



# SVC212

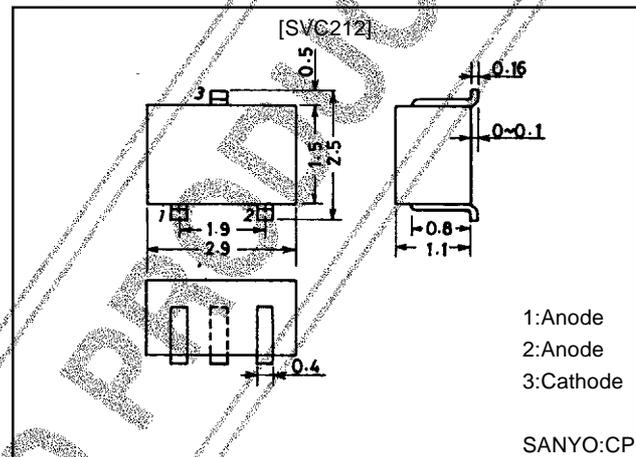
## Diffused Junction Type Silicon Diode Varactor Diode (IOCAP) for FM Receiver Electronic Tuning

### Features

- Twin type FM electronic tuning-use varactor diode which excels in large input characteristic.
- Ultrasmall-sized package making it possible to make SVC212-applied sets smaller and slimmer.
- Possible to offer the SVC212 devices in a tape reel packaging, which facilitates automatic mounting.

### Package Dimensions

unit:mm  
1169A



### Specifications

#### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		16	V
Junction Temperature	$T_J$		125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

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

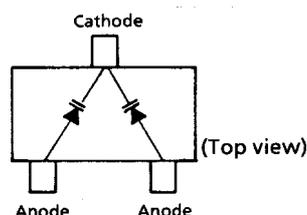
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	$I_R$	$V_R=10V$			50	nA
Interterminal Capacitance*	$C_{2V}$	$V_R=2.0V, f=1MHz$	43.0		47.5	pF
	$C_{8V}$	$V_R=8.0V, f=1MHz$	24.5		28.8	pF
Quality Factor	Q	$V_R=3.0V, f=100MHz$	100			
Capacitance Ratio	CR	$C_{2.0V}/8.0V$	1.65		1.75	

Note)\*:Capacitance value of one diode.

