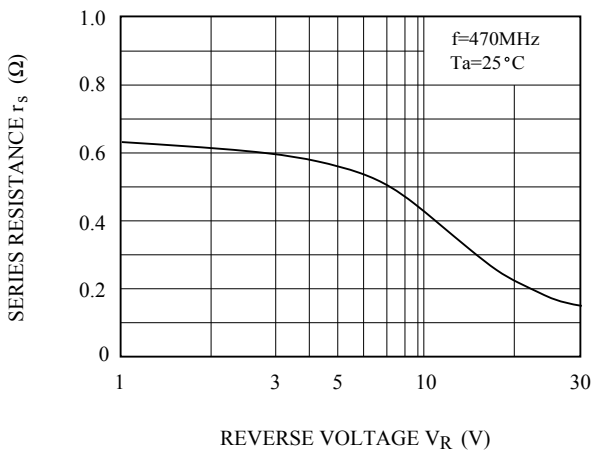
$C_V - V_R$



$I_R - V_R$



$r_s - V_R$



$\delta C - T_a$

