

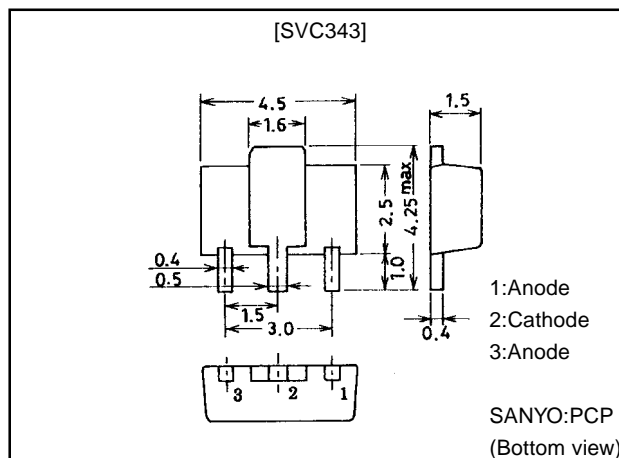
**SVC343**Silicon Diffused Junction Type
Varactor Diode**for AM Low-Voltage Electronic Tuning****Features**

- Twin type varactor diode for low-voltage AM electronic tuning applications.
- Low voltage (4.5V).
- High Q
- Packing on continuous tape is available.
- Surface mount type.

Package Dimensions

unit:mm

1222A

**Specifications****Absolute Maximum Ratings at Ta = 25°C**

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		30	V
Junction Temperature	T_J		125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	30			V
Reverse Current	I_R	$V_R=20V$			100	nA
Interterminal Capacitance*1	$C_{1.0V}$	$V_R=1.0V, f=1MHz*2$	410.0	430.0	445.0	pF
	$C_{3.0V}$	$V_R=3.0V, f=1MHz$	70.0	95.0	120.0	pF
	$C_{4.5V}$	$V_R=4.5V, f=1MHz$	21.0	23.5	26.0	pF
Quality Factor	Q	$V_R=1.0V, f=1MHz$	200			
Capacitance Ratio	CR	$C_{1.0V}/C_{4.5V}$	15.0			
Matching Tolerance*3	ΔC_{m1}	$V_R=1.0V, f=1MHz$			2.0	%
	ΔC_{m2}	$V_R=3.0V, f=1MHz$			3.0	%
	ΔC_{m3}	$V_R=4.5V, f=1MHz$			3.0	%

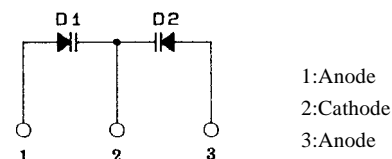
Note)*1: The value of interterminal capacitance represent the average of measurements for tow elements.

Note)*2: 1MHz signal: 20mVrms

Note)*3: $\Delta C_m = (C_{max} - C_{min}) / C_{min} \times 100$ Between D1 and D2

Note) The specifications shown above are for each individual diode.

