



## SVC211SPA

Diffused Junction Type Silicon Diode  
Varactor Diode (IOCAP)

for FM Low-Voltage Electronic Tuning

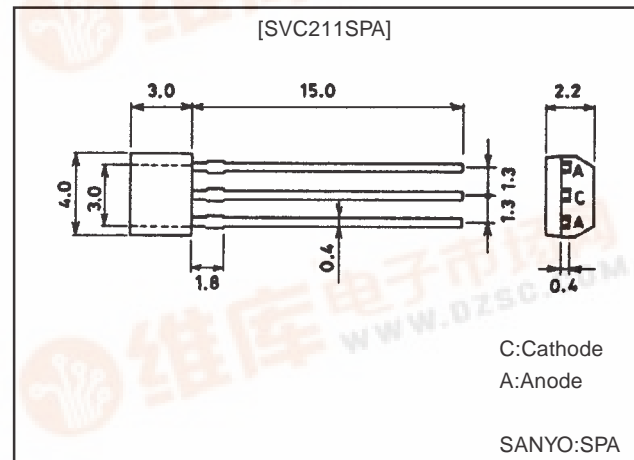
### Features

- Twin type varactor diode being excellent in large input characteristic and intended for use in high-voltage FM electronic applications.

### Package Dimensions

unit:mm

1129



### Specifications

Absolute Maximum Ratings at  $T_a = 25^\circ\text{C}$

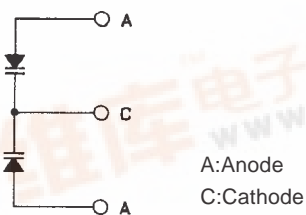
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		-32	V
Junction Temperature	$T_j$		125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to 125	$^\circ\text{C}$

