

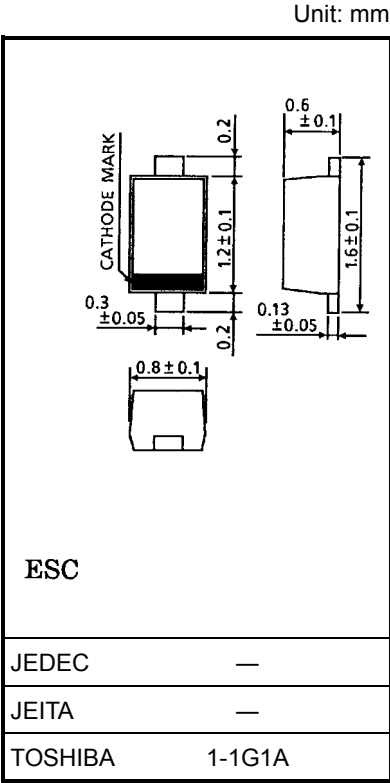
1SV303

CATV Tuning

- High capacitance ratio: $C_2 \text{ V}/C_{25 \text{ V}} = 17.5$ (typ.)
- Low series resistance: $r_s = 1.05 \text{ } \Omega$ (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 ($R_L = 10 \text{ k}\Omega$)	V
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55~125	°C



Electrical Characteristics (Ta = 25°C)

Weight: 0.0014 g (typ.)

Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Reverse voltage	V_R	$I_R = 1 \text{ } \mu\text{A}$	30	—	—	V
Reverse current	I_R	$V_R = 28 \text{ V}$	—	—	10	nA
Capacitance	$C_2 \text{ V}$	$V_R = 2 \text{ V}, f = 1 \text{ MHz}$	42	47	51	pF
Capacitance	$C_{25 \text{ V}}$	$V_R = 25 \text{ V}, f = 1 \text{ MHz}$	2.1	2.6	3.1	pF
Capacitance ratio	$C_2 \text{ V}/C_{25 \text{ V}}$	—	17	17.5	—	—
Series resistance	r_s	$V_R = 5 \text{ V}, f = 470 \text{ MHz}$	—	1.05	1.25	Ω

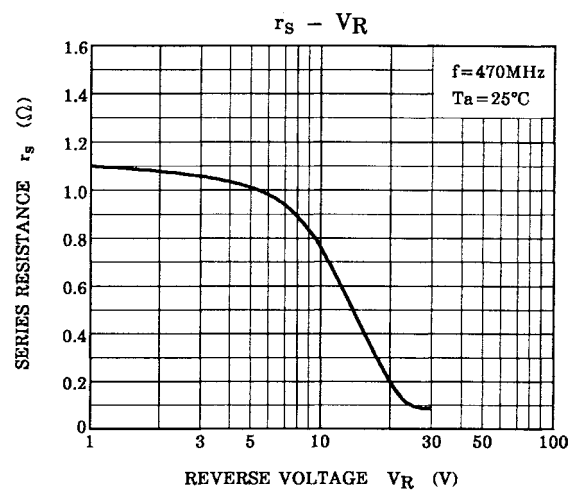
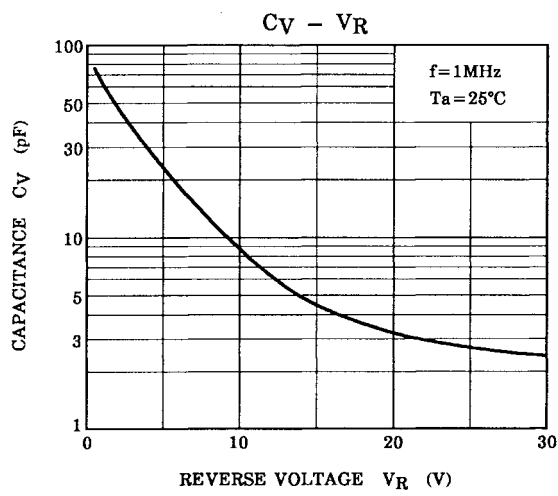
Note: Available in matched group for capacitance to 2.5%.

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

($V_R = 2 \sim 25 \text{ V}$)

Marking





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