Ordering number: EN5816

Silicon Diffused Junction Type



Varactor Diode (IOCAP) for **AM Receiver Electronic Tuning**

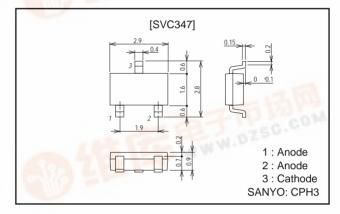
Features

- 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

16 V 125 °C tg -55 to +125 °C	Parameter	Symbol	Conditions	Ratings	Unit
1-1	Reverse voltege	V _R		16	V
tg55 to +125	Junction temperature	Tj		125	°C
C (Storage temperature	Tstg		-55 to +125	°C
	Storage temperature Electrical Character			-55 to +125	
				Detinos	

Electrical Characteristics at Ta=25°C

Parameter	Symbol Conditions		Ratings			Unit
i arameter	Cymbol	Conditions	min	typ	max	Offic
Breakdown voltage	V(BR)R	I _R =10µA	16			V
Reverse current (One diode)	IR 17	V _R =9V			100	nA
Interterminal capacitance	C ₁ V	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		-17	770
Capacitance ratio	CR	C _{1V} / C _{8V} , f=1MHz	18.5	FE -	OZS	, C . W .
Matching tolerance *2	ΔCm	(Cmax – Cmin) / Cmin×100		At At.		
		V _R =1V, f=1MHz			2.5	%
		V _R =6V, f=1MHz			3.0	%
- P. C.	-7-11	V _R =8V, f=1MHz			3.0	%

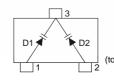
*1:1MHz signal:20mVrms

*2 : Matching tolerance between D1 and D2

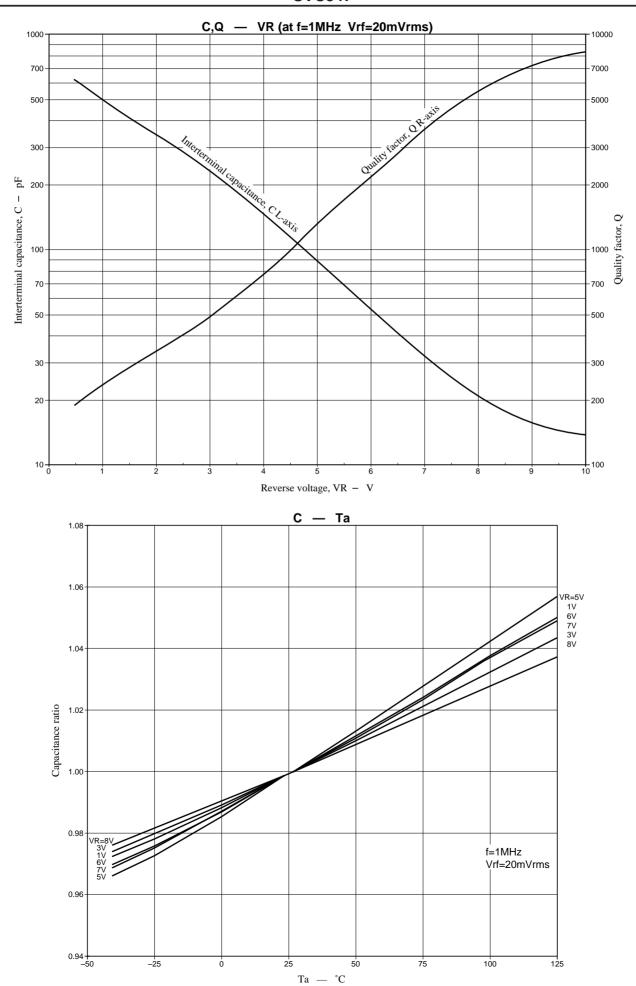
*: The SVC347 is classified bosed on C1V capacitance as shown in the table below:

	Rank	C1V (pF)
30	SDE	470 to 505
/	T	495 to 535

Electrical Connection



1:Anode 2:Anode



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