

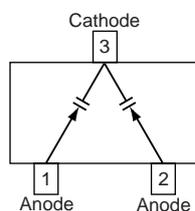
**SVC234**

## Varactor Diode for FM Receiver Electronic Tuning Use

### Features

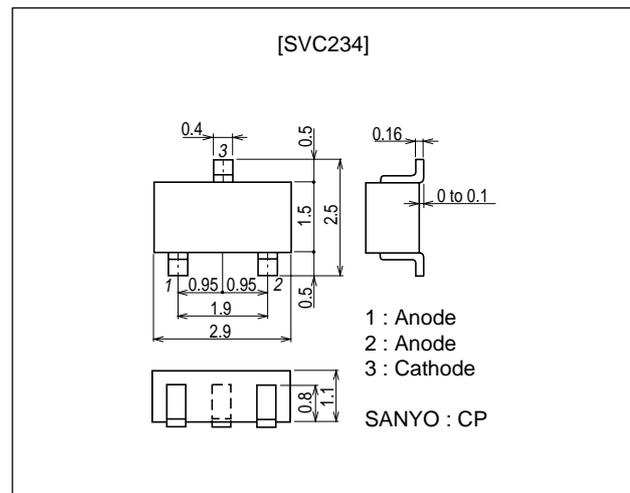
- Low voltage (6.5V).
- Twin type varactor diode with good large-signal characteristics for FM receiver electronic tuning use.
- Very small package permits SVC234-applied sets to be compact and slim.
- Since available also in tape reel package, automatic insertion is supported.

### Electrical Connection



### Package Dimensions

unit : mm  
1169A



### Specifications

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

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

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

Parameter	Symbol	Conditions	Ratings		Unit
			min	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	16		V
Reverse Voltage	$V_R$	$V_R=10\text{V}$		50	nA
Interterminal Capacitance *	$C_{1V}$	$V_R=1.0\text{V}, f=1\text{MHz}$	62.02	68.79	pF
	$C_{4.5V}$	$V_R=4.5\text{V}, f=1\text{MHz}$	21.45	28.27	pF
	$C_{6.5V}$	$V_R=6.5\text{V}, f=1\text{MHz}$	13.42	16.03	pF
Quality Factor	Q	$V_R=3.0\text{V}, f=100\text{MHz}$	60		
Capacitance Ratio	$C_R$	$C_{1.0V} / C_{6.5V}$	4.05	4.90	
Matching Tolerance	$\Delta C_m$	$V_R=1.0, 4.5, 6.5\text{V}, f=1\text{MHz} (C_{\text{max}} - C_{\text{min}}) / C_{\text{min}}$		0.03	

★ : Capacitance value per each diode.

