

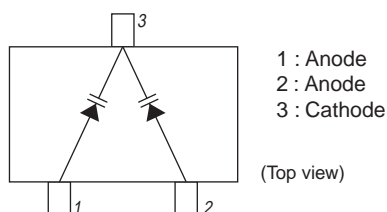
**SVC230**

Varactor Diode for FM Receiver Electronic Tuning Applications

Features

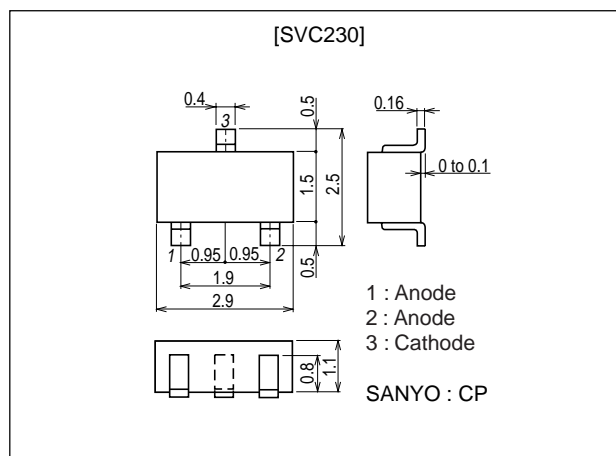
- Twin type varactor diode having an excellent large input characteristic, for use in FM electronic tuning applications.
- Small CP package permits SVC230 applied sets to be compact and slim.
- Possible to be shipped in tape reel packaging, which facilitates automatic insertion.
- High Q.

Electrical Connection



Package Dimensions

unit : mm
1169A



Specifications

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	16			V
Reverse Current	I_R	$V_R=10\text{V}$			50	nA
Interterminal Capacitance	C2V	$V_R=2.0\text{V}, f=1\text{MHz}$	44.0		46.5	pF
	C8V	$V_R=8.0\text{V}, f=1\text{MHz}$	25.1		28.2	pF
Quality Factor	Q	$V_R=3.0\text{V}, f=100\text{MHz}$	100			
Capacitance Ratio	CR	C2.0V / C8.0V	1.65		1.75	
Matching Tolerance	ΔC_m	$V_R=2.0\text{V}, f=1\text{MHz}, (C_{max}-C_{min}) / C_{min} \times 100$			3	%

