

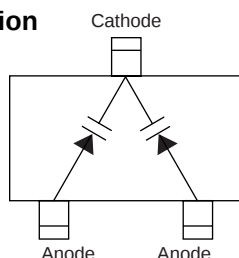
**SVC383**

AM Low Voltage Electronic Tuning Applications

Features

- Twin type varactor diode for low-voltage AM electronic tuning use.
- Low voltage (6.5V).
- High Q.
- Possible to offer the SVC383 devices in a tape reel packaging.
- Surface mount type.
- Small-sized package, permitting SVC383-applied sets to be compact and slim.

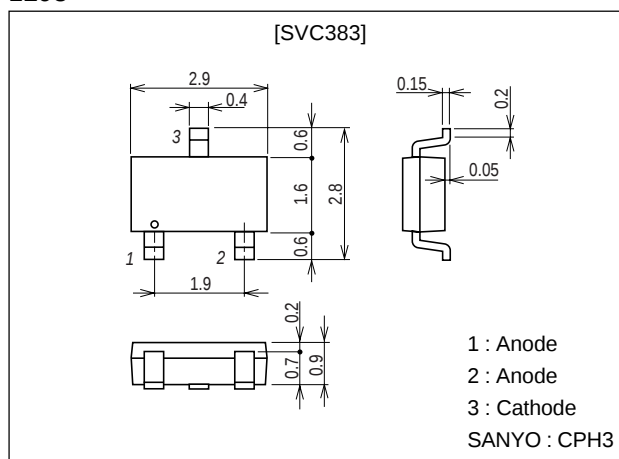
Electrical Connection



Package Dimensions

unit:mm

1293



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		33	V
Junction Temperature	T_j		125	°C
Storage Temperature	T_{stg}		-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	33			V
Reverse Current	I_R	$V_R=20V$			100	nA
Interterminal Capacitance *1	C_{1V}	$V_R=1V, f=1MHz$ *2	482*		540*	pF
	$C_{4.5V}$	$V_R=4.5V, f=1MHz$		64		pF
	$C_{6.5V}$	$V_R=6.5V, f=1MHz$	21		27	pF
Quality Factor	Q	$V_R=1V, f=1MHz$	200			
Capacitance Ratio	CR	$C_{1V}/C_{6.5V}$	17.5		24.5	
Matching Tolerance	ΔC_m	$(C_{max}-C_{min})/C_{min} \times 100$ (Between D1 and D2) $V_R=1V$ to 6.5V			2.0	%

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

*2 : 1MHz signal : 20mVrms

* : SVC383 are classified by C_{1V} as right :