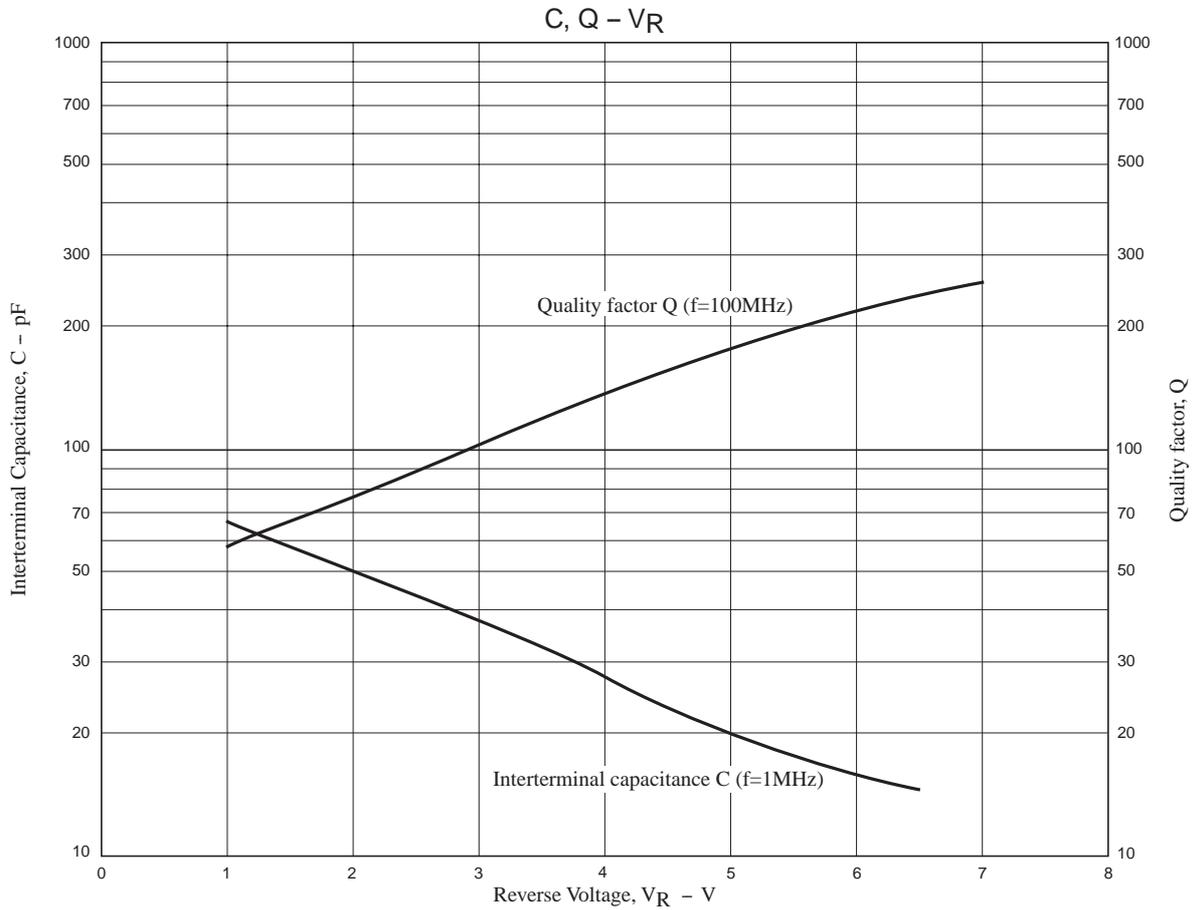
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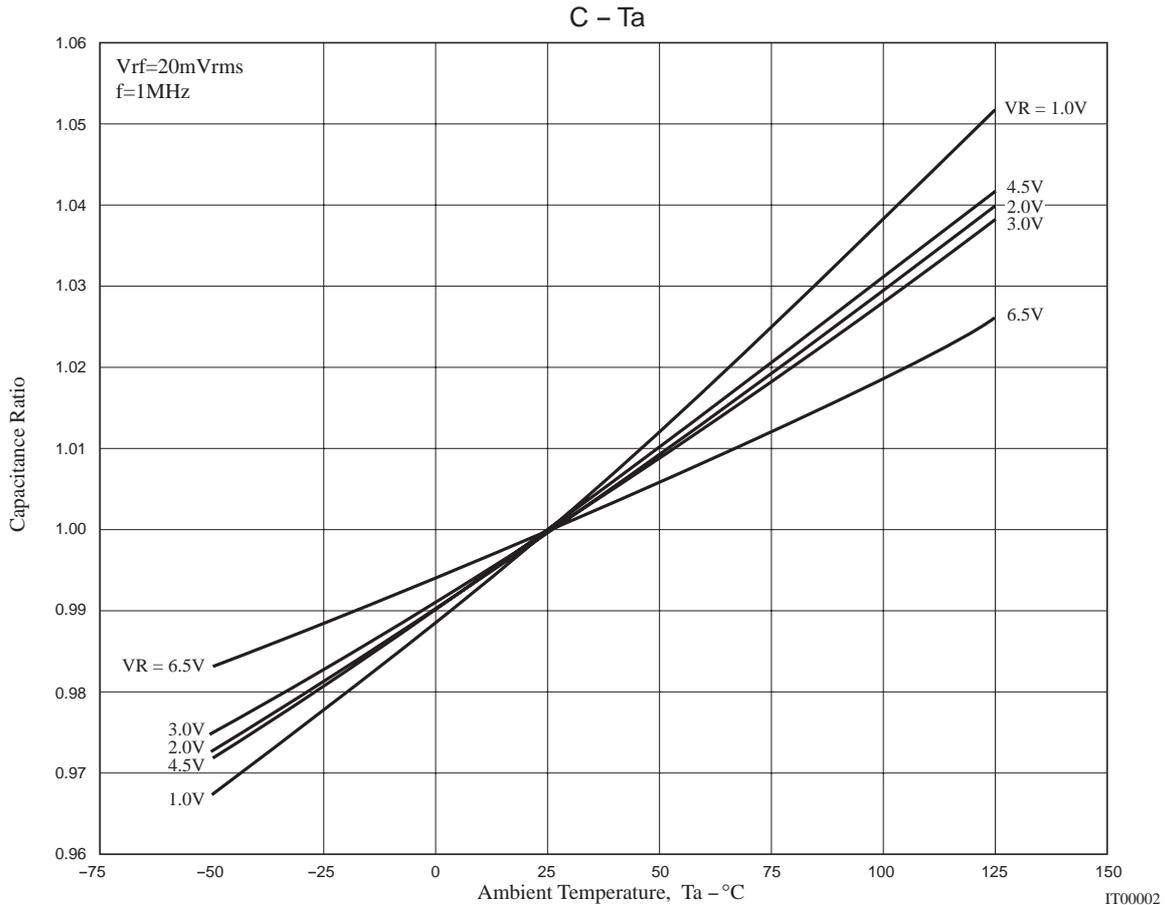
# SVC234

## Address and Capacitance Value [pF]

Address	C1.0V	Address	C3.0V	Address	C4.5V	Address	C6.5V
84	62.02 to 63.88	59	33.45 to 34.45	41	21.45 to 22.09	22	13.42 to 13.82
85	63.56 to 65.48	60	34.28 to 35.32	42	21.98 to 22.64	23	13.76 to 14.17
86	65.16 to 67.11	61	35.14 to 36.20	43	22.53 to 23.21	24	14.09 to 14.52
87	66.78 to 68.79	62	36.02 to 37.10	44	23.09 to 23.78	25	14.44 to 14.88
---	---	63	36.92 to 38.02	45	23.67 to 24.38	26	14.81 to 15.26
---	---	64	37.85 to 38.98	46	24.27 to 25.00	27	15.18 to 15.64
---	---	65	38.79 to 39.96	47	24.87 to 25.61	28	15.56 to 16.03
---	---	---	---	48	25.50 to 26.26	---	---
---	---	---	---	49	26.13 to 26.92	---	---
---	---	---	---	50	26.78 to 27.59	---	---
---	---	---	---	51	27.45 to 28.27	---	---



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