

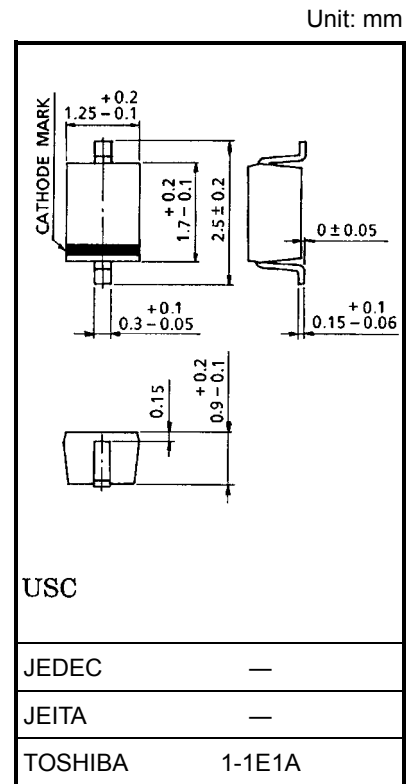
# 1SV302

## CATV Tuning

- High capacitance ratio:  $C_{2V}/C_{25V} = 17.5$  (typ.)
- Low series resistance:  $r_s = 1.05 \Omega$  (typ.)
- Useful for small size tuner.

## Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Reverse voltage	$V_R$	30	V
Peak reverse voltage	$V_{RM}$	35 ( $R_L = 10 k\Omega$ )	V
Junction temperature	$T_j$	125	°C
Storage temperature range	$T_{stg}$	-55~125	°C



## Electrical Characteristics (Ta = 25°C)

Weight: 0.004 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	$V_R$	$I_R = 1 \mu A$	30	—	—	V
Reverse current	$I_R$	$V_R = 28 V$	—	—	10	nA
Capacitance	$C_{2V}$	$V_R = 2 V, f = 1 MHz$	42	47	51	pF
Capacitance	$C_{25V}$	$V_R = 25 V, f = 1 MHz$	2.1	2.6	3.1	pF
Capacitance ratio	$C_{2V}/C_{25V}$	—	17	17.5	—	—
Series resistance	$r_s$	$V_R = 5 V, f = 470 MHz$	—	1.05	1.25	$\Omega$

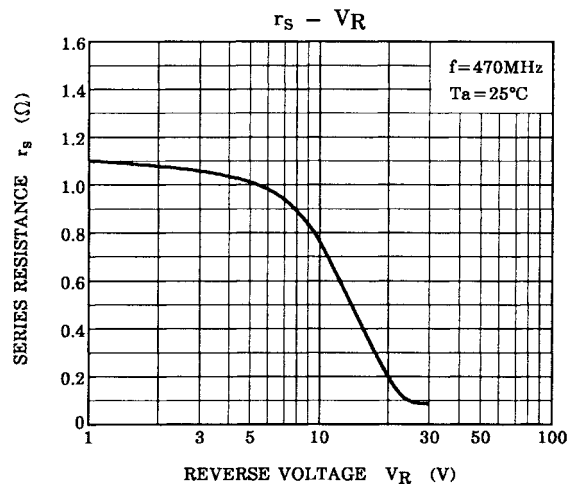
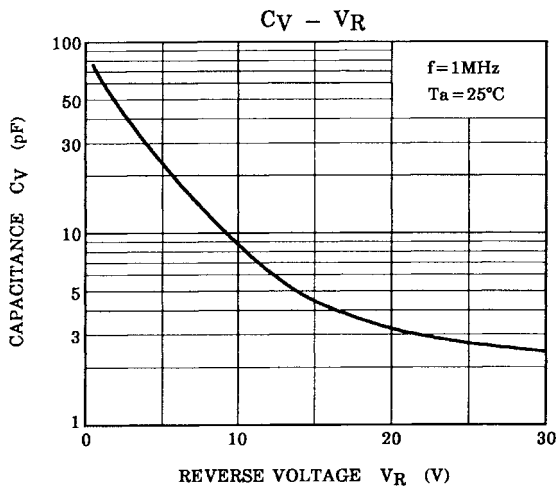
Note: Available in matched group for capacitance to 2.5%.

$$\frac{C(\max) - C(\min)}{C(\min)} \leq 0.025$$

( $V_R = 2 \sim 25 V$ )

## Marking





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