

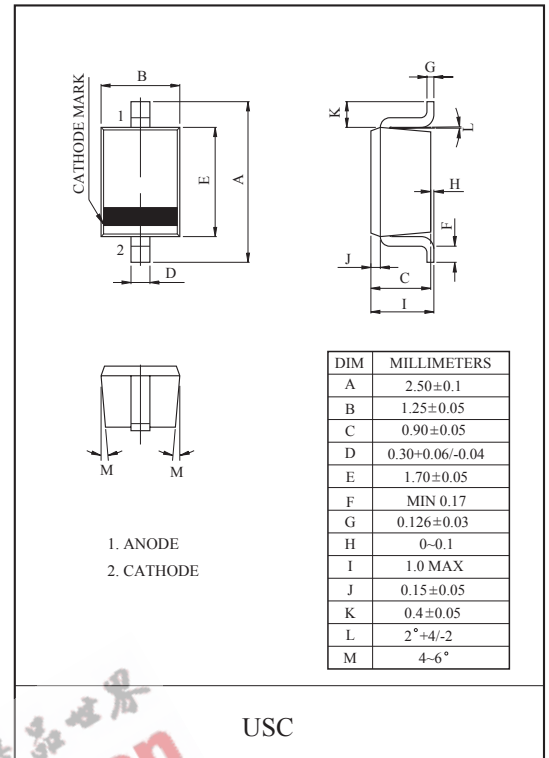
TV TUNING.

FEATURES

- High Capacitance Ratio : $C_{2V}/C_{25V}=6.5(\text{Typ.})$
- Low Series Resistance : $r_s=0.4\Omega(\text{Typ.})$
- 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	30	V
Peak Reverse Voltage	V_{RM}	35 ($R_L=10k\Omega$)	V
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	-55 ~ 125	°C



ELECTRICAL CHARACTERISTICS (Ta=25°C)

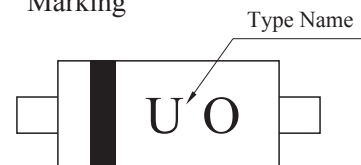
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Voltage	V_R	$I_R=1\mu A$	30	-	-	V
Reverse Current	I_R	$V_R=28V$	-	-	10	nA
Capacitance	C_{2V}	$V_R=2V, f=1MHz$	14.16	-	16.25	pF
Capacitance	C_{25V}	$V_R=25V, f=1MHz$	2.11	-	2.43	pF
Capacitance Ratio	C_{2V}/C_{25V}		5.90	6.50	7.15	-
Series Resistance	r_s	$V_R=5V, f=470MHz$	-	0.4	0.55	Ω

Note : Available in matched group for capacitance to 2.5%.

$$\frac{C(\text{Max.})-C(\text{Min.})}{C(\text{Min.})} \leq 0.025$$

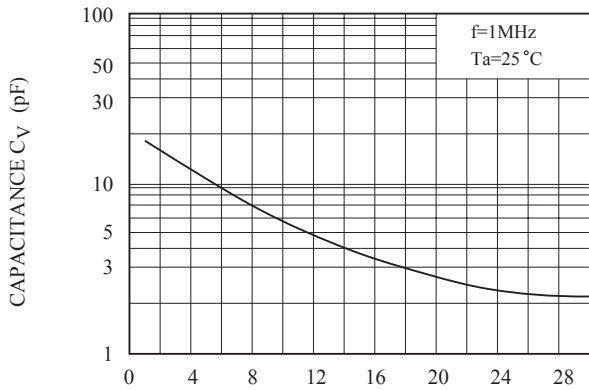
$$(V_R=2\sim 25V)$$

Marking



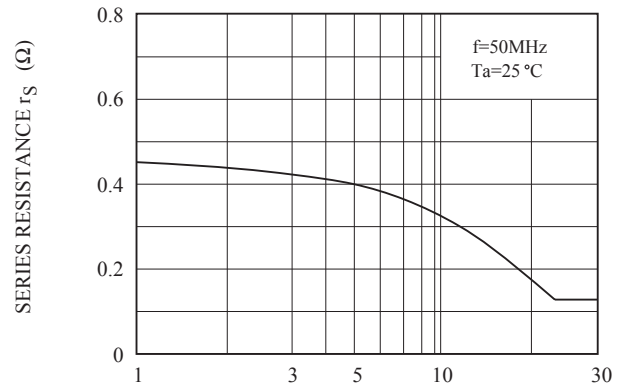
KDV214

$C_V - V_R$



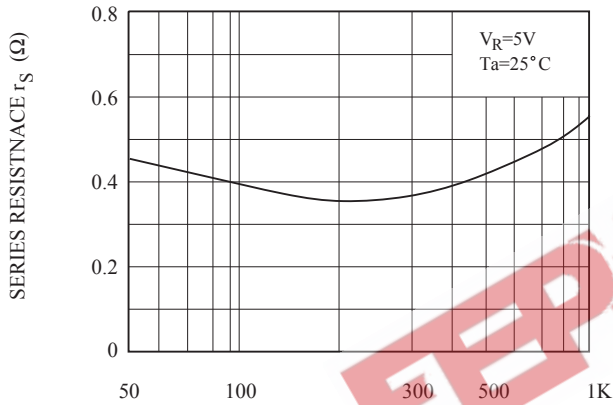
REVERSE VOLTAGE V_R (V)

$r_s - V_R$



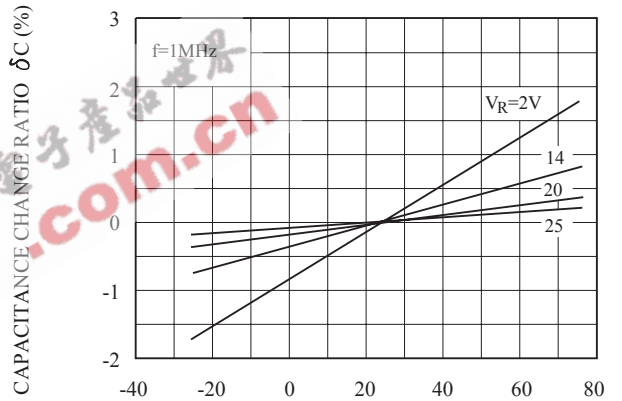
REVERSE VOLTAGE V_R (V)

$r_s - f$



FREQUENCY f (MHz)

$\delta C - T_a$



AMBIENT TEMPERATURE T_a (°C)

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