

Ordering number :EN684E



## SVC211SPA

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

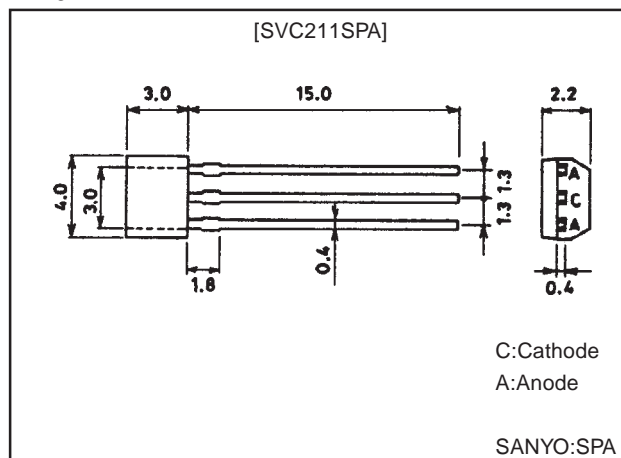
### Features

- 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 Ta = 25°C**

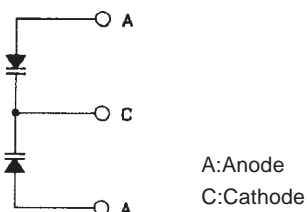
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		-32	V
Junction Temperature	$T_J$		125	°C
Storage Temperature	$T_{stg}$		-55 to 125	°C

