



# SVC212

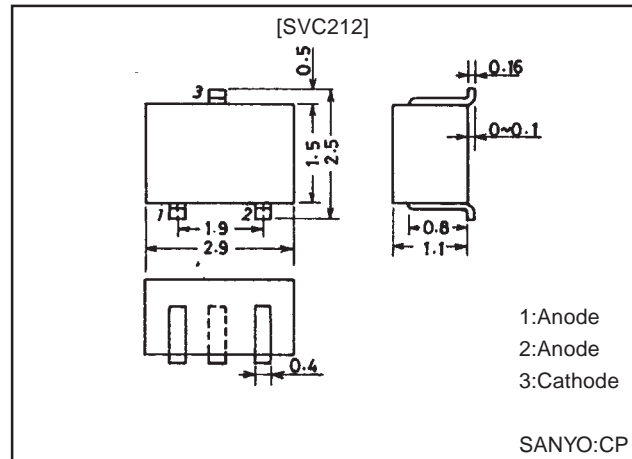
## Diffused Junction Type Silicon Diode Varactor Diode (IOCAP) for FM Receiver Electronic Tuning

### 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

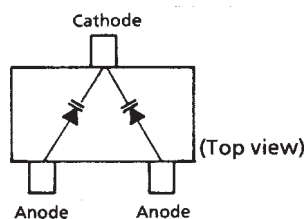
| Parameter                  | Symbol      | Conditions           | Ratings |     |      | Unit |
|----------------------------|-------------|----------------------|---------|-----|------|------|
|                            |             |                      | min     | typ | max  |      |
| Breakdown 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 $C_{2V}$

