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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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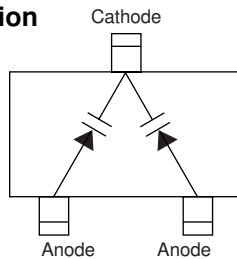
SVC383

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.

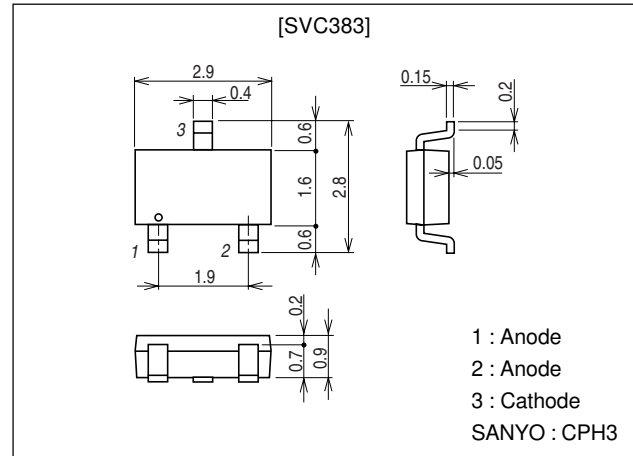
Electrical Connection



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

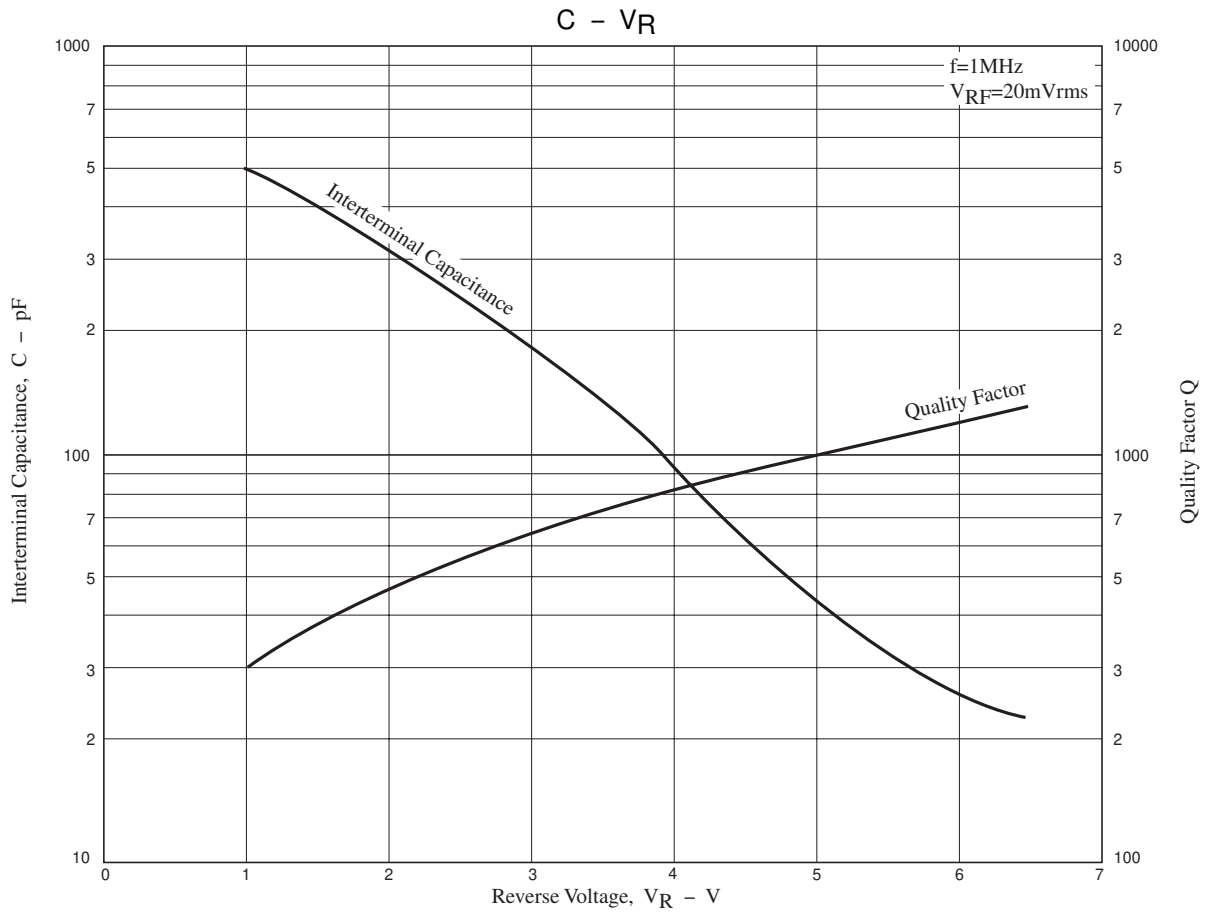
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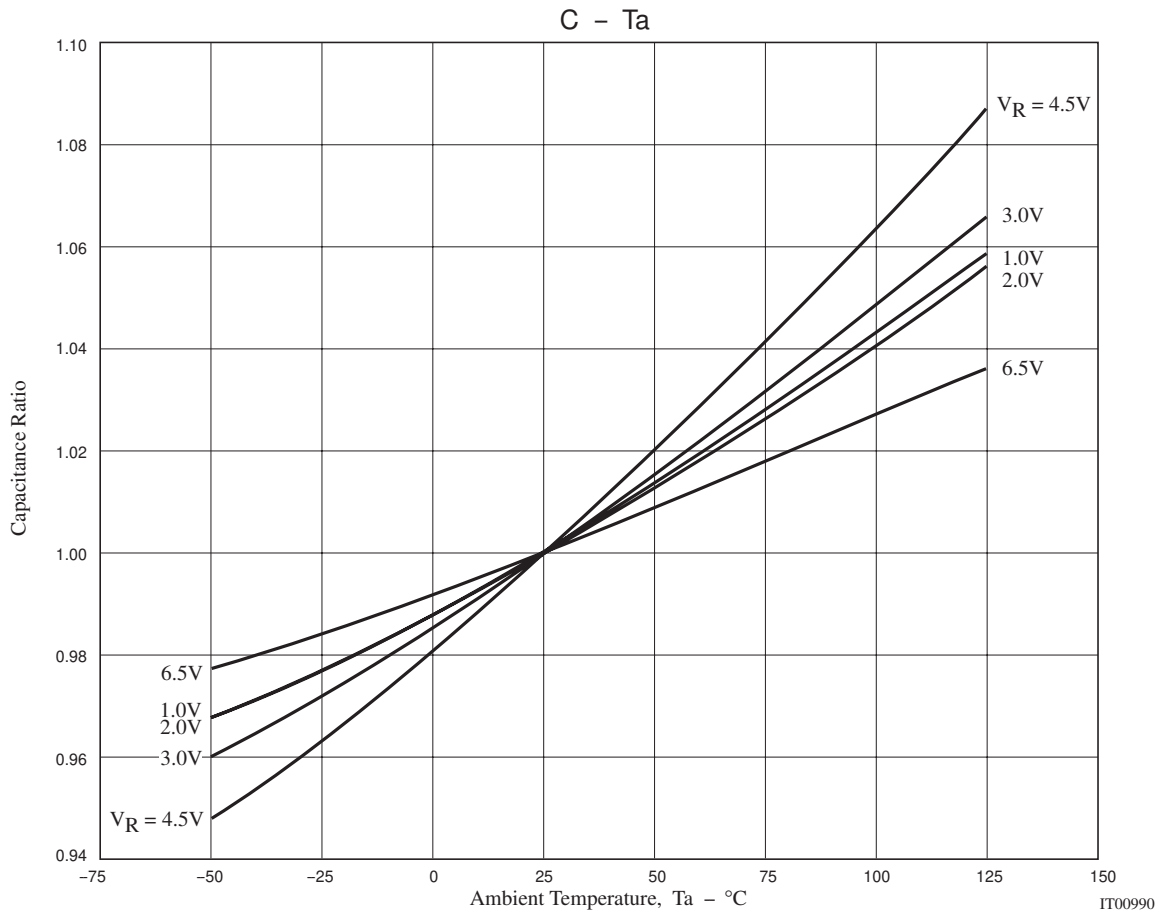
SANYO Electric Co.,Ltd. Semiconductor Company

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SVC383



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IT00990

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