Silicon Diffused Junction Type

SVC233



Varactor Diode for FM Band Pager

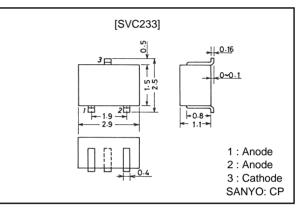
Features

- Low Voltage (4.5V).
- Twin type varactor diode device for FM band pagers because of excellent large-signal input characteristics.
- Small-size package (CP) permitting SVC233-applied sets to be compact and slim.
- Possible to offer the SVC233 devices in a tape reel packaging, which facilitates automatic insertion.

Package Dimensions

unit: mm

1169A-CP



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltege	V _R		16	V
Junction Temperature	Tj		125	°C
Storage temperature	Tstg		-55 to +125	°C

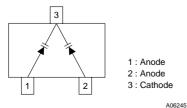
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Breakdown Voltage	V(BR)R	I _R =10μA	16			V
Reverse Current	IR	V _R =10V			50	nA
Interterminal Capacitance *	C _{1V}	V _R =1.0V, f=1MHz	62.02		68.79	pF
	C _{3.0V}	V _R =3.0V, f=1MHz	33.45		41.98	pF
	C _{4.5V}	V _R =4.5V, f=1MHz	21.45		28.27	pF
Quality Factor	Q	V _R =3.0V, f=100MHz	60			
Capacitance Ratio	CR	C _{1.0V} / C _{4.5V}	2.35		3.00	
Matching Tolerance	ΔCm	V _R =1.0, 3.0, 4.5V, f=1MHz			0.03	
		(Cmax – Cmin) / Cmin				

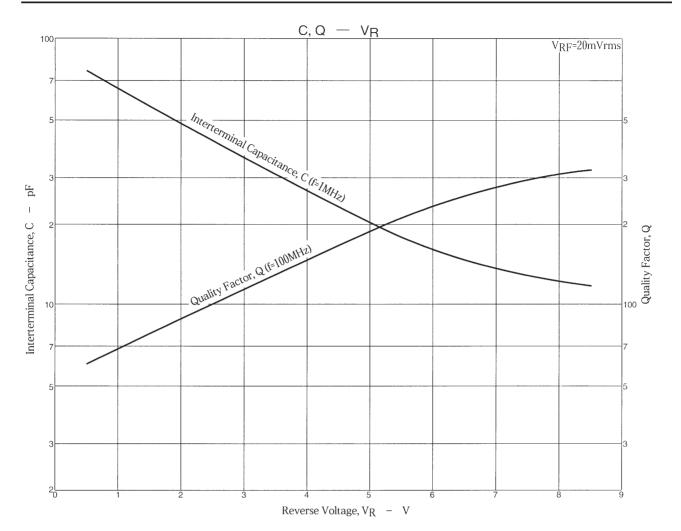
Note) * : Capacitance value of one diode

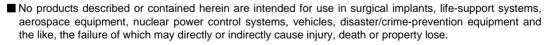
Marking : SV

Electrical Connection



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