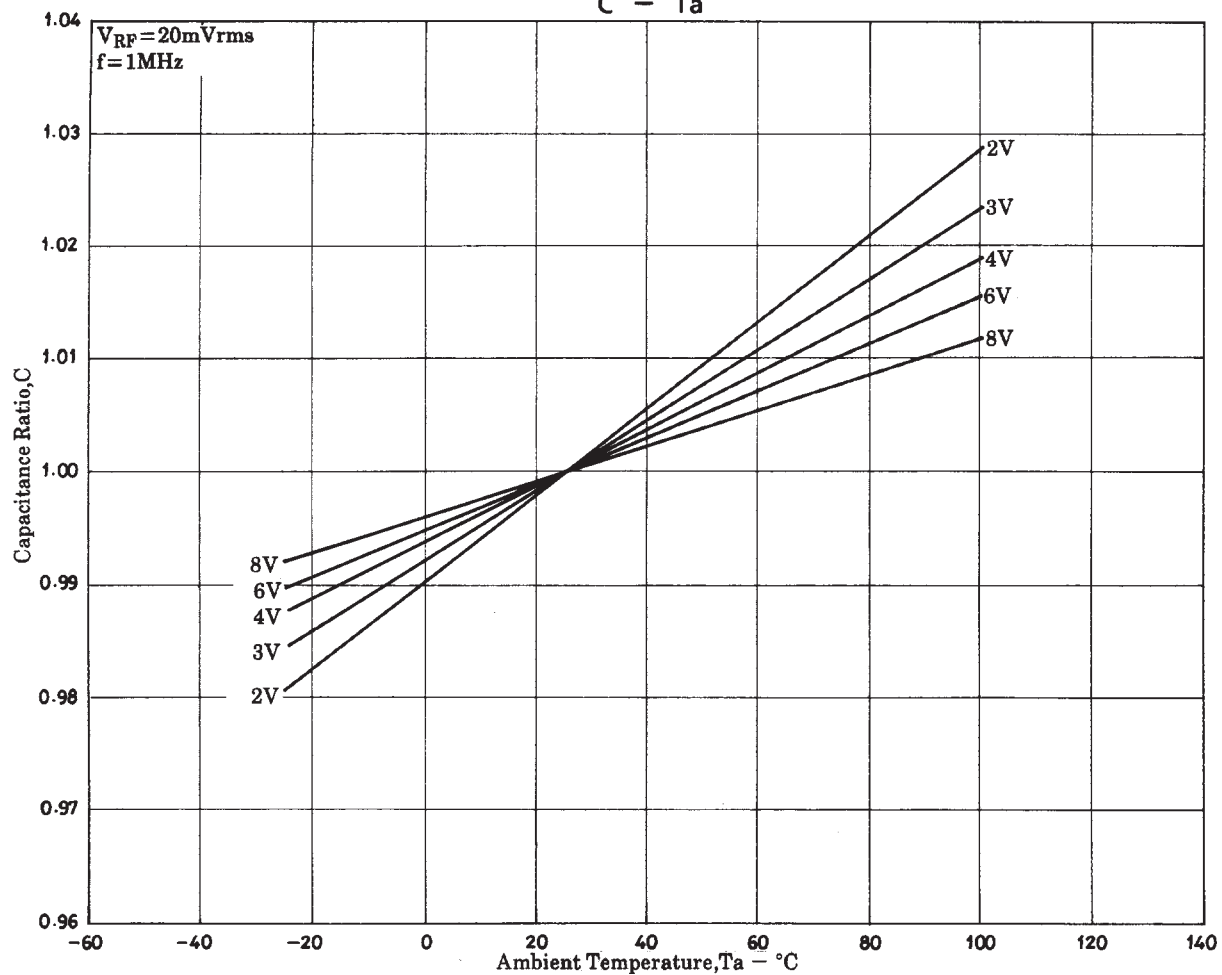
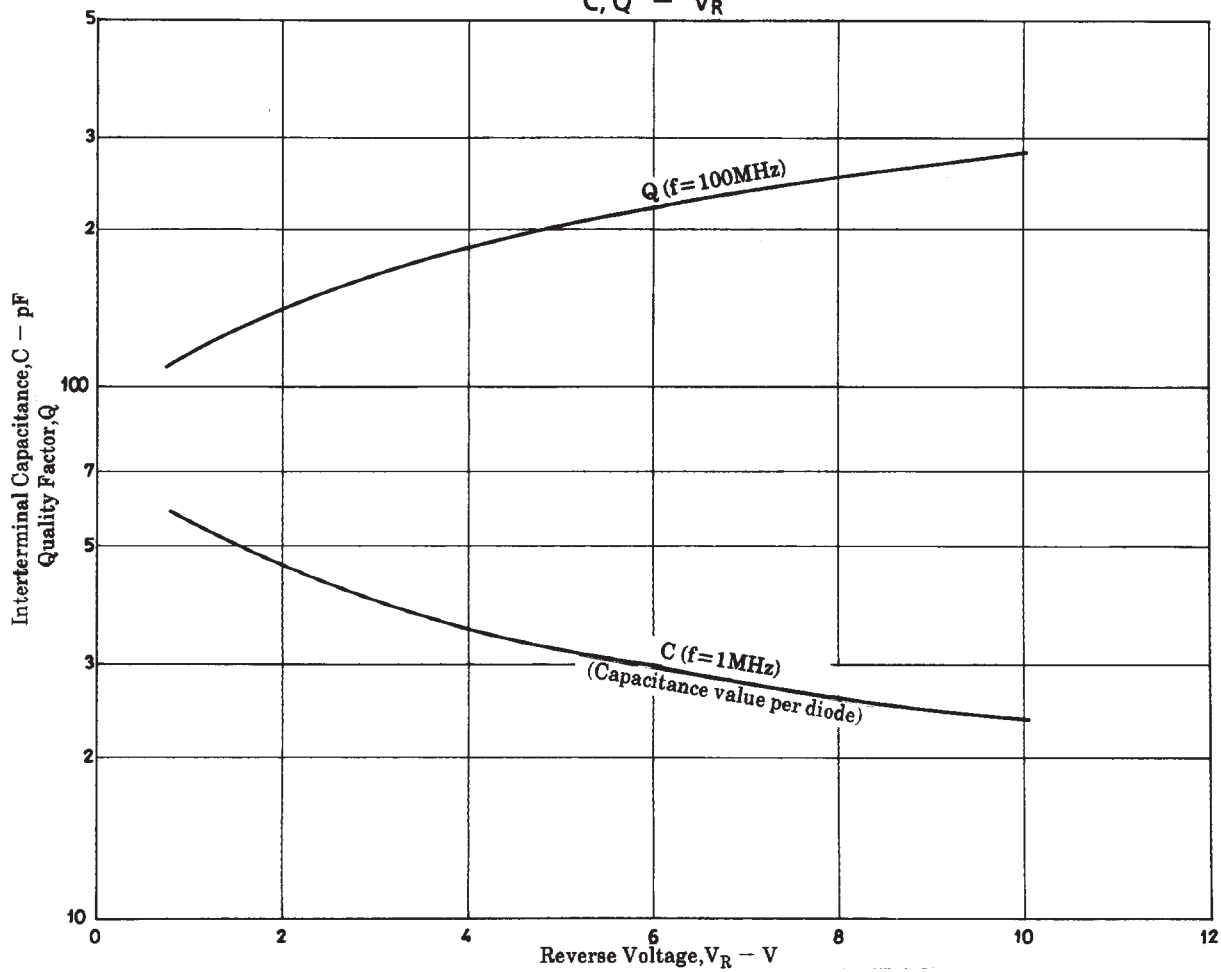
| Rank | Capacitance Value (pF) |
|------|------------------------|
| 1    | 43.0 to 44.5           |
| 2    | 44.0 to 45.5           |
| 3    | 45.0 to 46.5           |
| 4    | 46.0 to 47.5           |

#### Electrical Connection



# SVC212

C, Q -  $V_R$



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