

SVC341

Diffused Junction Type Sillicon Diode
Varactor Diode
for Receiver Electronic Tuning Use

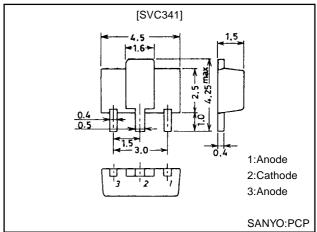
Features

- · Twin type varactor diode for low-voltage AM electronic tuning use.
- · High capacitance ratio.
- · Excellent linearity of C-V characteristic.
- · High Q
- · Ultrasmall package making it possible to make SVC341-applied sets smaller and slimmer.
- · Possible to offer the SVC341 devices in a tape reel packaging, which facilitates automatic mounting.

Package Dimensions

unit:mm

1222A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_{R}		16	V
Junction Temperature	Tj		100	°C
Storage Temperature	Tstg		-55 to +100	°C

Electrical Characteristics at Ta = 25°C

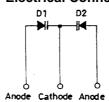
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Breakdown Voltage	V _(BR) R	I _R =10μA	16			V
Reverse Current	I _R	V _R =9V			100	nA
Interterminal Capacitance*	C _{1V}	V _R =1V, f=1MHz	423.0		503.0	pF
	C _{6V}	V _R =6V, f=1MHz	46.0		61.0	pF
	C _{9V}	V _R =9V, f=1MHz	17.5		23.5	pF
Quality Factor	Q	V _R =1V, f=1MHz	200			
Capacitance Ratio	CR	C _{1V} /C _{9V}	19.5			
Matching Tolerance	ΔC _m	(C _{max} -C _{min})/C _{min} , (Between D1 to D2) V _R =1V to 9V			0.02	

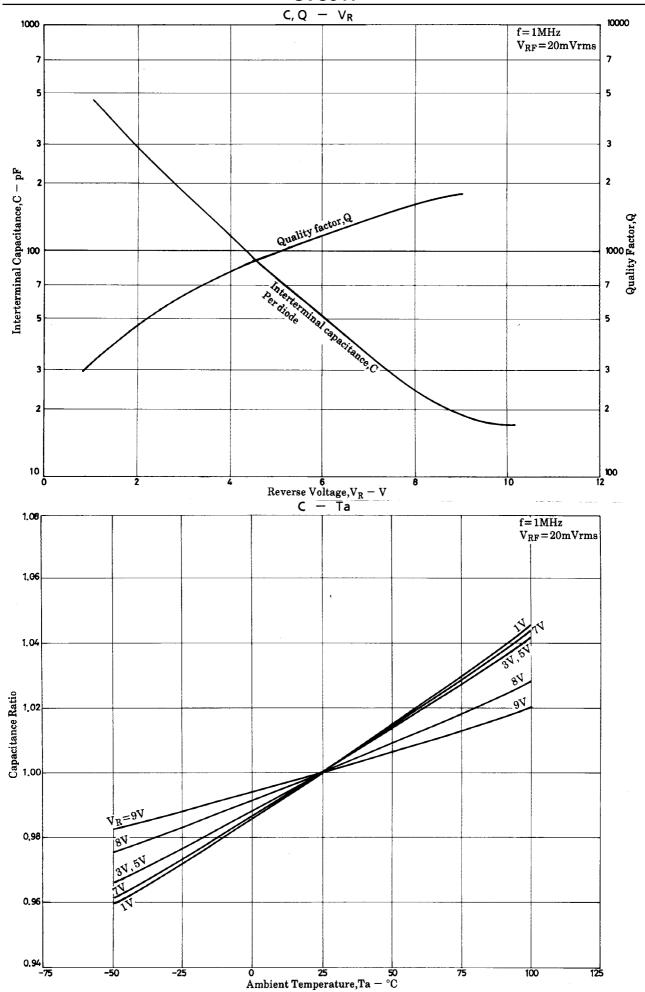
Note)*:The value of interterminal capacitance represent the average of mesurements for tow elements.

Note)*:The SVC341 is classified by C_{1V} as follows:

Rank	C _{1V} (pF)
K	423.0 to 455.0
L	445.0 to 478.0
M	468.0 to 503.0

Electrical Connection





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