

Ordering number :EN4622A

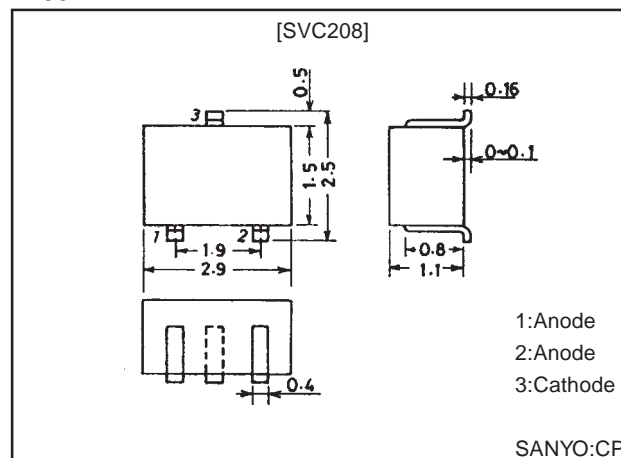
**SVC208**Silicon Diffused Junction Type
Varactor Diode (IOCAP)**for FM Low-Voltage Electronic Tuning****Features**

- Dual type with a good linearity of C-V characteristic.Excels in large input characteristic.
- Small-sized package (CP) available for very small-sized sets (surface mount type).
- Applicable to FM wide band due to high capacitance ratio ($V_R=1.5$ to $9V$).

Package Dimensions

unit:mm

1169A

**Specifications****Absolute Maximum Ratings at $T_a = 25^\circ C$**

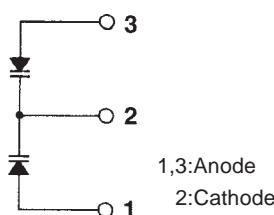
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_j		125	$^\circ C$
Storage Temperature	T_{stg}		-55 to +125	$^\circ C$

Electrical Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	I_R	$V_R=10V$			50	nA
Interterminal Capacitance*	$C_{3.0V}$	$V_R=3.0V, f=1MHz$	36.92		43.03	pF
	$C_{4.5V}$	$V_R=4.5V, f=1MHz$	27.45		32.80	pF
	$C_{6.0V}$	$V_R=6.0V, f=1MHz$	19.91		25.61	pF
	$C_{8.0V}$	$V_R=8.0V, f=1MHz$	12.77		16.84	pF
Quality Factor	Q	$V_R=3.0V, f=100MHz$	60			
Capacitance Ratio	CR	$C_{3.0V}/C_{8.0V}$	2.50		3.00	
Matching Tolerance	ΔC_m	$(C_{max}-C_{min})/C_{min}, V_R=2.0V$ to $8.0V$			0.03	

