

## VARIABLE-CAPACITANCE DIODES (IOCAP)

Low-voltage and high-voltage variable capacitance diodes are available for both of AM electronic tuning use and FM electronic tuning use.

### Features

- \* High capacitance ratio
  - \* Good linearity
  - \* Small-sized package
  - \* Single type and twin type available
  - \* High Q
- ◆  $\Delta C_m = \frac{C_{max} - C_{min}}{C_{min}} \times 100$ . ★  $\Delta C_m = \frac{C_{Dn} - C_{D3}}{C_{D3}} \times 100$ .

### AM Electronic Tuning Use (Ta=25°C)

Type No. ( ):Marking	Package	Absolute Maximum Ratings V <sub>R</sub> (V)	Electrical Characteristics		
			V <sub>R</sub> (V)	C (PF) min max	ΔC <sub>m</sub> max (%) ◆
SVC321SPA	SPA SPA'	16	1.2 8	388.1~459.1 20.3~27.05	3
SVC323	SPA SPA'	16	1 8	462.8~536.7 21.12~27.05	3
SVC341(VA)	PCP	16	1 9	423~503 17.5~23.5	2
SVC342	NP	16	1 9	423~503 17.5~23.5	2
SVC343(VC) SVC344	PCP NP	30	1 4.5	410~445 21~26	2 3
SVC345(VB) SVC346	PCP NP	33	1 6.5	460~540 21~27	2
SVC352	SIP5	16	1 8	460~540 21~27	★ ± 2.5
SVC353 SVC354	MFP6	16	1 6	460~540 21~27	★ ± 2.5
SVC363 SVC364			1 8	428~500 20.5~27	★ ± 2.5
SVC371	SOP8	16	1 8	460~540 19~26	2.5

### FM Electronic Tuning Use (Ta=25°C)

Type No. ( ):Marking	Package	Absolute Maximum Ratings V <sub>R</sub> (V)	Electrical Characteristics		
			V <sub>R</sub> (V)	C (PF) min max	ΔC <sub>m</sub> max (%) ◆
SVC201SPA	SPA'	16	1.6 7.5	28.19~37.45 10.17~12.99	5
SVC202SPA	SPA	16	1.6 7.5	28.19~37.45 10.17~12.99	5
SVC203SPA	SPA	16	3 8	36.92~43.03 12.64~16.84	3
SVC203CP(AV)	CP	16	1 9	58.8~65.98 10.84~13.4	6.5 11.8
SVC208(AV)	CP	16	3 8	36.92~43.03 12.77~16.84	3
SVC211SPA	SPA	32	3 25	37~42 14.8~18.2	-
SVC212(Y)	CP	16	2 8	43~47.5 24.5~28.8	-
SVC253(NV)	CP	16	1 9	51~76 9.5~15.5	-

### Other Use (FM, AFC, telephone, CB transceiver) (Ta=25°C)

Type No.	Package	Absolute Maximum Ratings V <sub>R</sub> (V)	Electrical Characteristics		
			V <sub>R</sub> (V)	C (PF) min max	ΔC <sub>m</sub> max (%) ◆
SVC251SPA SVC252(HV)	SPA CP	12 16	1.6 5	23 ~ 38 11 ~ 19	0.6

### Pin Diodes (for VHF, UHF, AGC) (Ta=25°C)

except PCP with C=0.7PF(Typ)

All products are with V<sub>R</sub>=50V, C=23PF(Typ.) except CP(1SV272) with C=0.6PF(Typ)

Type No.	Connect-ion type	r s (typ)				
		Conditions: I <sub>F</sub> =10mA, f=100MHz				I <sub>F</sub> =50mA, f=470MHz
		2.5 Ω	3.5 Ω	5 Ω	7.5 Ω	0.5 Ω
MCP	Single Series	1SV263(JV) 1SV264(KV)	1SV248(FV) 1SV249(GV)	1SV247(BV) 1SV246(CV)		For antenna SW
CP	Single Series	1SV266(JV) 1SV267(KV)	1SV250(FV) 1SV251(GV)	1SV233(BV) 1SV234(CV)	1SV294(PV)	1SV272(MV)
CP5	Parallel	1SV265(LV)		1SV241(EV)		
PCP	Single					1SV268(VD)

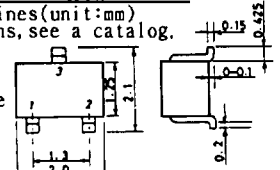
These specifications are subject to change without notice.

Case Outlines(unit:mm)  
For package pins, see a catalog.

SANYO:MCP

1: Anode  
2: Cathode  
3: Anode/Cathode

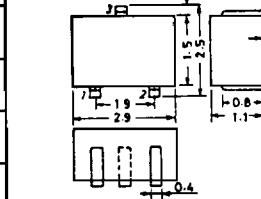
1: Anode  
2: NC  
3: Cathode



SANYO:CP

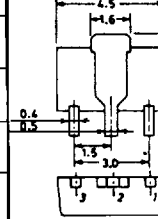
1, 2: Anode, 3: Cathode  
1: Anode, 2: NC, 3: Cathode

1: Anode, 2: Cathode,  
3: Anode/Cathode



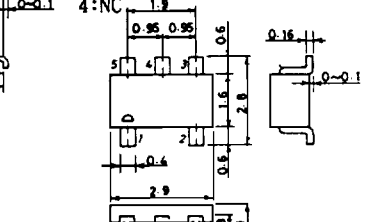
SANYO:PCP

1, 3: Anode, 2: Cathode



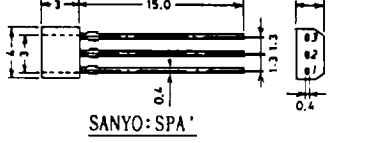
SANYO:CP5

1, 2: Cathode, 3, 5: Anode  
4: NC



SANYO:SPA

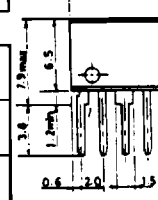
1, 3: Anode, 2: Cathode



SANYO:SPA'

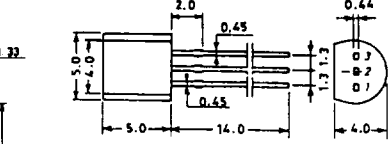
SANYO:SIP5

1, 2: Anode, 3: Cathode



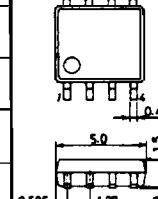
SANYO:NP

1, 3: Anode, 2: Cathode



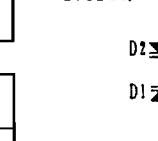
SANYO:SOP8

1, 2: Anode, 3: Cathode

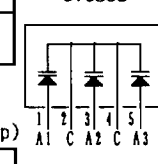


SANYO:MFP6

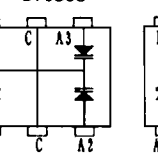
SVC341, SVC342, SVC343,  
SVC344, SVC345, SVC346.



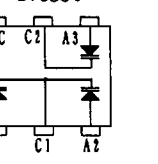
SVC352



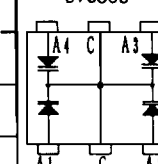
SVC353



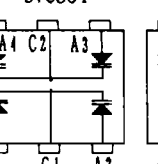
SVC354



SVC363



SVC364



SVC371