Electrical Characteristics at  $T_a = 25^\circ\text{C}$

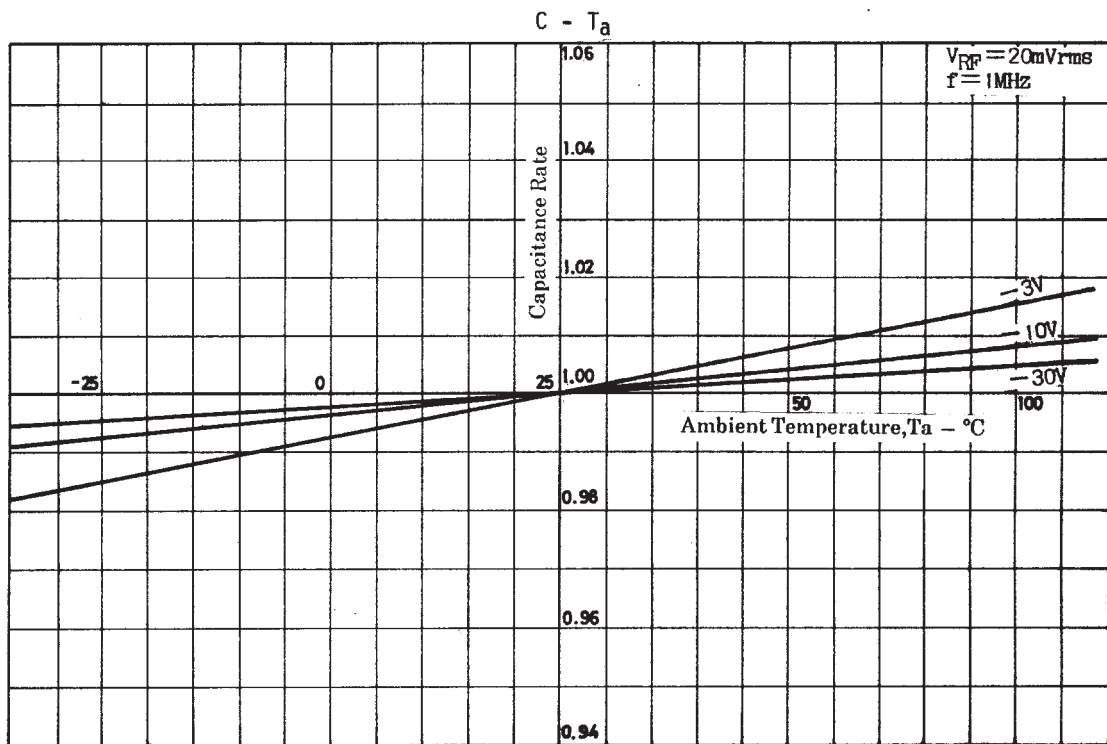
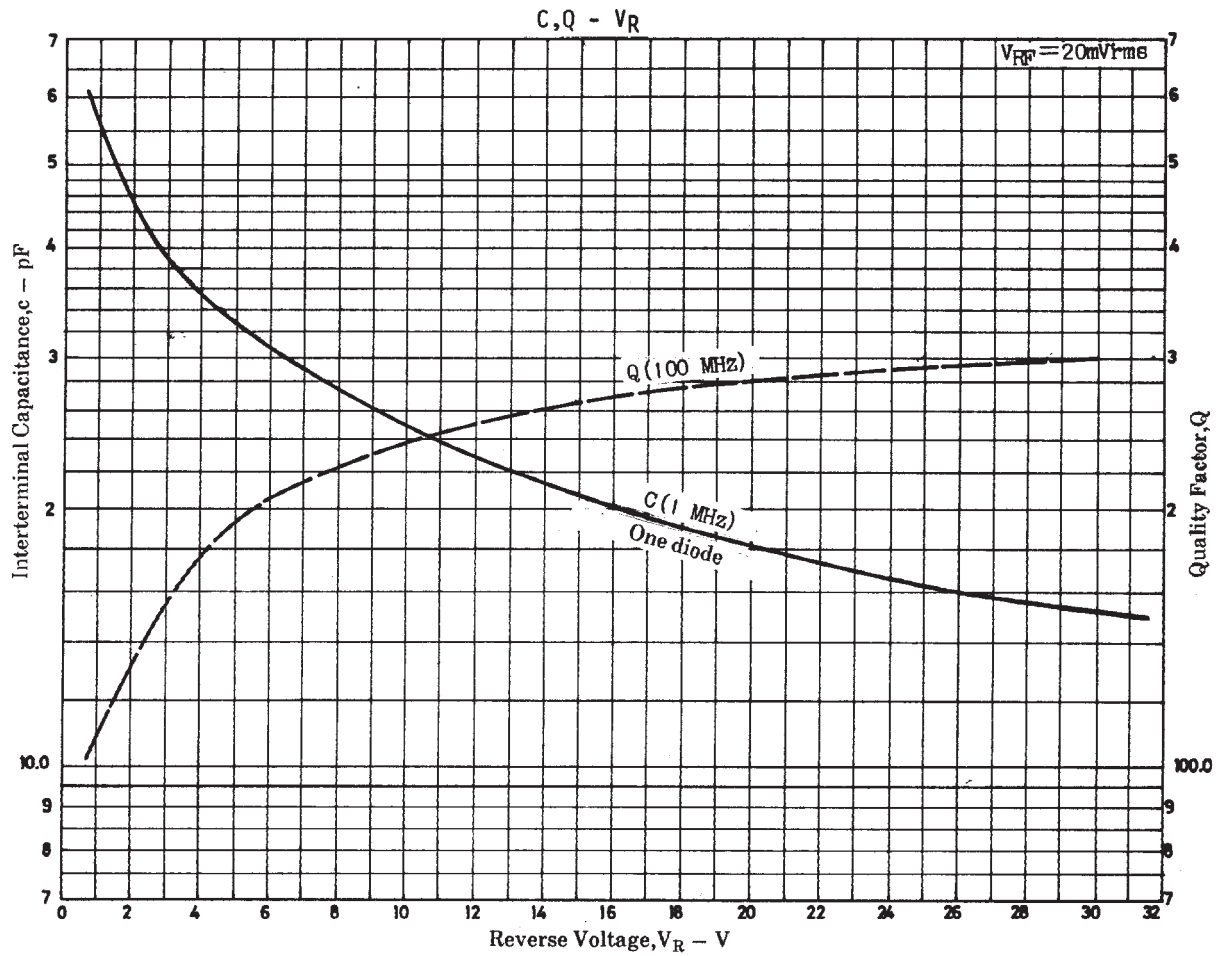
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R = -10\mu\text{A}$	-32			V
Reverse Current	$I_R$	$V_R = -30\text{V}$			-50	nA
Interterminal Capacitance*	$C_{3.0V}$	$V_R = -3.0\text{V}, f = 1\text{MHz}$	37.0		42.0	pF
	$C_{25V}$	$V_R = -25\text{V}, f = 1\text{MHz}$	14.8		18.2	pF
Capacitance Ratio*	CR	$C_{3.0V}/C_{25V}, f = 100\text{MHz}$	2.32		2.55	
Quality Factor	Q	$V_R = -3.0\text{V}, f = 100\text{MHz}$	100			