#### Subclassification of $C_{2V}$

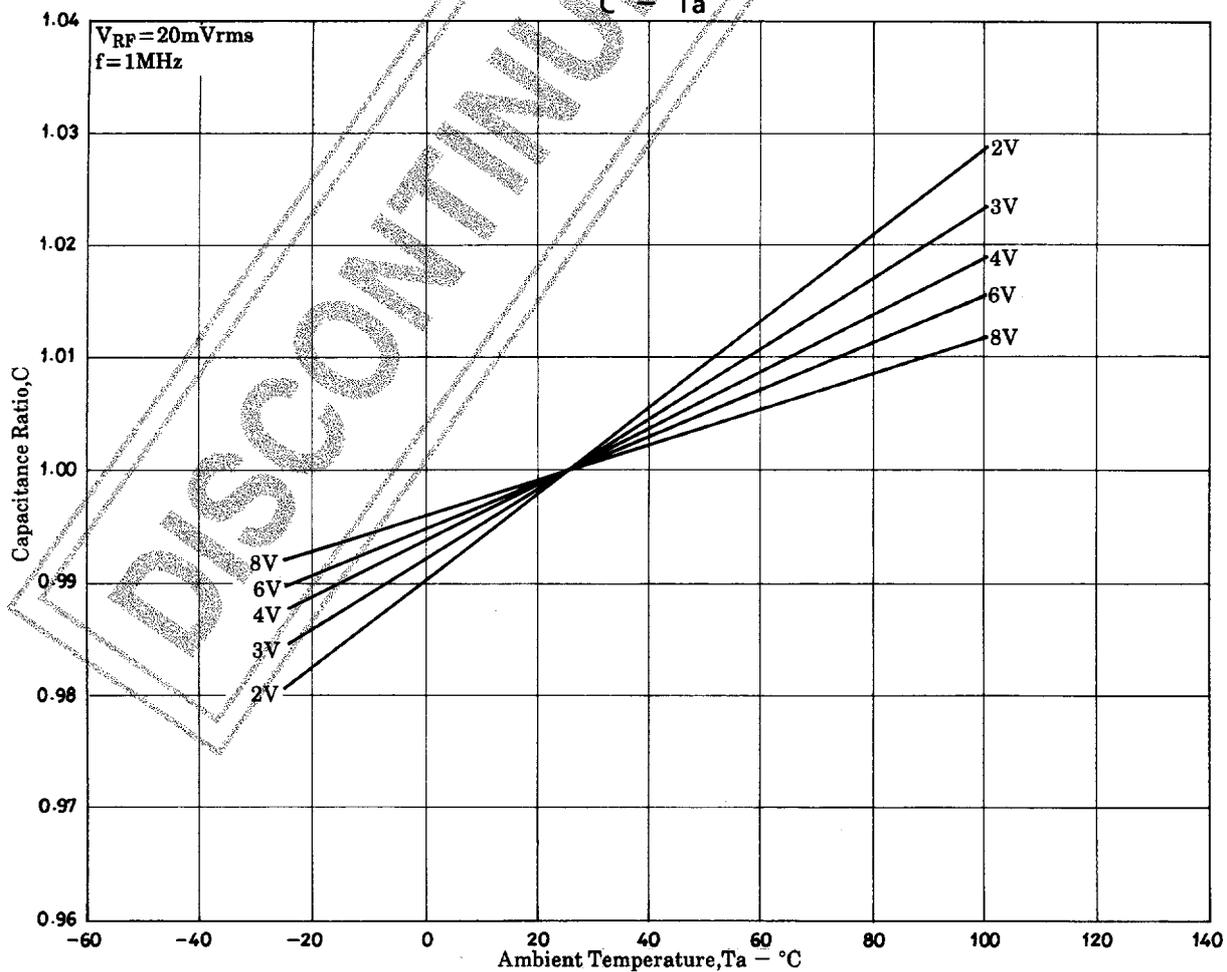
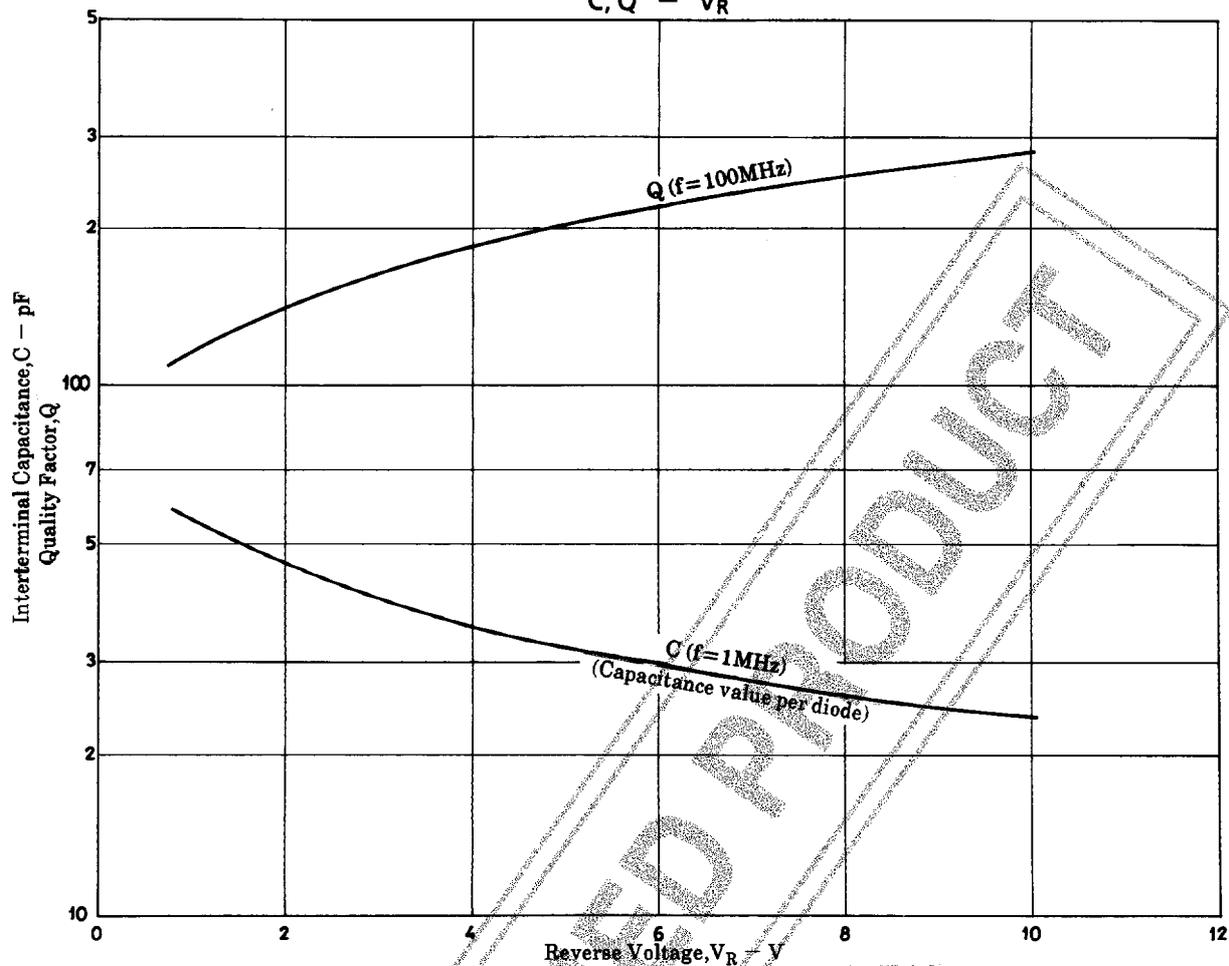
Rank	Capacitance Value (pF)
1	43.0 to 44.5
2	44.0 to 45.5
3	45.0 to 46.5
4	46.0 to 47.5

#### Electrical Connection



# SVC212

C, Q -  $V_R$



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