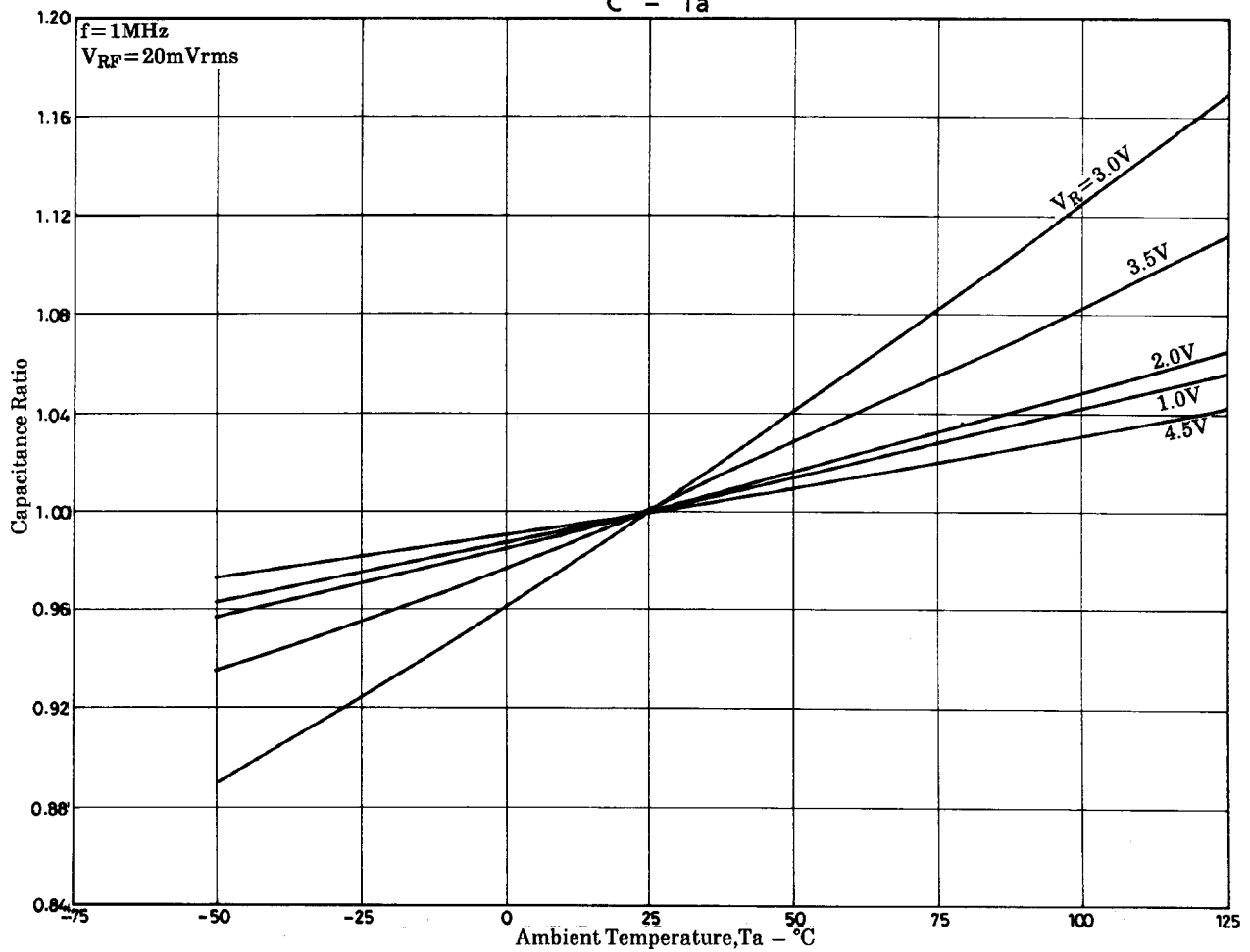
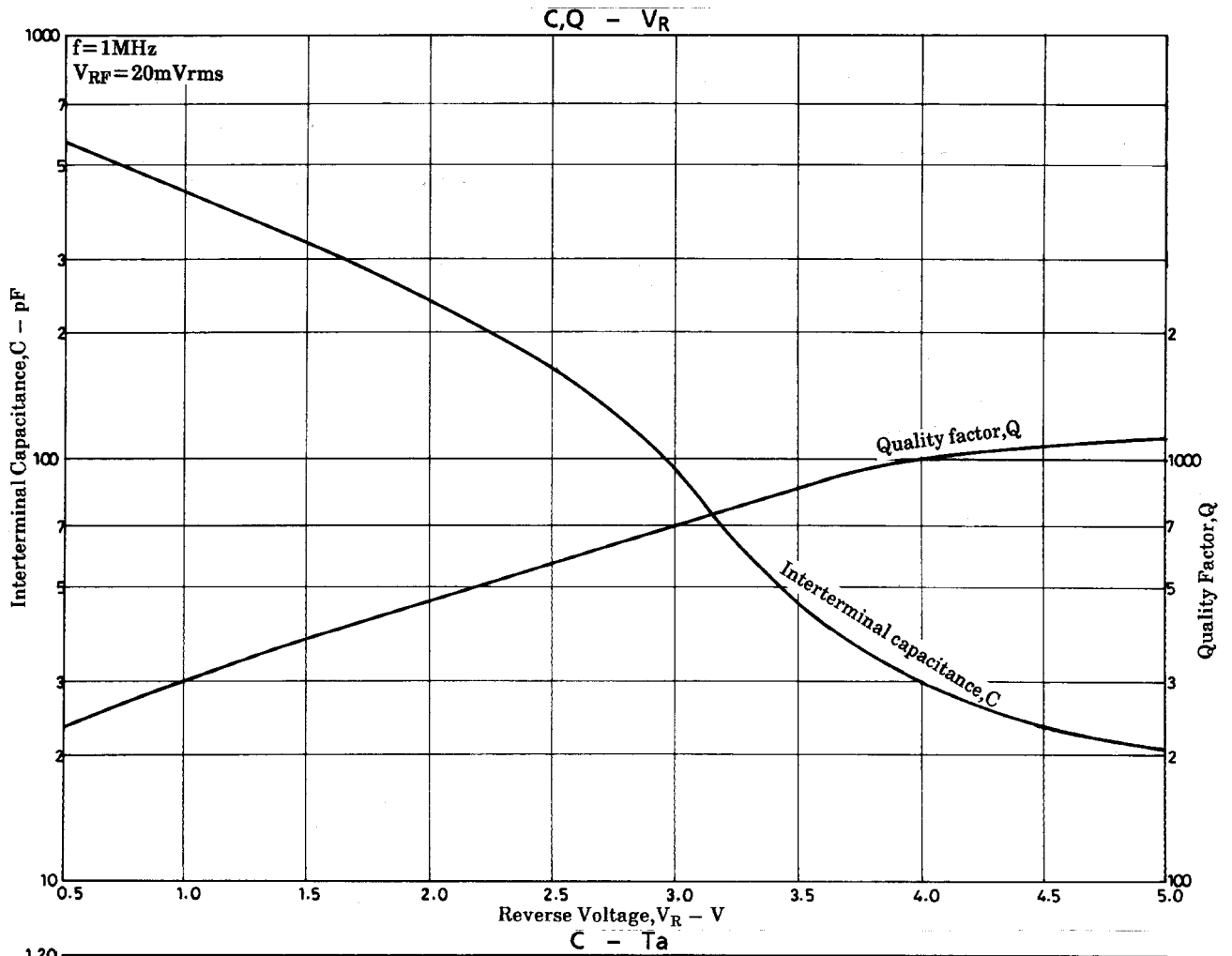
- Marking: VC

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SVC343



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