

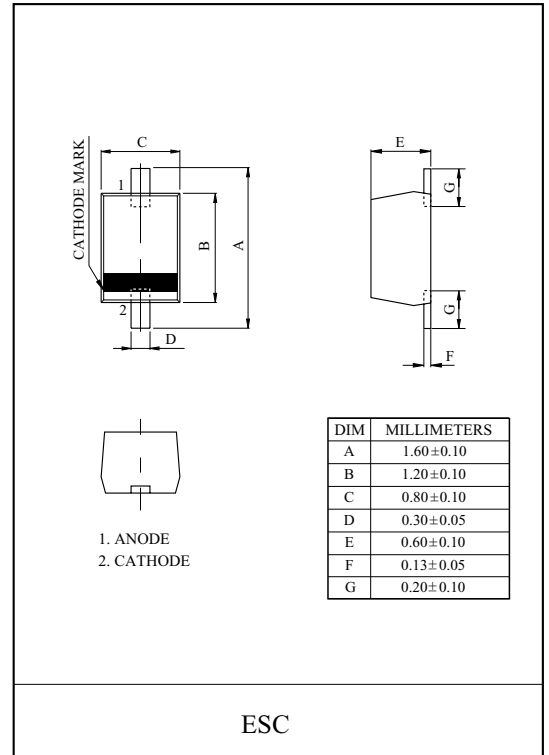
TV TUNING.

FEATURES

- High Capacitance Ratio : $C_{2V}/C_{25V}=6.5(\text{Typ.})$
- Low Series Resistance : $r_s=0.4$ (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}	$35(R_L=10k)$	V
Junction Temperature	T_j	125	
Storage Temperature Range	T_{stg}	-55 125	



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	

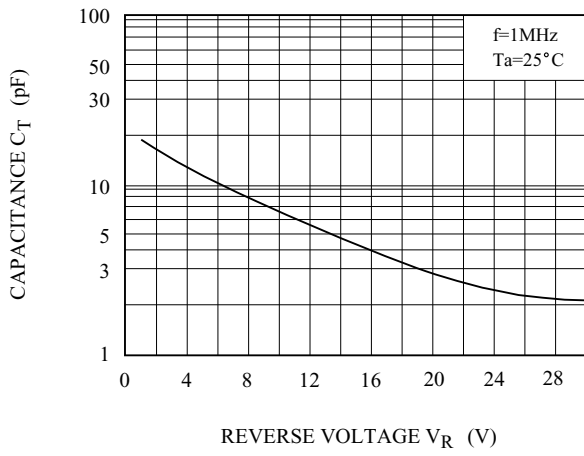
Note : Available in matched group for capacitance to 2.0%.

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

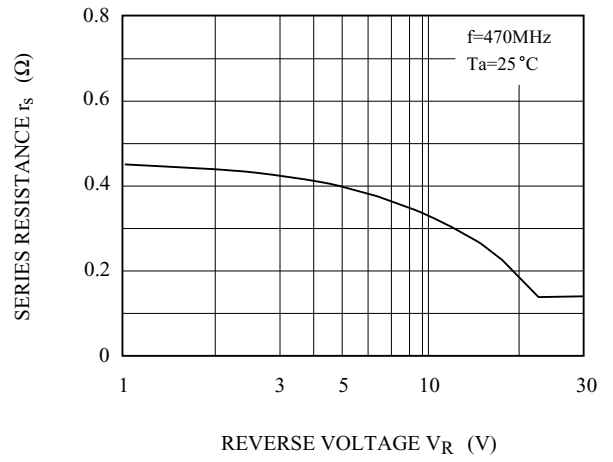
$$(V_R=2\sim 25V)$$

KDV215E

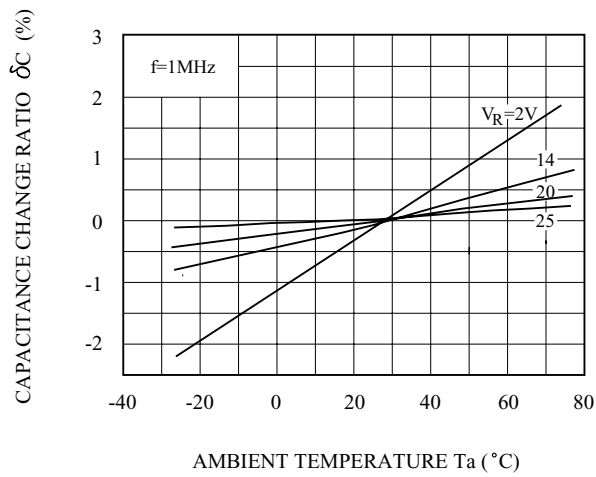
$C_T - V_R$



$r_s - V_R$



$\delta C - T_a$



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