

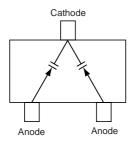
**SVC231** 

# **FM Receiver Electronic Tuning Applications**

### Features

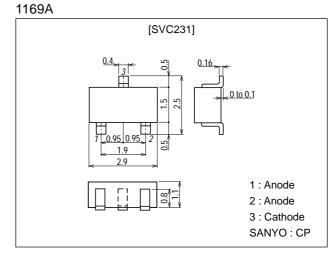
- Twin type varactor diode having an excellent large input characteristic and intended for use in lowvoltage (high-voltage) FM electronic tuning applications.
- Small-sized package (CP), permitting SVC231applied sets to be compact and slim.
- Possible to offer the SVC231 devices in a tape reel packaging, which facilitates automatic insertion.
  High Q.

#### **Electrical Connection**



## **Package Dimensions**

unit:mm



## Specifications

#### Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

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

Parameter	Symbol	Conditions		Unit		
Falameter	Symbol	Conditions	min	typ	max	Unit
Breakdown Voltage	V <sub>(BR)R</sub>	I <sub>R</sub> =10µA	16			V
Reverse Current	IR	V <sub>R</sub> =10V			50	nA
Interterminal Capacitance *	C2V	V <sub>R</sub> =2.0V, f=1MHz	43.89		51.02	pF
	C8V	V <sub>R</sub> =8.0V, f=1MHz			21.50	pF
Quality Factor	Q	V <sub>R</sub> =3.0V, f=100MHz	100			
Capacitance Ratio	CR	C2.0V/C8.0V	2.3		2.6	
Matching Tolerance	ΔCm	V <sub>R</sub> =2.0V, 8.0V, f=1MHz, (Cmax-Cmin) / Cmin × 100			3	%
Note )* : Capacitance value of one diode	2011	$V_{R}=2.0V, 0.0V, 1=10012, (CITIAX-CITIIII) / CITIIII × 100$			3	70

Note )\* : Capacitance value of one diode

Marking : RV

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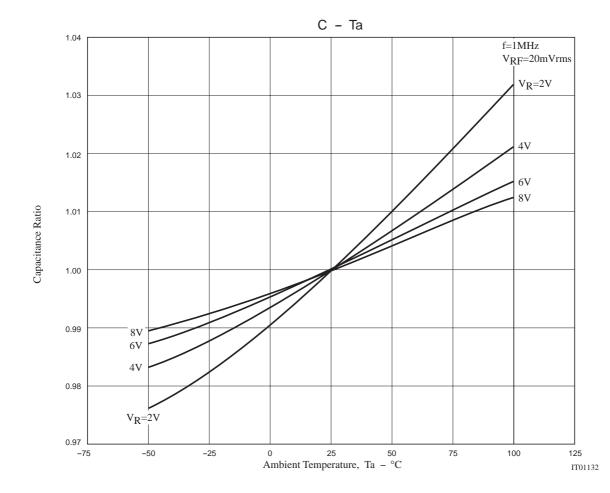
#### SANYO Electric Co., Ltd. Semiconductor Company TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

### Address and Capacitance Value [pF]

	VR=2V	VR=8V			
Address	Capacitance [pF]	Address	Capacitance [pF]		
22	43.89 to 45.21	82	17.65 to 18.20		
23	44.93 to 46.31	83	18.03 to 18.63		
24	46.03 to 47.16	84	18.46 to 19.10		
25	47.45 to 48.63	85	18.92 to 19.56		
26	48.34 to 49.82	86	19.38 to 20.03		
27	49.52 to 51.02	87	19.85 to 20.53		
		88	20.35 to 21.02		
		89	20.84 to 21.50		

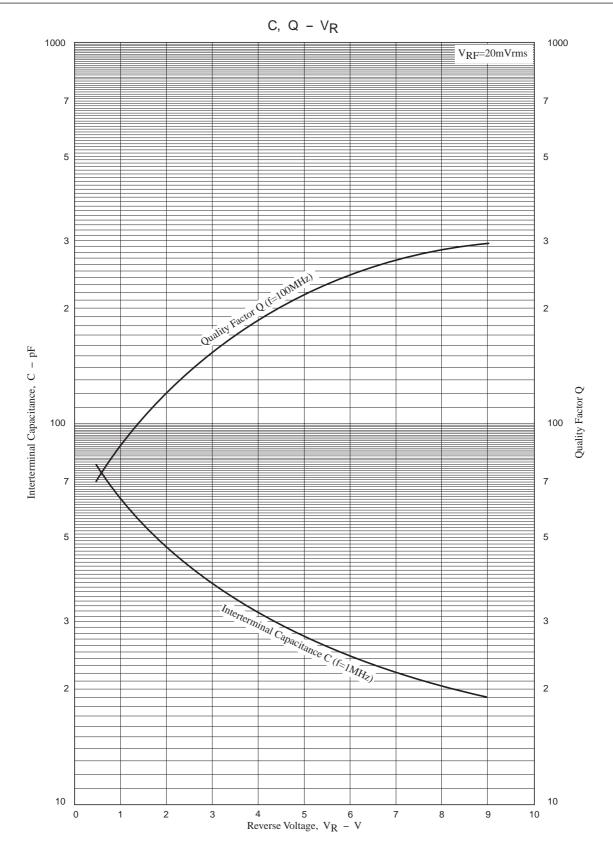
#### SVC231 Rank Address

C8V									
C2V		82	83	84	85	86	87	88	89
	22								
	23								
	24								
	25								
	26								
	27								



No.5527-2/4

# SVC231



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