Rank	$C_{1V}(pF)$
S	482 to 515
T	505 to 540

Marking : V3
Capacitance rank : S, T

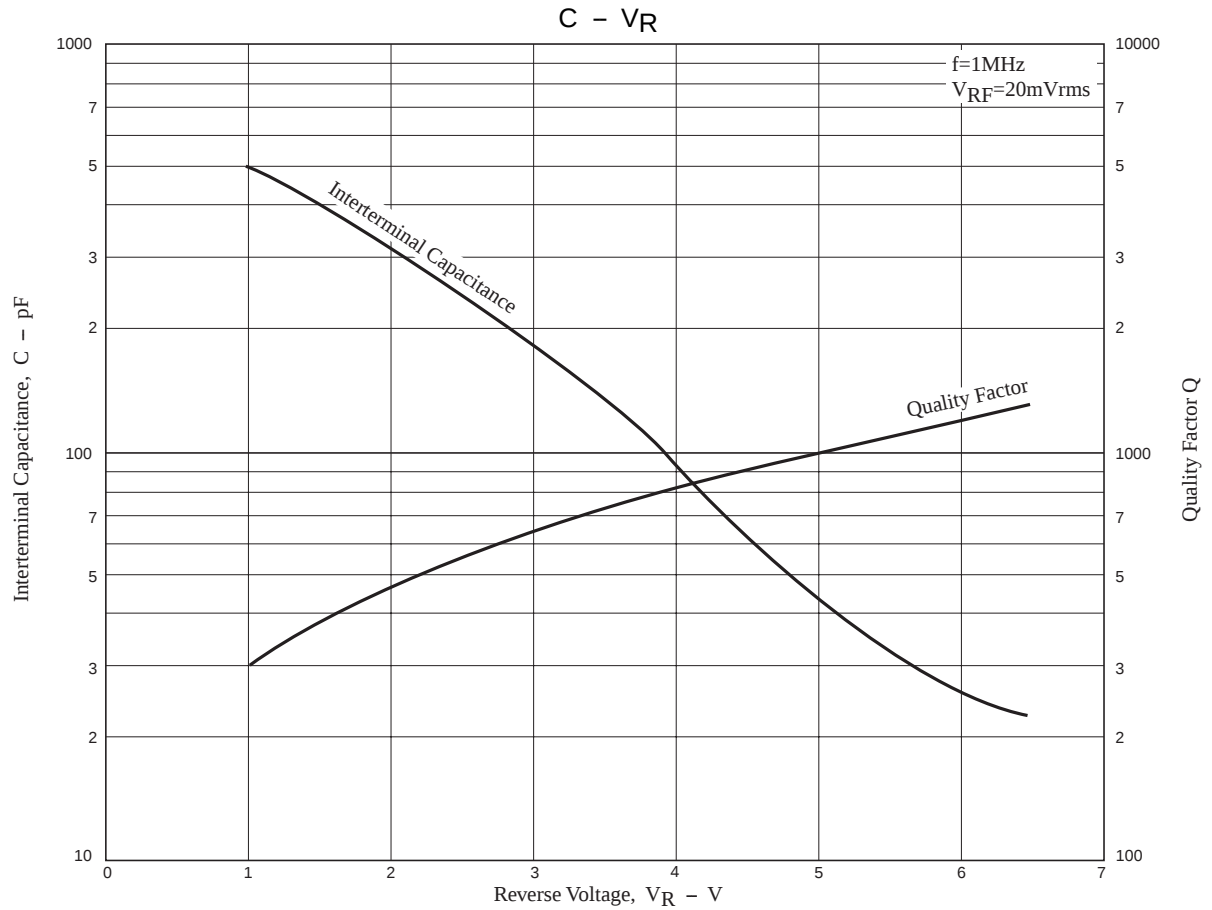
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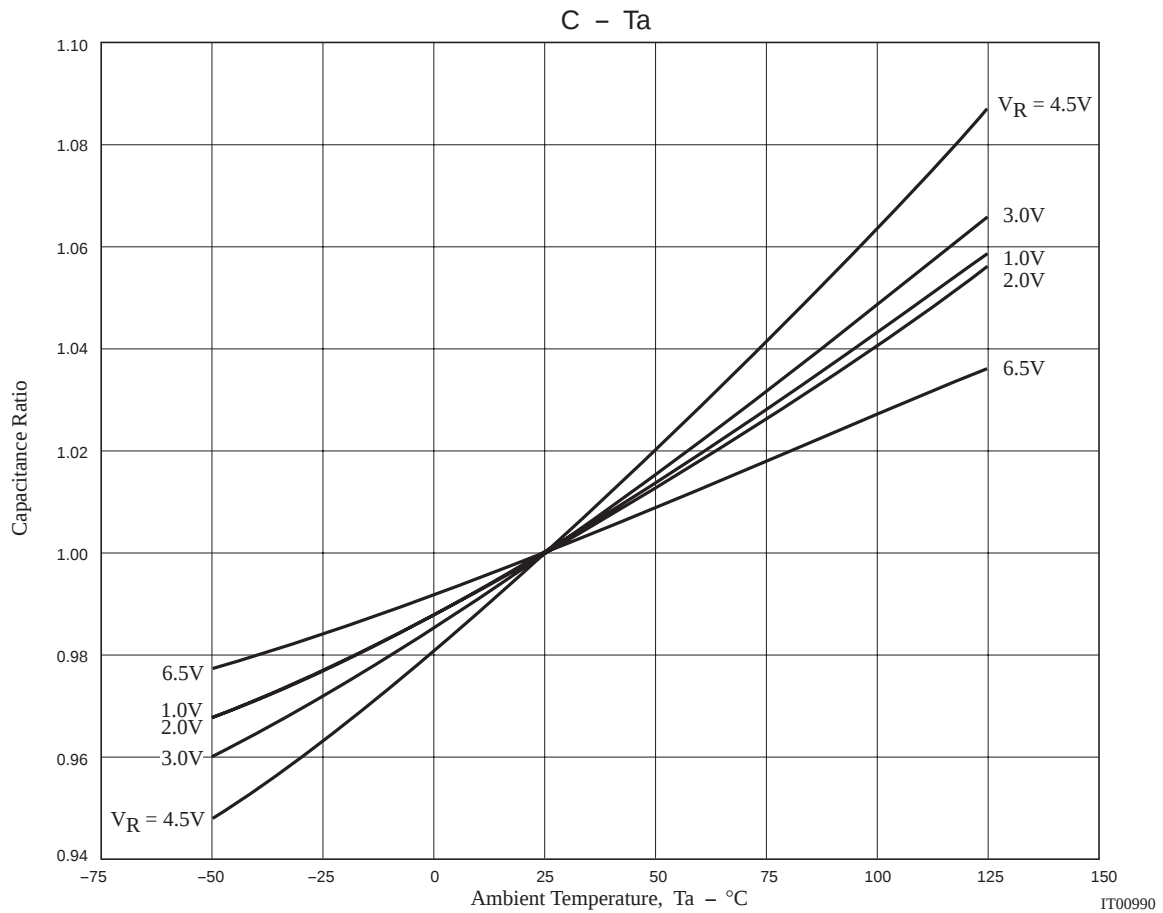
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SVC383



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IT00990

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