Ordering number :EN2228B

SVC212

Diffused Junction Type Sillicon Diode

Varactor Diode (IOCAP)
for FM Receiver Electronic Tuning

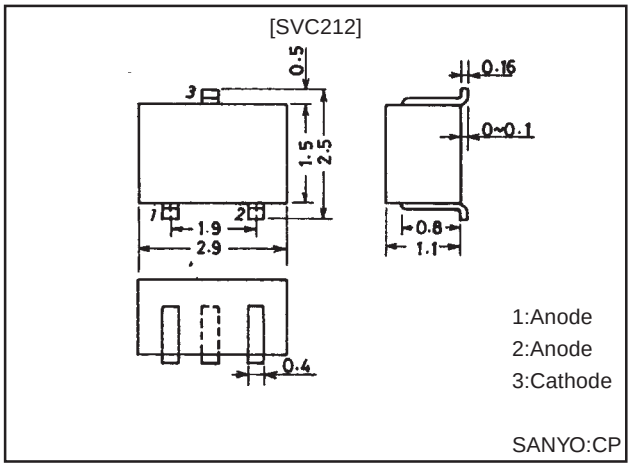
Features

- Twin type FM electrinic 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 faciitates 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	Tj		125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

Electrical Characteristics at Ta = 25˚C

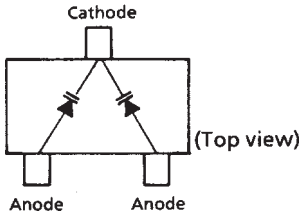
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	I_R=10μA	16			V
Reverse Current	I_R	V_R=10V			50	nA
Interterminal Capacitance*	C_{2V}	V_R=2.0V, f=1MHz	43.0		47.5	pF
	C_{8V}	V_R=8.0V, f=1MHz	24.5		28.8	pF
Quality Factor	Q	V_R=3.0V, f=100MHz	100			
Capacitance Ratio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

Note)*:Capacitance value of one diode.

Subclassification of C_{2V}

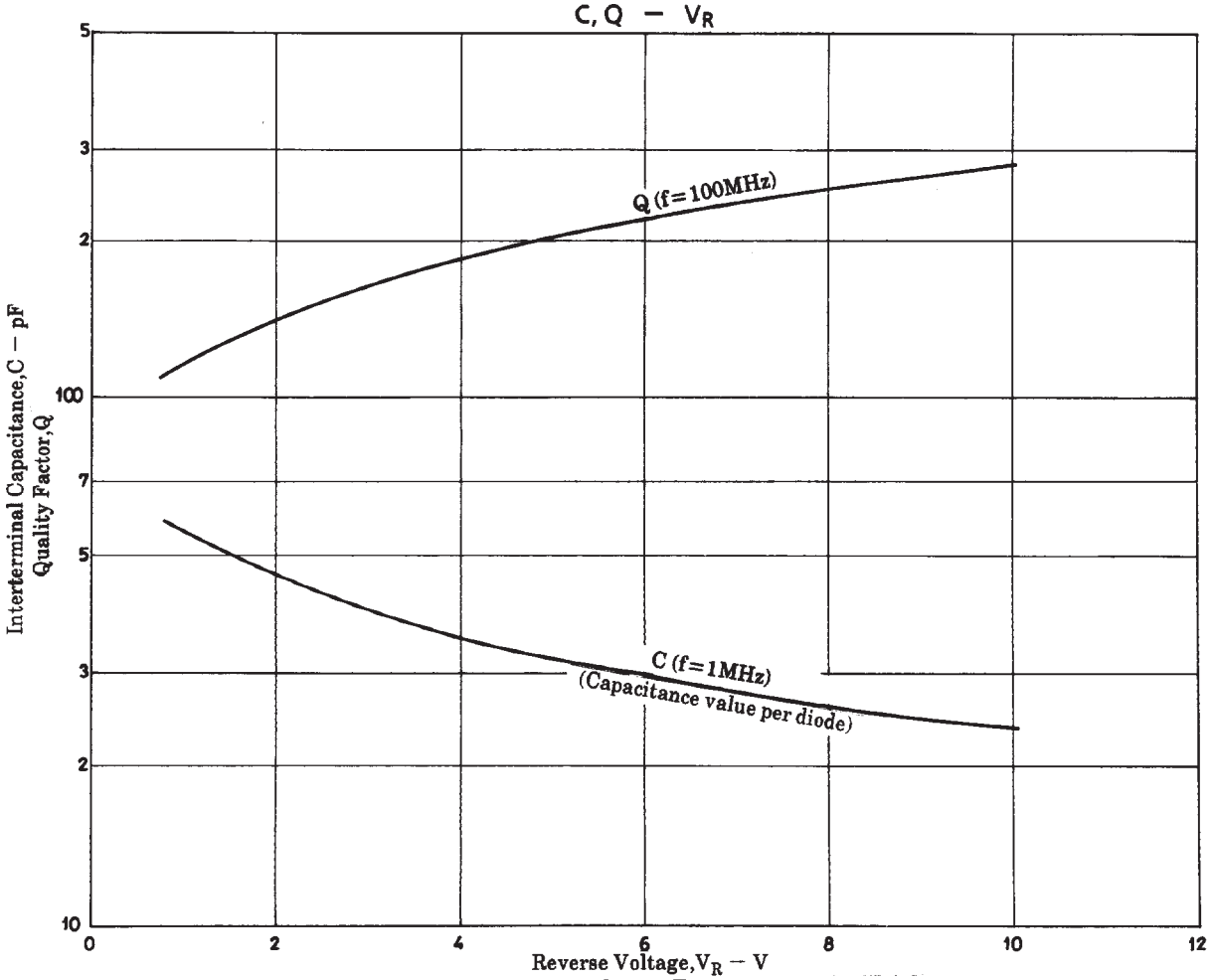
Rank	Capacitance Value (pF)
1	43.0 to 44.5
2	44.0 to 45.5
3	45.0 to 46.5
4	46.0 to 47.5