**Electrical Characteristics at Ta = 25°C**

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

Note)\*:Capacitance value of one diode

### Electrical Connection



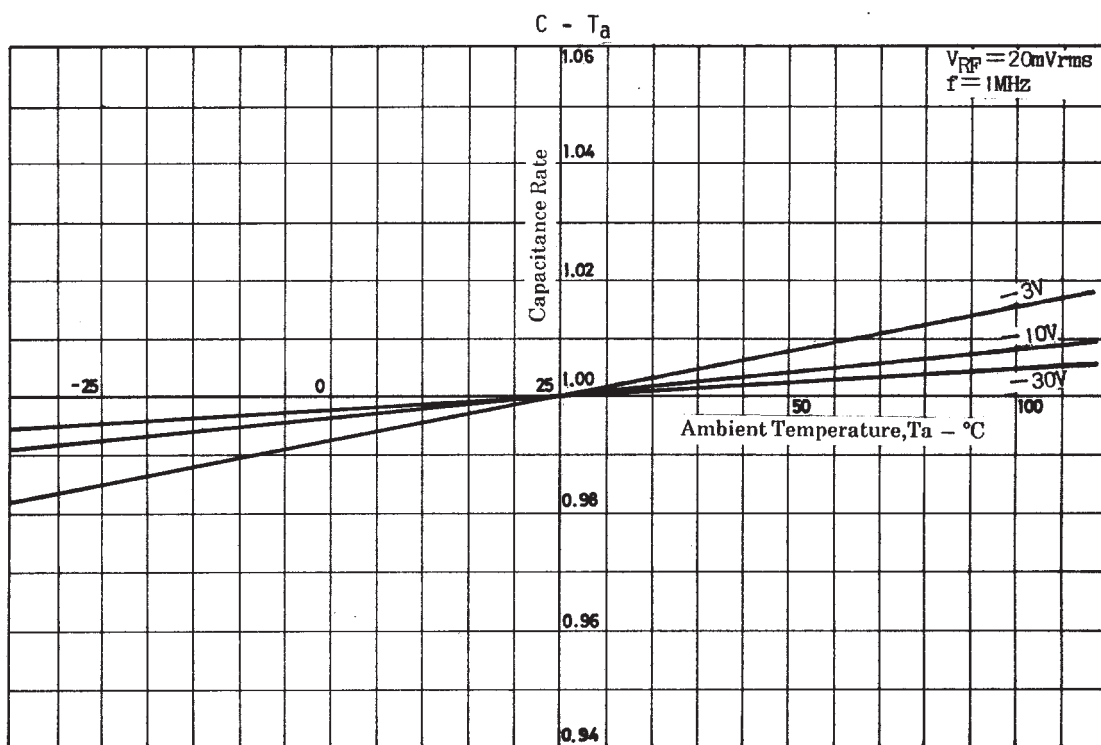
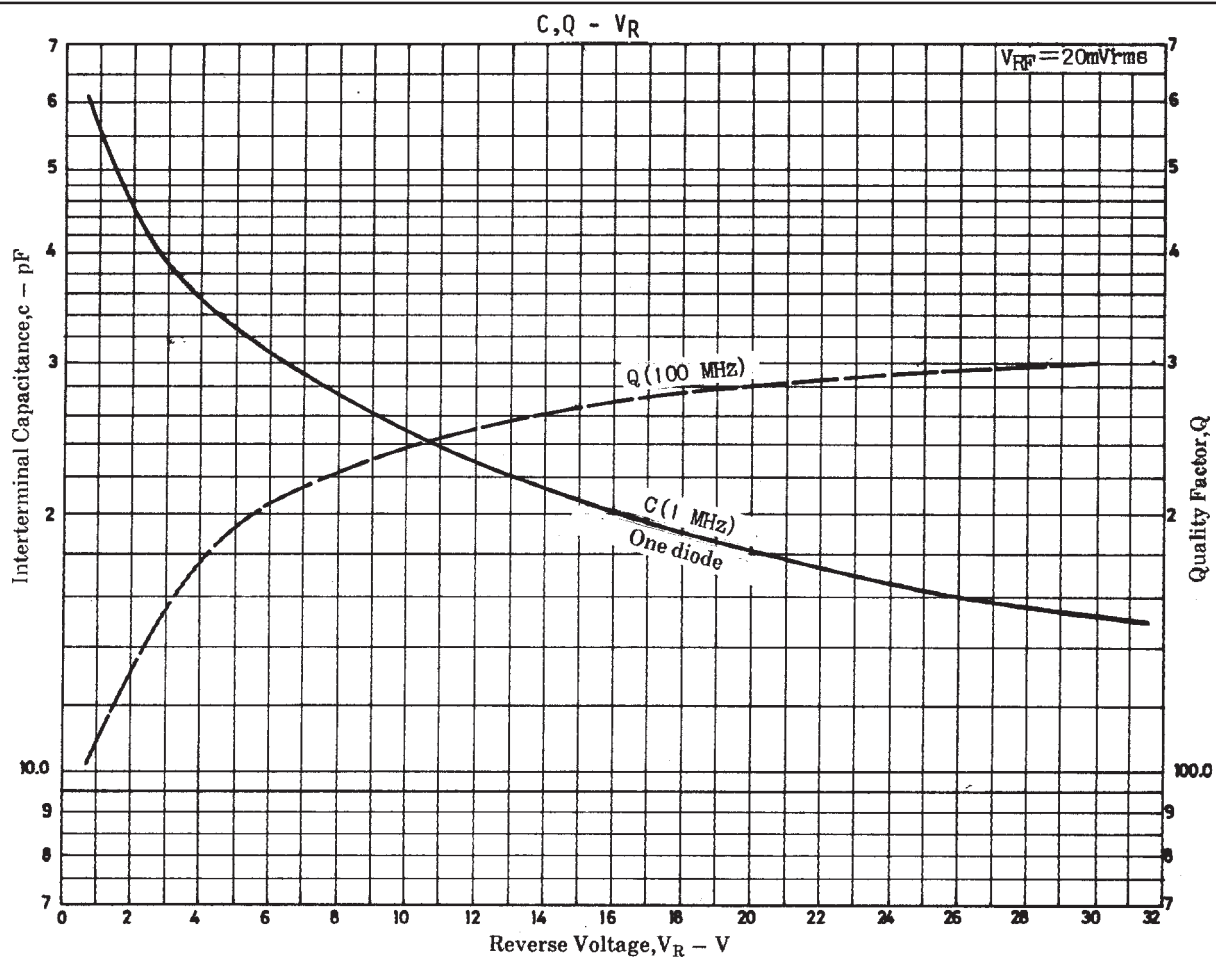
**SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquarters**

