

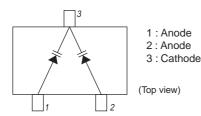


# Varactor Diode for FM Receiver Electronic Tuning Applications

#### **Features**

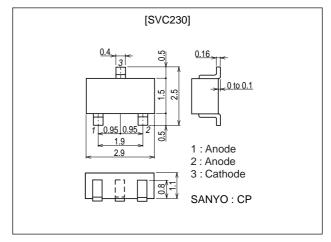
- Twin type varactor diode having an excellent large input characteristic, for use in FM electronic tuning applications.
- Small CP package permits SVC230 applied sets to be compact and slim.
- Possible to be shipped in tape reel packaging, which facilitates automatic insertion.
- · High Q.

#### **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

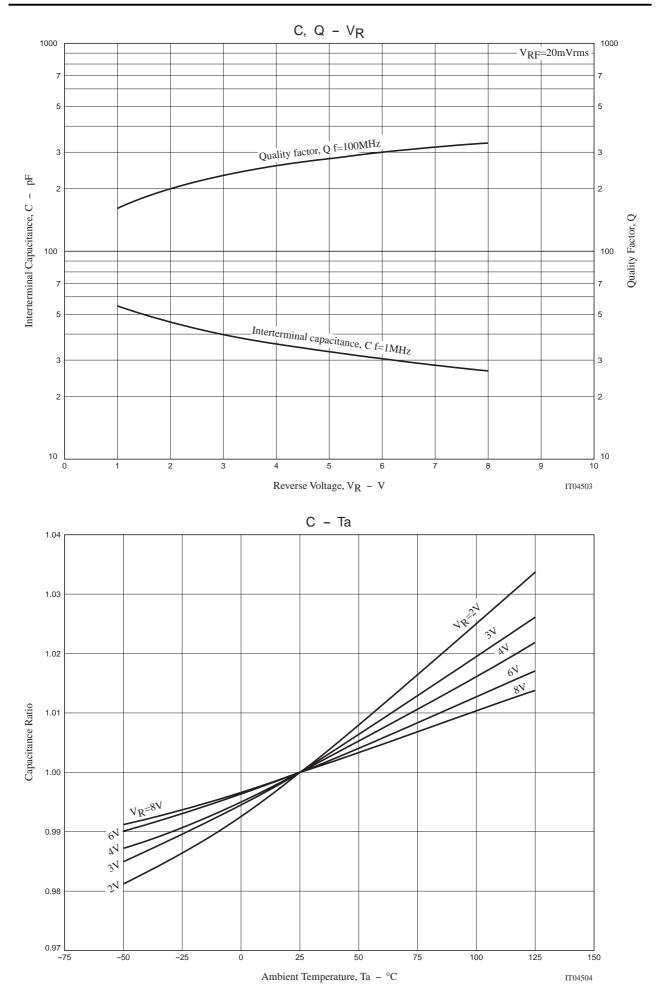
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Breakdown Voltage	V(BR)R	I <sub>R</sub> =10μA	16			V
Reverse Current	IR	V <sub>R</sub> =10V			50	nA
Interterminal Capacitance *1	C2V	V <sub>R</sub> =2.0V, f=1MHz	44.0		46.5	pF
	C8V	V <sub>R</sub> =8.0V, f=1MHz	25.1		28.2	pF
Quality Factor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