Electrical Connection

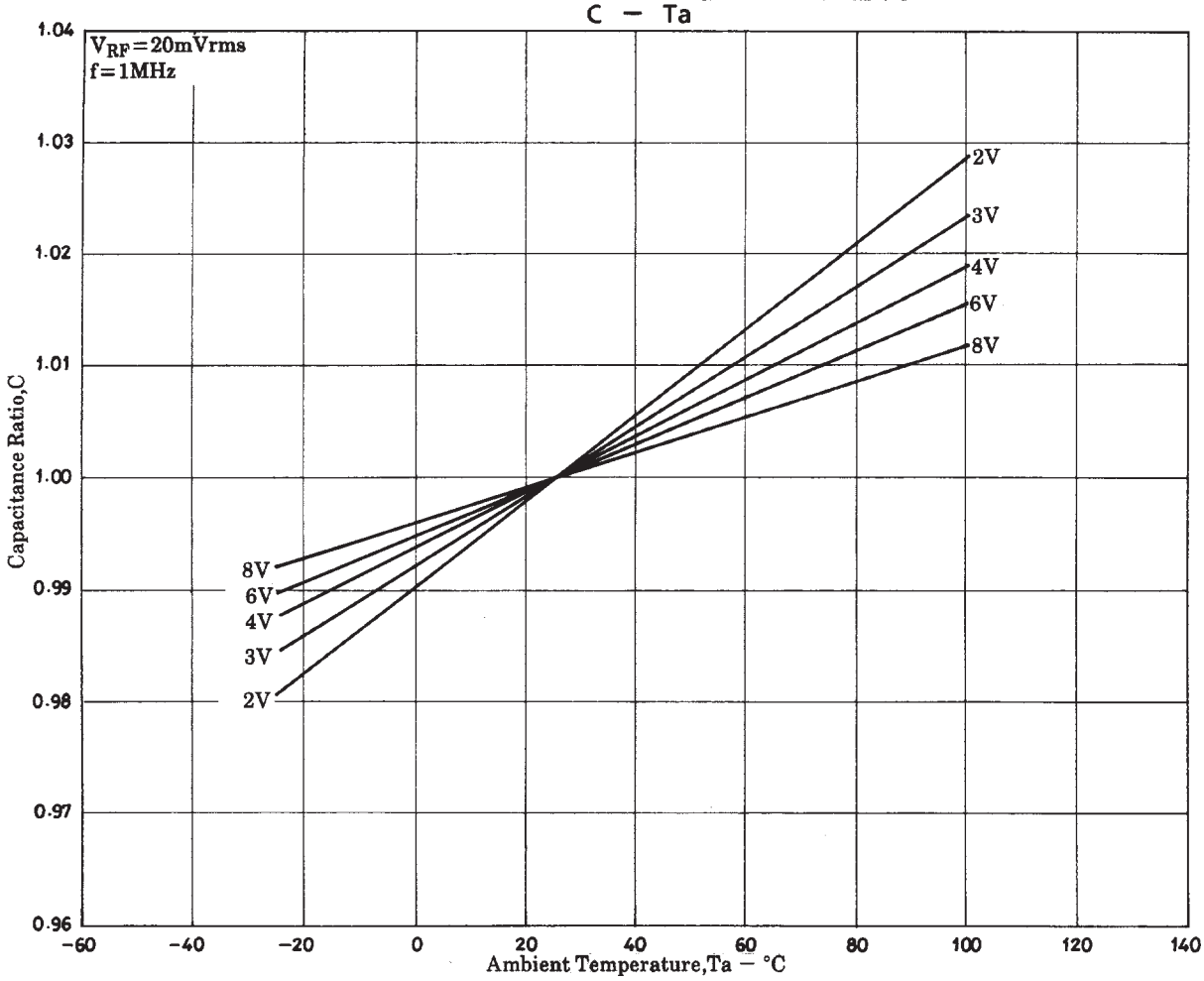


SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquarters
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

C, Q — V_R


Q (f=100MHz)
C (f=1MHz)
(Capacitance value per diode)
Interterminal Capacitance, C — pF
Quality Factor, Q
Reverse Voltage, V_R — V

C — Ta


V_{RF}=20mVrms
f=1MHz
2V
3V
4V
6V
8V
Capacitance Ratio, C
Ambient Temperature, Ta — °C