

SVC202, 202SPA

Duffused Junction Type Sillicon Diode Varactor Diode (IOCAP) for FM Receiver Electronic Tuning

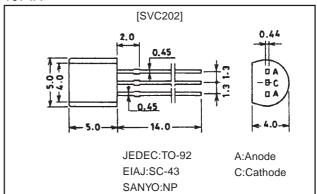
Features

• Twin type FM electronic tuning-use varactor diode which excels in large input characteristics.

Package Dimensions

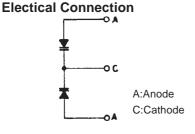
unit:mm

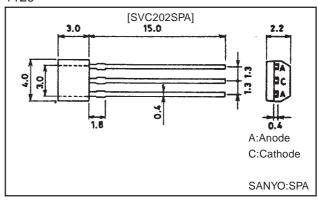
1074A



unit:mm

1129





Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Voltage	٧R		-16	V
Junction Temperature	Tj		100	°C
Storage Temperature	Tstg		-55 to +100	°C

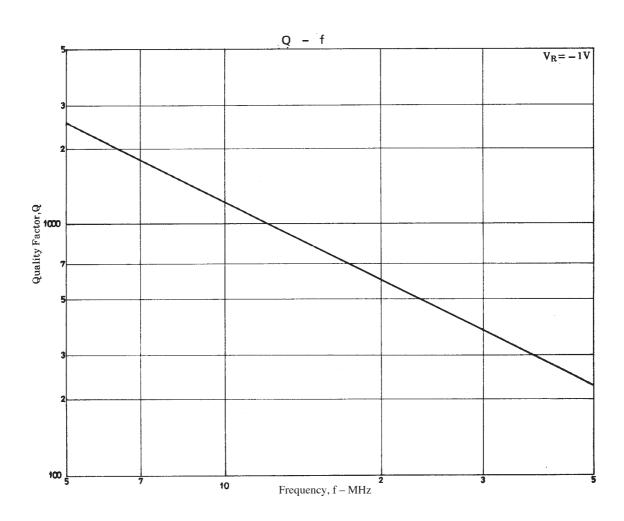
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions		typ	max	Onit
Breakdown Voltage	V(BR)R	I _R =-10μA	-16			V
Reverse Current	I _R	V _R =-9V			-50	nA
Interterminal Capacitance*	C _{1.6V}	V _R =-1.6V, f=1MHz	28.19		37.45	pF
	C _{3.5V}	V _R =-3.5V, f=1MHz	19.04		24.33	pF
	C _{5.0V}	V _R =-5.0V, f=1MHz	14.48		18.49	pF
	C _{7.5V}	V _R =-7.5V, f=1MHz	10.17		12.99	pF
Capacitance Ratio	CR	C _{1.6V} /C _{7.5V} , f=1MHz	2.2		3.7	
Series Resistance	r _s	f=50MHz, V _R =-1V			0.6	Ω
Matching Tolerance	ΔC _m	(C _{max} -C _{min})/C _{min}			0.05	

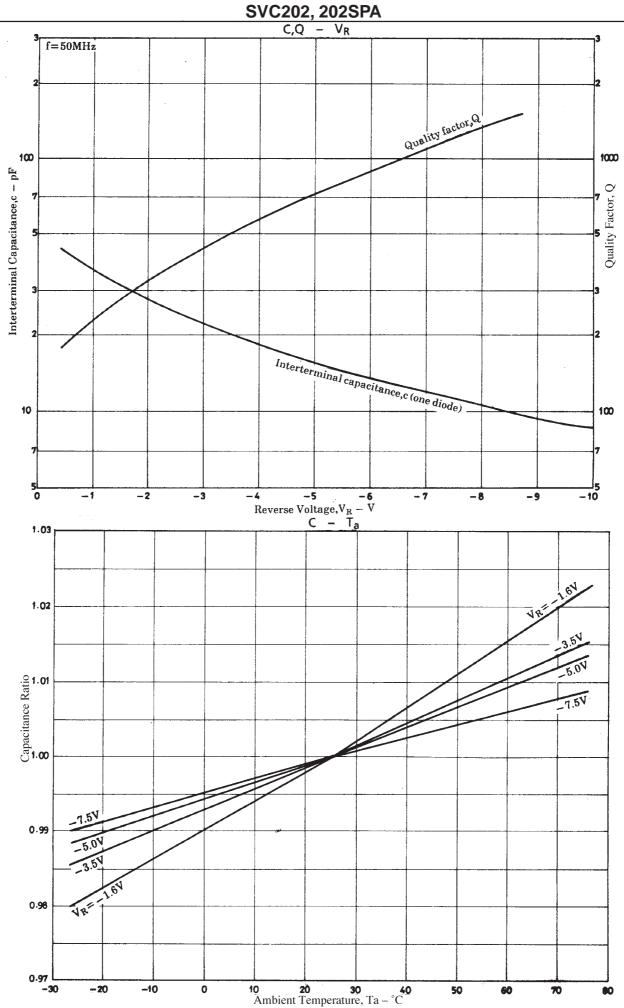
Note)*:Capacitance value of one diode

Address and Capacitance Value (one diode)

TEST POINT	C 1.6V	C 3.5V	C 5.0V	C 7.5V		
	Address Capacitance (pF)	Address Capacitance (pF)	Address Capacitance (pF)	Address Capacitance (pF)		
	38 [37.45 35.67	27 [^{24.33} _{23.17}	20 [18.49 17.61	11 [12.99 12.37		
LUE	37 [36.01 34.30	26 [23.39 22.28	19 [17.78 16.93	10 [12.50 11.90		
CAPACITANCE VALUE	36 { 34.63 32.98	25 [22.49 21.42	18 [17.09 16.28	9 [12.01 11.44		
CITAN	35 [33.30 31.71	24 [21.63 20.60	17 [16.43 15.65	8 [11.54 10.99		
CAPA	34 [32.02 30.50	23 [20.80 19.81	16 [15.81 15.05	7 [11.11 10.58		
	33 [30.79 29.32	22 [20.00 19.04	15 [15.20 14.48	6 [10.68 10.17		
	32 [29.60 28.19					







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