

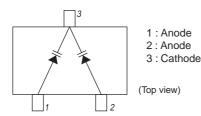


# Varactor Diode for FM Receiver Electronic Tuning Applications

#### **Features**

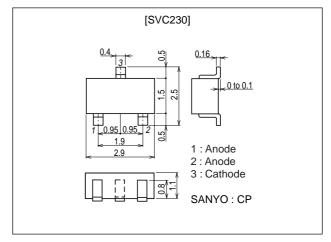
- Twin type varactor diode having an excellent large input characteristic, for use in FM electronic tuning applications.
- Small CP package permits SVC230 applied sets to be compact and slim.
- Possible to be shipped in tape reel packaging, which facilitates automatic insertion.
- · High Q.

#### **Electrical Connection**



## **Package Dimensions**

unit : mm 1169A



# **Specifications**

## Absolute Maximum Ratings at Ta=25°C

| Parameter            | Symbol | Conditions | Ratings     | Unit |
|----------------------|--------|------------|-------------|------|
| Reverse Voltage      | ٧R     |            | 16          | V    |
| Junction Temperature | Tj     |            | 125         | °C   |
| Storage Temperature  | Tstg   |            | -55 to +125 | °C   |

### Electrical Characteristics at Ta=25°C

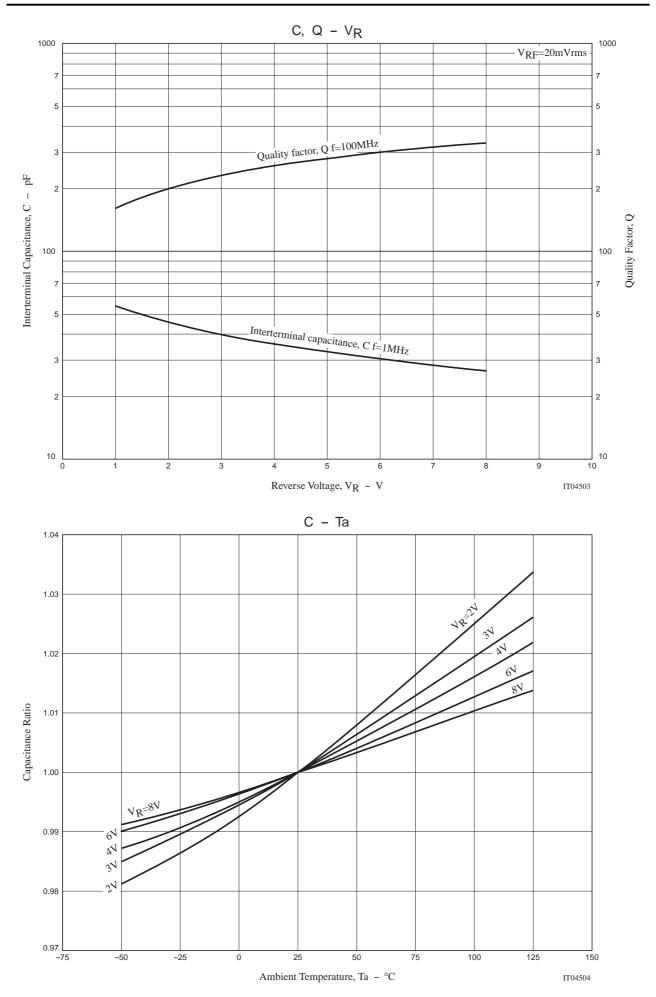
| Parameter                    | Symbol           | Conditions   | Ratings |     |      | Unit  |
|------------------------------|------------------|--|---------|-----|------|-------|
|                              | Symbol           |  | min     | typ | max  | Oille |
| Breakdown Voltage            | V(BR)R           | I <sub>R</sub> =10μA                                 | 16      |     |      | V     |
| Reverse Current              | IR               | V <sub>R</sub> =10V                                  |         |     | 50   | nA    |
| Interterminal Capacitance *1 | C2V              | V <sub>R</sub> =2.0V, f=1MHz                         | 44.0    |     | 46.5 | pF    |
|                              | C8V              | V <sub>R</sub> =8.0V, f=1MHz                         | 25.1    |     | 28.2 | pF    |
| Quality Factor               | Q                | V <sub>R</sub> =3.0V, f=100MHz                       | 100     |     |      |       |
| Capacitance Ratio            | CR               | C2.0V / C8.0V  | 1.65    |     | 1.75 |       |
| Matching Tolerance           | <sup>2</sup> ΔCm | V <sub>R</sub> =2.0V, f=1MHz, (Cmax-Cmin) / CminX100 |         |     | 3    | %     |

Note) \*1 : Capacitance value of one diode

\*2: Matching Tolerance is valid for the devices in one taping reel.

Marking: ZA

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