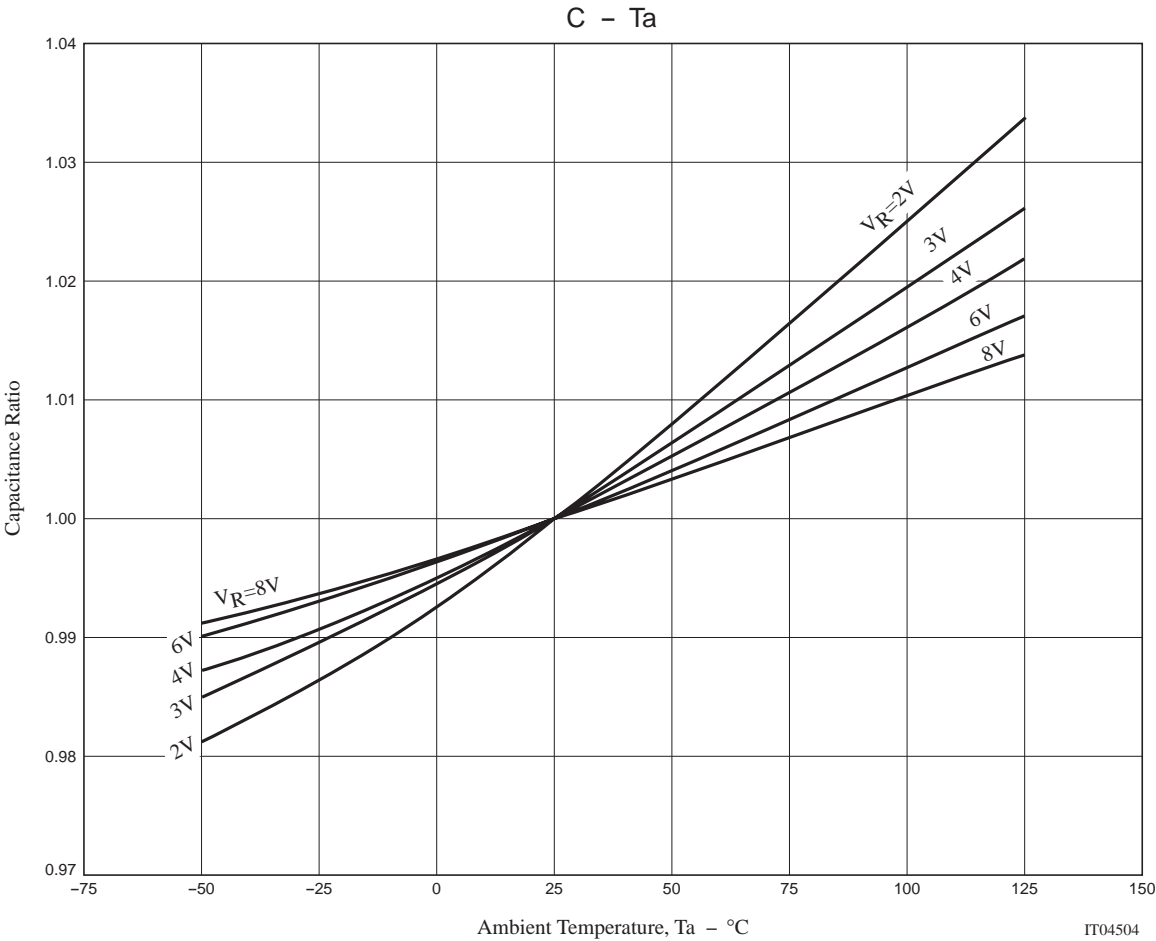
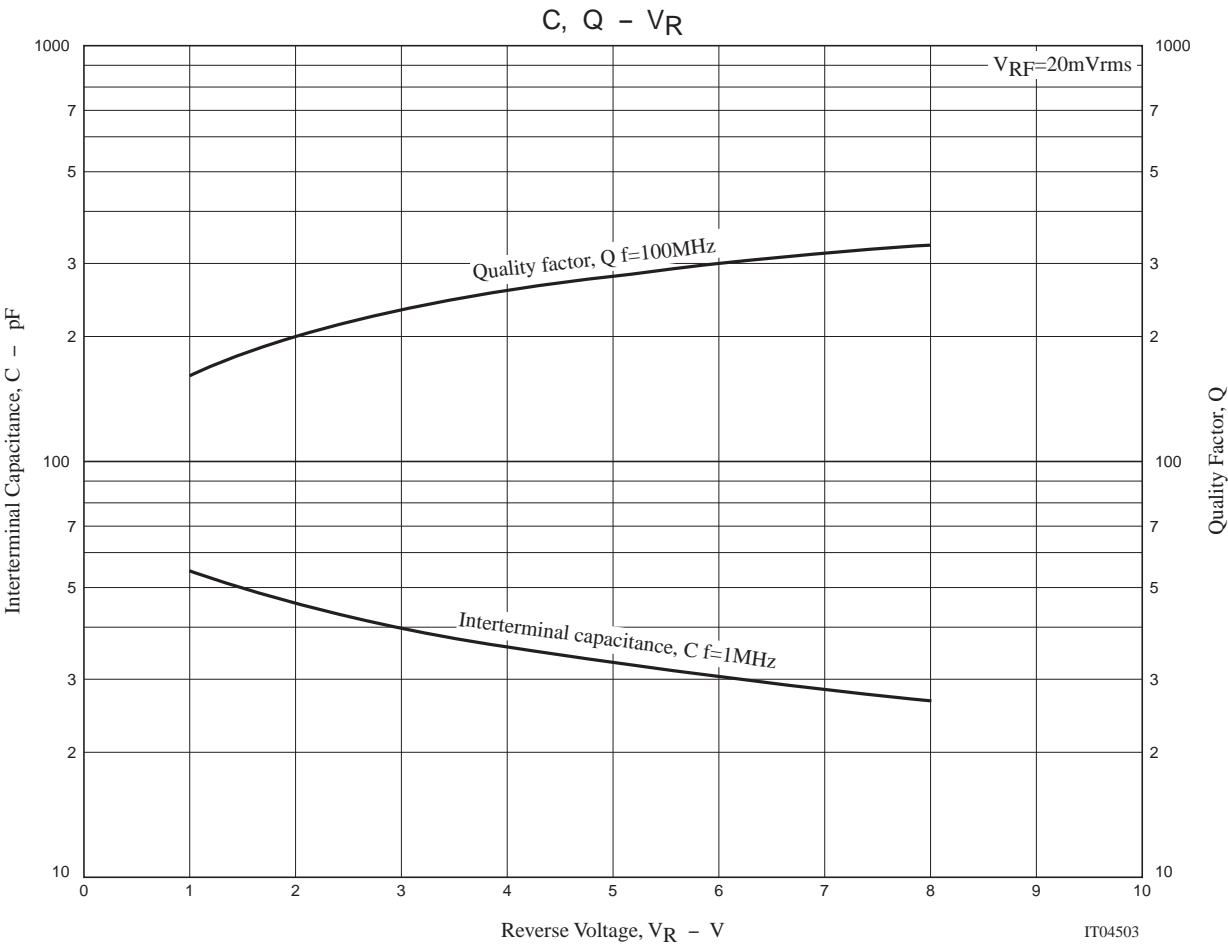
Note) *1 : Capacitance value of one diode

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

Marking : ZA

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SVC230



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