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

33098HA (KT)/3019MO/6163KI, TS No.684-1/3

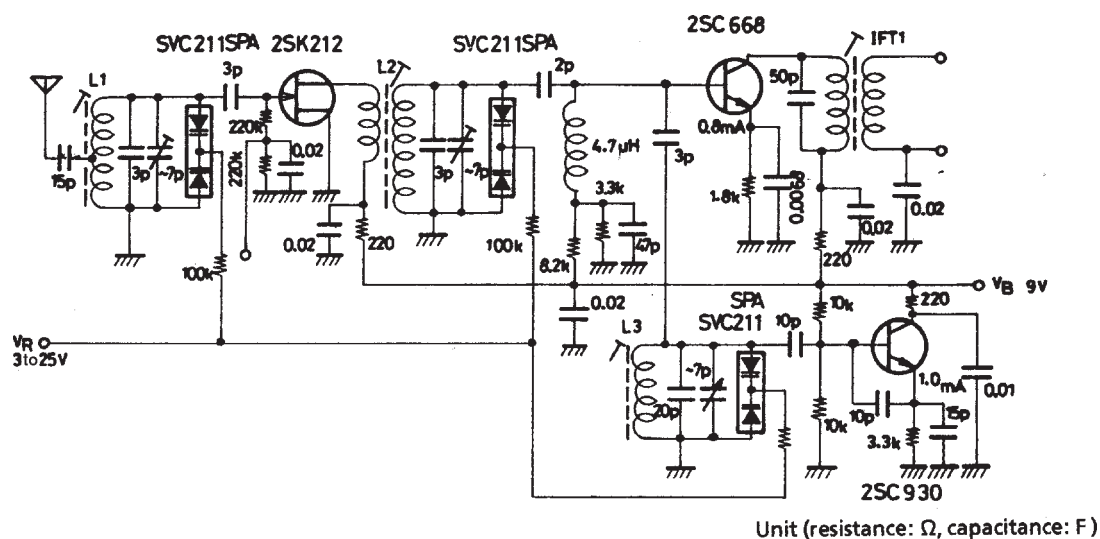
et4U.com

# SVC211SPA



# SVC211SPA

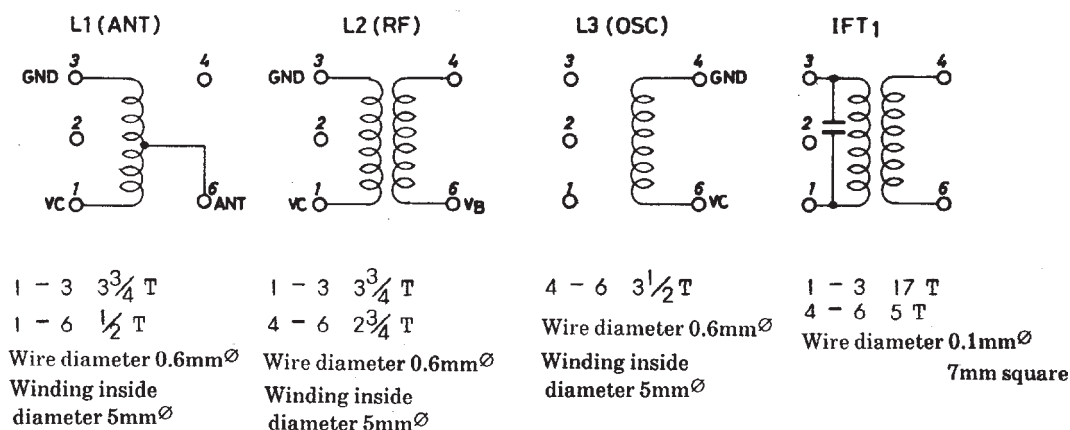
## Sample Application Circuit:FM electronic tuner using SVC211SPA



### • 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



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
- ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
  - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of March, 1998. Specifications and information herein are subject to change without notice.