Note)\*:Capacitance value of one diode

### Electrical Connection

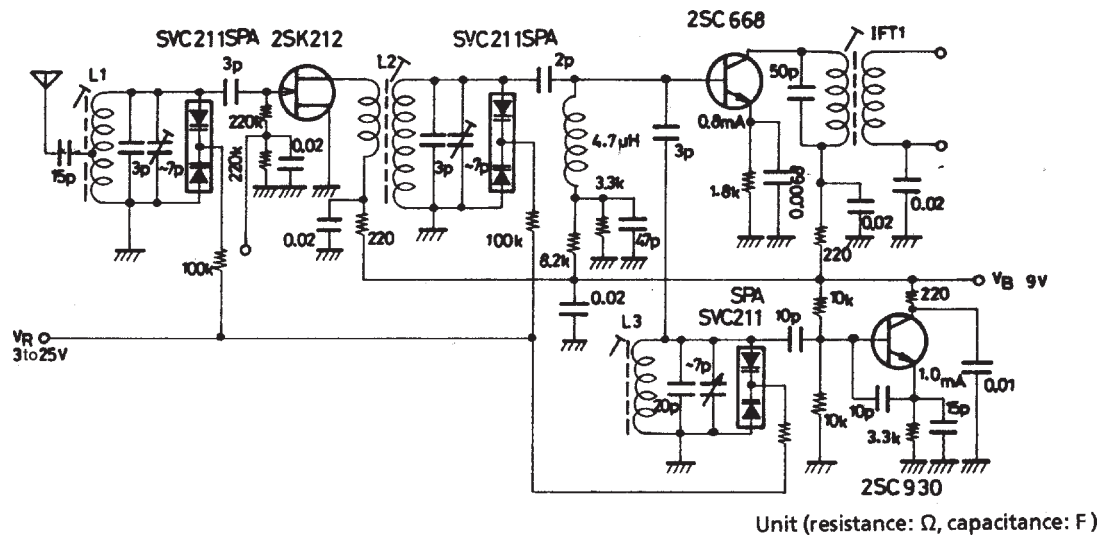


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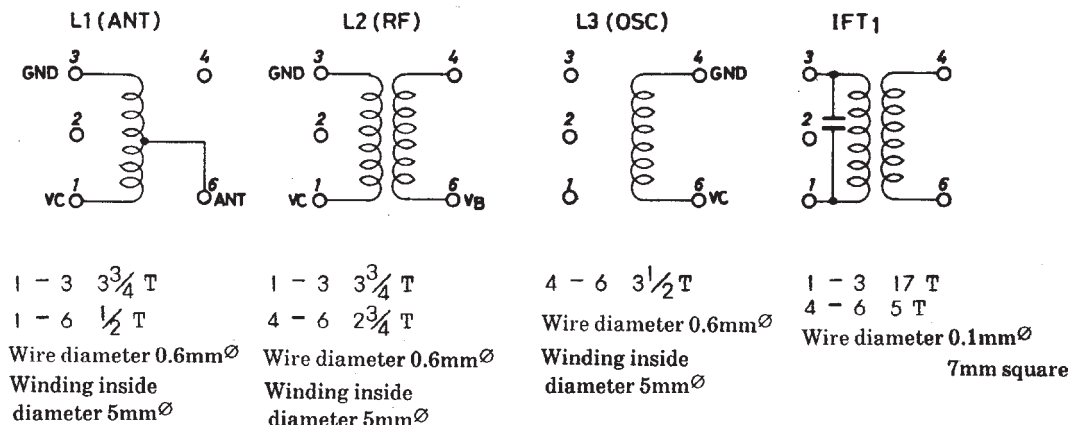
### Sample Application Circuit: FM electronic tuner using SVC211SPA



#### • Main Characteristics

f	PG	NF	Image interference ratio
88 MHz	31.0 dB	6.2 dB	50.0 dB
98 MHz	31.7 dB	5.5 dB	46.7 dB
108 MHz	31.2 dB	5.7 dB	42.0 dB

#### • Coil Data



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