Note)*:Capacitance value of one diode

- Marking:AV

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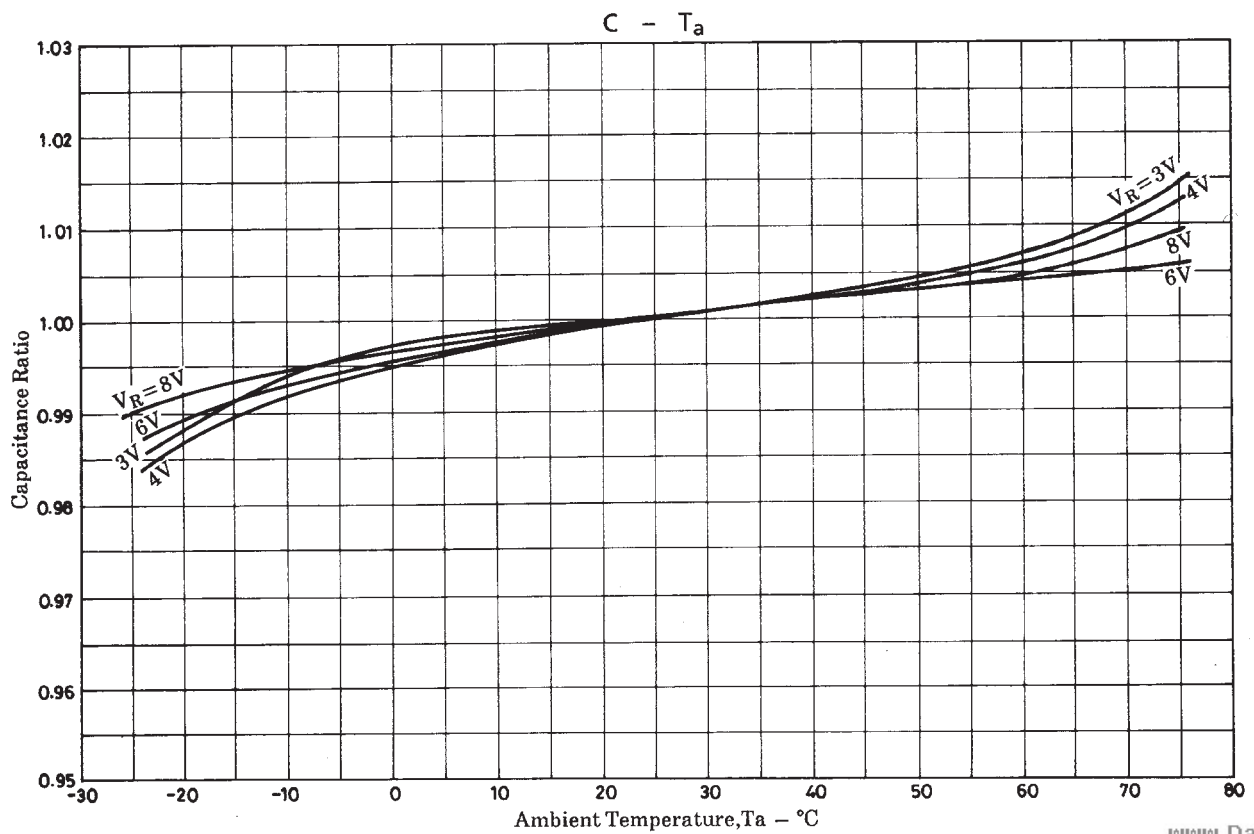
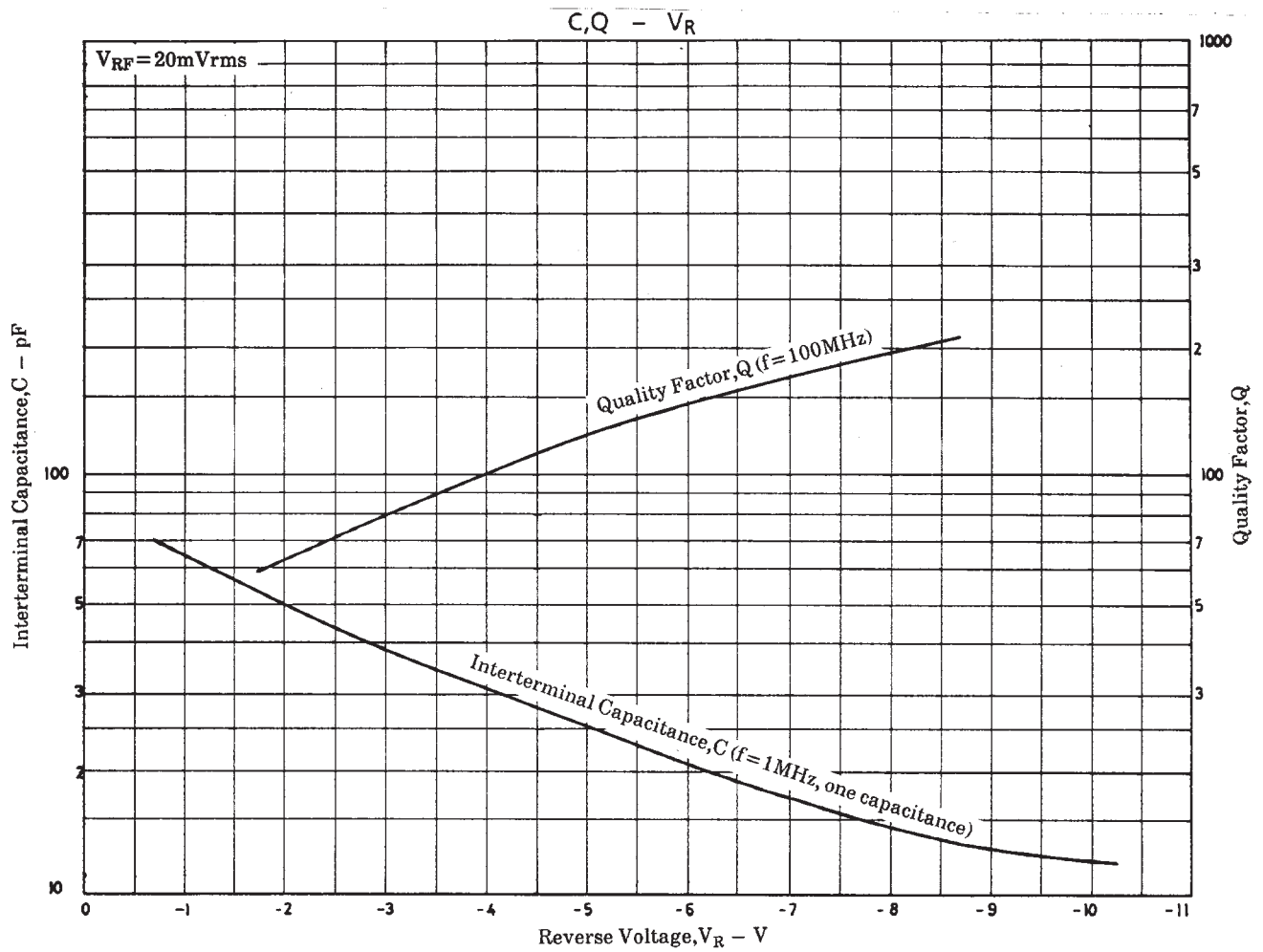
Address and Capacitance Value

V _R =3.0V		V _R =4.5V		V _R =6.0V		V _R =8.0V	
Address	Capacitance (pF)	Address	Capacitance (pF)	Address	Capacitance (pF)	Address	Capacitance (pF)
63	36.92~38.02	51	27.45~28.27	38	19.91~20.51	20	12.77~13.15
64	37.85~38.98	52	28.14~28.98	39	20.41~21.02	21	13.09~13.48
65	38.79~39.96	53	28.85~29.71	40	20.93~21.56	22	13.42~13.82
66	39.76~40.95	54	29.57~30.45	41	21.45~22.09	23	13.76~14.17
67	40.76~41.98	55	30.30~31.21	42	21.98~22.64	24	14.09~14.52
68	41.78~43.03	56	31.06~31.99	43	22.53~23.21	25	14.44~14.88
		57	31.84~32.80	44	23.09~23.78	26	14.81~15.26
				45	23.67~24.38	27	15.18~15.64
				46	24.27~25.00	28	15.56~16.03
				47	24.87~25.61	29	15.95~16.43
						30	16.35~16.84

Rank Width

$\begin{matrix} C_{8.0V} \\ C_{3.0V} \end{matrix}$	20	21	22	23	24	25	26	27	28	29	30
63											
64											
65											
66											
67											
68											

SVC208



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