

Features

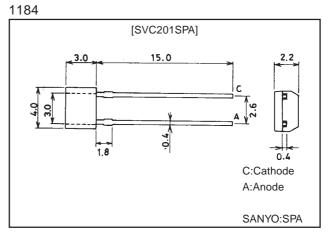
• The SVC201SPA, 201Y are varactor diodes of hyper abrupt junction structure fabricated with ion implantation technology. It is intended for use in FM receiver electronic tuning applications.

• Capable of being operated from a low voltage (Voltage range:1 to 9V)

- \cdot High Q
- · High Capacitance raito
- Uniform capacistance-voltage characteristic provided diode to be used in combination.

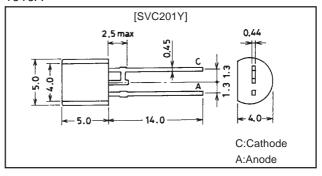
Package Dimensions

unit:mm



unit:mm





Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Voltage	VR		-16	V
Junction Temperature	Tj		100	°C
Storage Temperature	Tstg		-55 to +100	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Unit
Breakdown Voltage	V _{(BR)R}	I _R =-10μA	-16			V
Reverse Current	IR	V _R =-9V			-50	nA
Interterminal Capacitance	C _{1.6V}	V _R =-1.6V, f=1MHz	28.19		37.45	pF
	C _{3.5V}	V _R =-3.5V, f=1MHz	19.04		24.33	pF
	C _{5.0V}	V _R =-5.0V, f=1MHz	14.48		18.49	pF
	C _{7.5V}	V _R =-7.5V, f=1MHz	10.17		12.99	pF
Capacitance Raito	CR	C _{1.6V} /C _{7.5V}	2.2		3.7	
Series Resistance	r _s	f=50MHz ,V _R =-1V			0.6	Ω
Matching Tolerance	∆C _m	(C _{max} -C _{min})/C _{min}			0.05	

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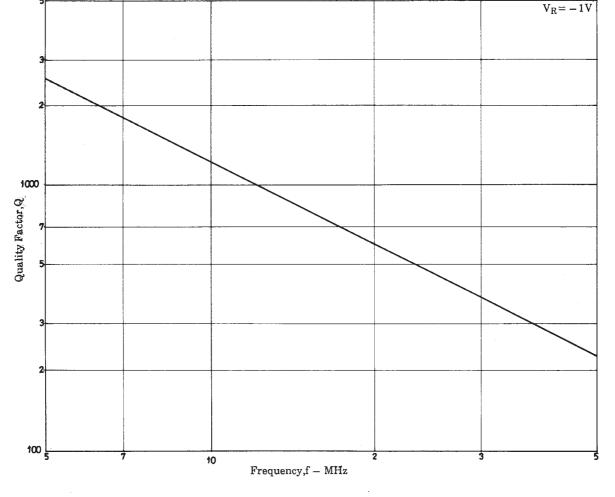
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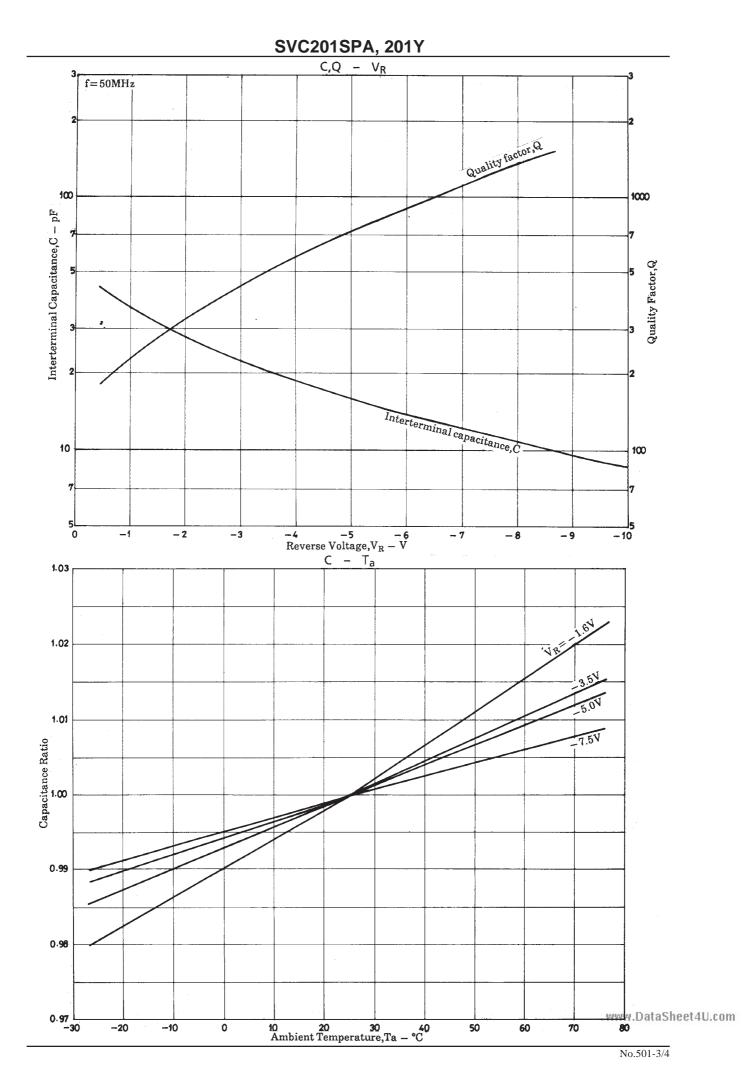
SVC201SPA, 201Y

♦ Address and Capacitance Value TEST POINT C 7.5V C 3.5V C 5.0V C 1.6V Capaci-tance (pF) Capaci – tance (pF) Address Capaci – tance (pF) Address Capaci-tance (pF) Address Address 11 [12.99 $\begin{smallmatrix}&18.49\\&17.61\end{smallmatrix}$ 38 [37.45 35.67 24.33 2720 [12.37 23.17[23.39 $\begin{smallmatrix}&36.01\\&34.30\end{smallmatrix}$ $\begin{smallmatrix}&17.78\\&16.93\end{smallmatrix}$ [12.50 11.90 19 10 37 $\mathbf{26}$ CAPACITANCE VALUE 22.28 [12.01 $\begin{smallmatrix}&17.09\\&16.28\end{smallmatrix}$ $[\begin{array}{c}34.63\\32.98\end{array}$ 22.49 36 25 [18 9 21.4211.44 $\begin{smallmatrix}&33.30\\&31.71\end{smallmatrix}$ $\begin{smallmatrix}&16.43\\&15.65\end{smallmatrix}$ $\begin{smallmatrix}&11.54\\&10.99\end{smallmatrix}$ 21.63 [20.60 $\mathbf{24}$ 1735 8 11.11 $\begin{smallmatrix}&32.02\\&30.50\end{smallmatrix}$ [20.80 $\begin{smallmatrix}&15.81\\&15.05\end{smallmatrix}$ 23 34 16 7 10.58 19.81 22 [20.00 19.04 $\begin{smallmatrix}&10.68\\&10.17\end{smallmatrix}$ 30.79 $\begin{smallmatrix}&15.20\\&14.48\end{smallmatrix}$ [30.3 29.32 33 15 6 $[\begin{array}{c}29.60\\28.19\end{array}$ 32

Q – f



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