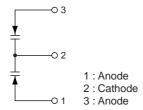


Varactor Diode (IOCAP) for FM Receiver Electronic Tuning

Features

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

Electical Connection

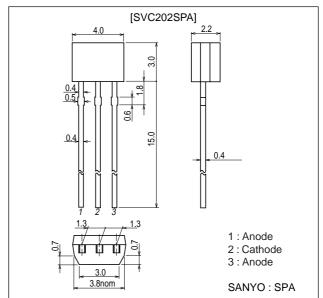


Specifications

Absolute Maximum Ratings at Ta=25°C

Package Dimensions

unit : mm 1129A



Parameter Symbol Conditions Ratings Unit ٧ Reverse Voltage ۷R 16 Junction Temperature 100 °C Tj Storage Temperature -55 to +100 °C

Electrical Characteristics at Ta=25°C

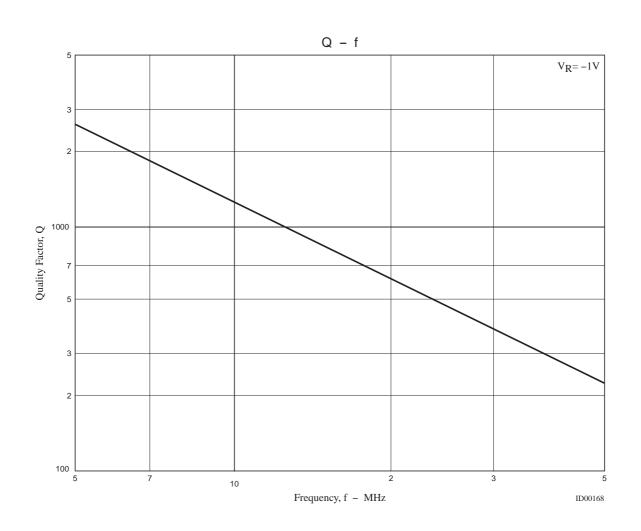
Parameter	Symbol	Conditions	Ratings			Unit
Falanielei		Conditions	min	typ	max	Offic
Breakdown Voltage	V(BR)R	I _R =10μA	16			V
Reverse Current	IR	V _R =9V			50	nA
	C _{1.6V}	V _R =1.6V, f=1MHz	28.19		37.45	pF
Intertancian I Committee - *	C _{3.5} V	V _R =3.5V, f=1MHz	19.04		24.33	pF
Interterminal Capacitance*	C _{5.0} V	V _R =5.0V, f=1MHz	14.48		18.49	pF
	C _{7.5} V	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	

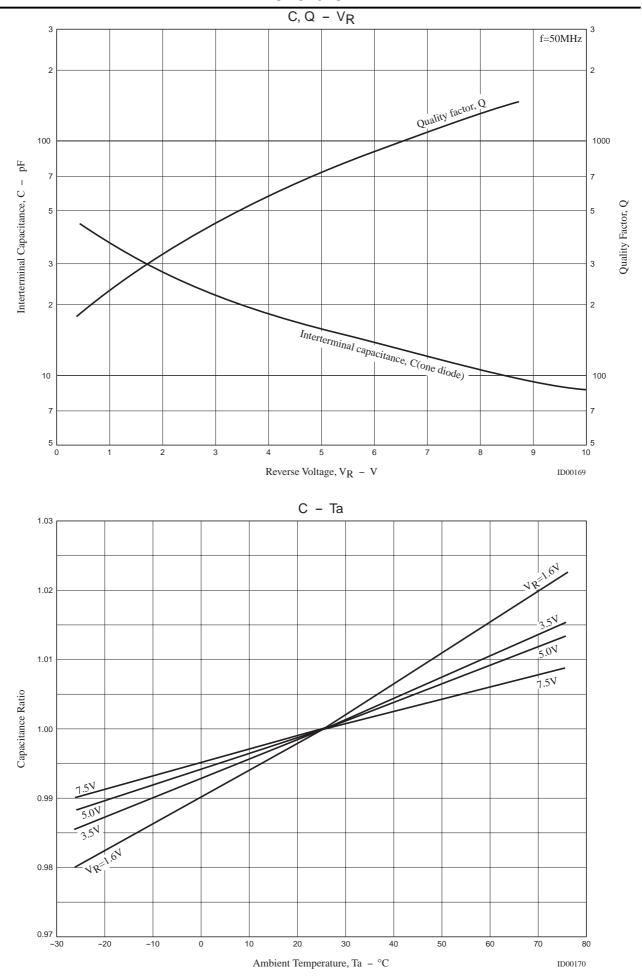
Note)*: Capacitance value of one diode

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Address and Capacitance Value (one diode)

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





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