

SVC385 — Diffused Junction Type Silicon Composite Varactor AM Low Voltage Electronic Tuning Applications

Features

- Twin type varactor diode for low-voltage AM electronic tuning use.
- Low voltage (5.5V).
- High Q.
- Possible to offer the SVC385 devices in a tape reel packaging.
- Surface mount type.
- · Small-sized package permitting SVC385-applied sets to be compact and slim.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°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 =9V			100	nA
Interterminal Capacitance *1	C _{1V}	V _R =1V, f=1MHz *2	339.0		381.0*	pF
	C _{3.5V}	V _R =3.5V, f=1MHz		65		pF
	C _{5.5V}	V _R =5.5V, f=1MHz	17.0		23.0	pF
Quality Factor	Q	V _R =1V, f=1MHz	200			
Capacitance Ratio	CR	C _{1V} / C _{5.5V}	16.0			
Matching Tolerance	∆Cm	(Cmax-Cmin) / CminX100			2.0	%
		(Between D1 and D2) V _R =1 to 5.5V				

Marking : V6

*1 : The values of interterminal capacitance represent the average of measurements for two elements.

*2 : 1MHz signal : 20mVrms.

* : SVC385 are classified by C_{1V} as right :

Rank	C _{1V} (pF)	
S	339 to 363	
T 357 to 381		

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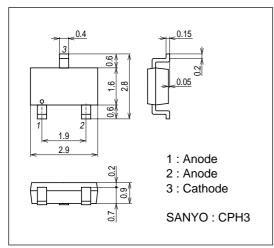
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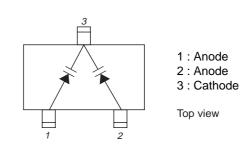
SVC385

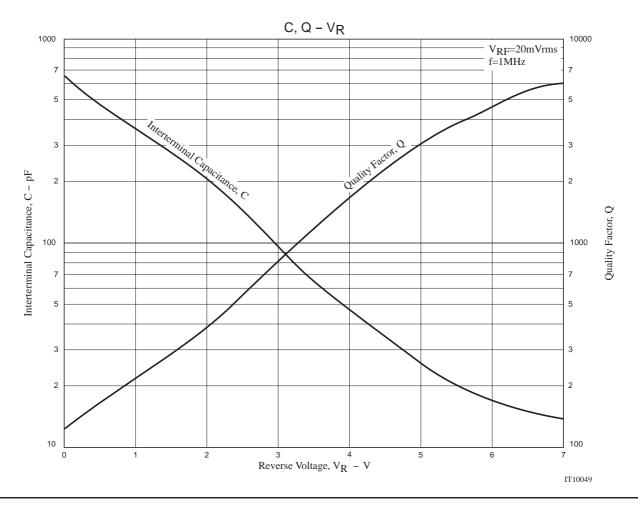
Electrical Connection

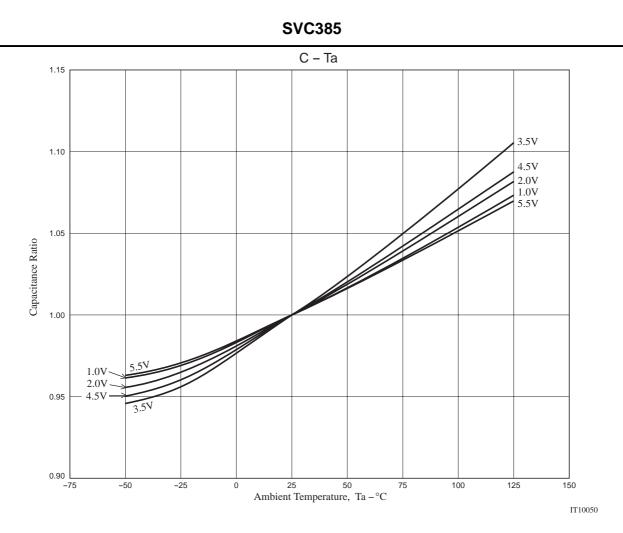
Package Dimensions

unit : mm 7015-002









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