

SVC347

Varactor Diode (IOCAP) for AM Receiver Electronic Tuning

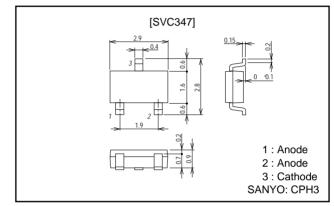
Features

- Twin type varactor diode for AM electronic tuning use.
- Miniaturization and high-integration of tuner sets can be easily achieved due to the small package.
- High capacitance ratio and high quality factor.
- Provided in a tape reel packaging.
- Surface mount type.

Package Dimensions

unit: mm

1291



Specifications

Absolute Maximum Ratings at Ta=25°C

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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		
			min	typ	max	Unit
Breakdown voltage	V(BR)R	I _R =10μA	16			V
Reverse current (One diode)	IR	V _R =9V			100	nA
Interterminal capacitance	C _{1V}	V _R =1V, f=1MHz *1	470*		535*	pF
(Capacitance value of	C _{6V}	V _R =6V, f=1MHz		55		pF
one diode)	C _{8V}	V _R =8V, f=1MHz	20		26	pF
Quality factor	Q	V _R =1V, f=1MHz	200			
Capacitance ratio	CR	C _{1V} / C _{8V} , f=1MHz	18.5			
Matching tolerance *2	ΔCm	(Cmax - Cmin) / Cmin×100				
		V _R =1V, f=1MHz			2.5	%
		V _R =6V, f=1MHz			3.0	%
		V _R =8V, f=1MHz			3.0	%

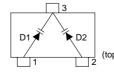
*1 : 1MHz signal : 20mVrms

*2: Matching tolerance between D1 and D2

* : The SVC347 is classified bosed on C1V capacitance as shown in the table below :

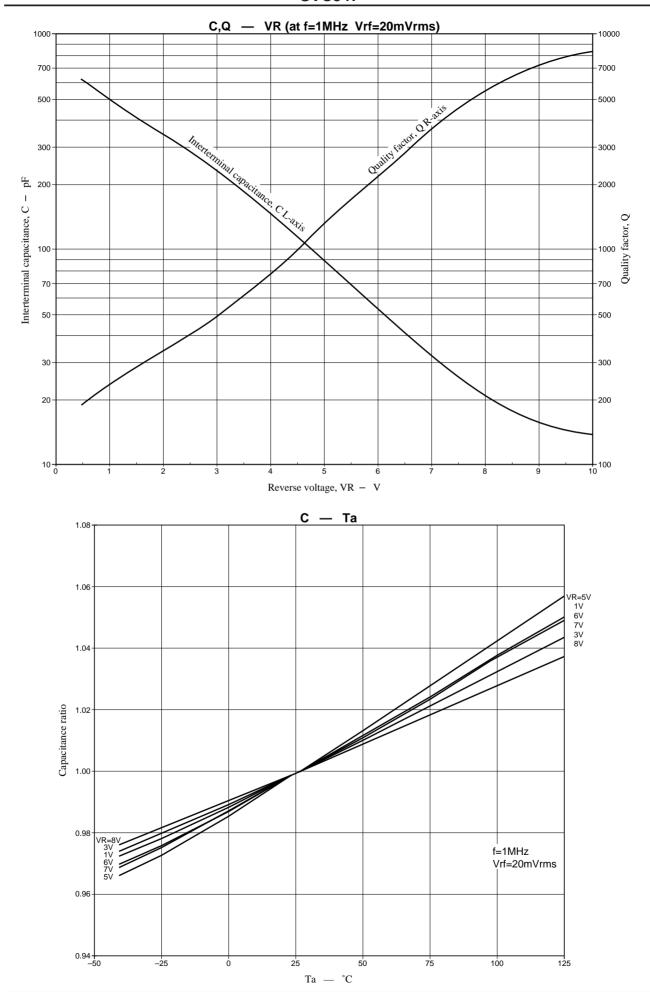
Rank	C1V (pF)
S	470 to 505
Т	495 to 535

Electrical Connection



pp view) 1:Anode 2:Anode 3:Cathode

A09978



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