

SANYO Semiconductors DATA SHEET

Diffused Junction Type Silicon Diode

SVC203CP — Varactor Diode for FM Low-Voltage **Electronic Tuning Use**

Features

- · Dual type with a good linearity of C-V characteristic. Excels in large input characteristics.
- · Small-sized package (CP) usable in ultrasmall-sized sets (surface mount type).
- · Applicable to FM wide band due to high capacitance ratio (VR=1.5 to 9V).

Specifications

Absolute Maximum Ratings at Ta=25°C

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

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Annual Company of the	Ratings		
		Conditions	min	typ	max	Unit
Breakdown Voltage	V(BR)R	IR=1μA	16			٧
Reverse Current	IR	V _R =10V			50	nA
Interterminal Capacitance *	C _{1.0} V	V _R =1.0V, f=1MHz	58.80		65.98	pF
	C _{6.0V}	V _R =6.0V, f=1MHz	18.72		25.11	pF
***	C9.0V	V _R =9.0V, f=1MHz	10.84		13.40	pF
Quality Factor	Q	VR=3.0V, f=100MHz	60			070.000-0000
Capacitance Ratio	CR	C1.0V / C9.0V	4.6			
Matching Tolerance	The second secon	VR=1.0V (Cmax Cmin)			6.5	%
		VR=6.0V (Cmax - Cmin) Cmin X100			5.5	%
		VR=9.0V			11.8	%

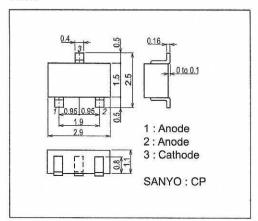
^{*} Capacitance value of one diode

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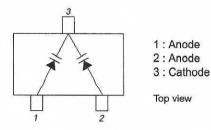
Package Dimensions

unit : mm

unit : mn 1169A



Electrical Connection



Address and Capacitance Value (Reference Value)

0.000.0000.0000.0000.0000.0000.0000.0000	C1.0V	C6.0V			C9.0V
Address Capacitance (pF)		Address Capacitance (pF)		Address Capacitance (pF	
11	59.10	61	18.91	0.1	10.89
62.92	62.92	61	19.95	91	12.17
12	61.97	(2)	19.76	00	11.93
12	65.65	62	20.85	92	13.33
		62	20.64		00000000000000000000000000000000000000
		63	21.79		
		64	21.57		
	75m 1 - 151 M. Val	22.77	22.77		
		65	23.80		
		66	23.56		De art automotive de la constante de la consta
		00	24.87		