



SVC386 — AM Low Voltage Electronic Tuning Applications

Diffused Junction Type Silicon Composite Varactor

Features

- Twin type varactor diode for low-voltage AM electronic tuning use.
- Low voltage (5.5V).
- High Q.

Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_J		150	°C
Storage Temperature	T_{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	I_R	$V_R=9V$			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	ΔC_m	$(C_{max}-C_{min}) / C_{min} \times 100$ (Between D1 and D2) $V_R=1$ to 5.5V			2.0	%

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

*2 : 1MHz signal : 20mVrms.

* : SVC386 are classified by C_{1V} as right :

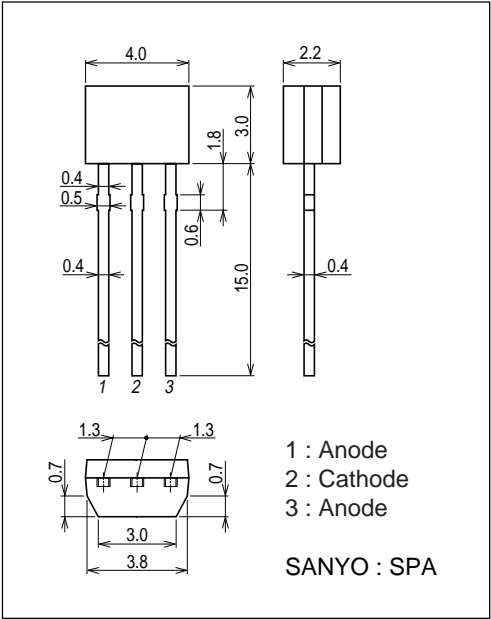
Rank	$C_{1V}(pF)$
S	339 to 363
T	357 to 381

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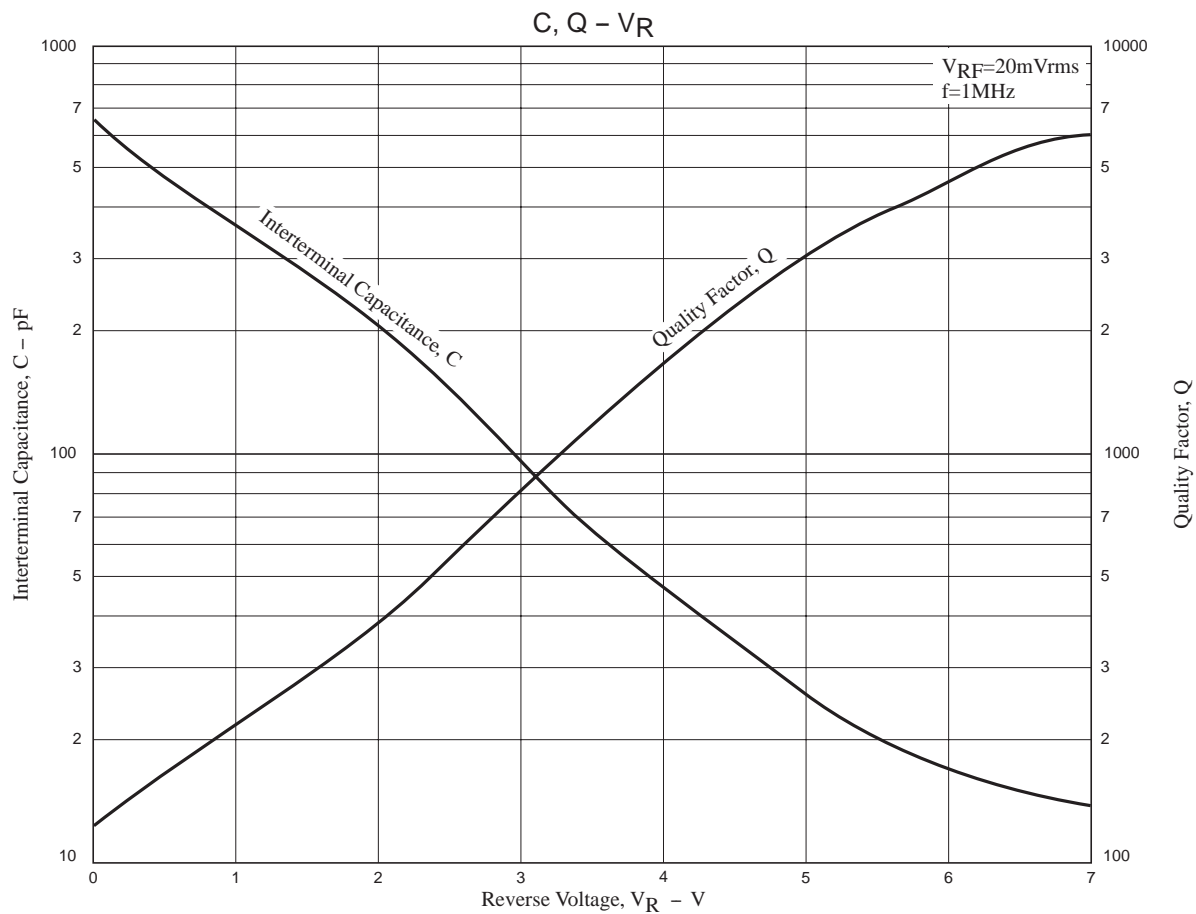
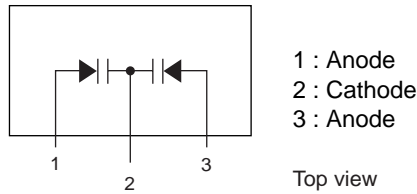
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Package Dimensions

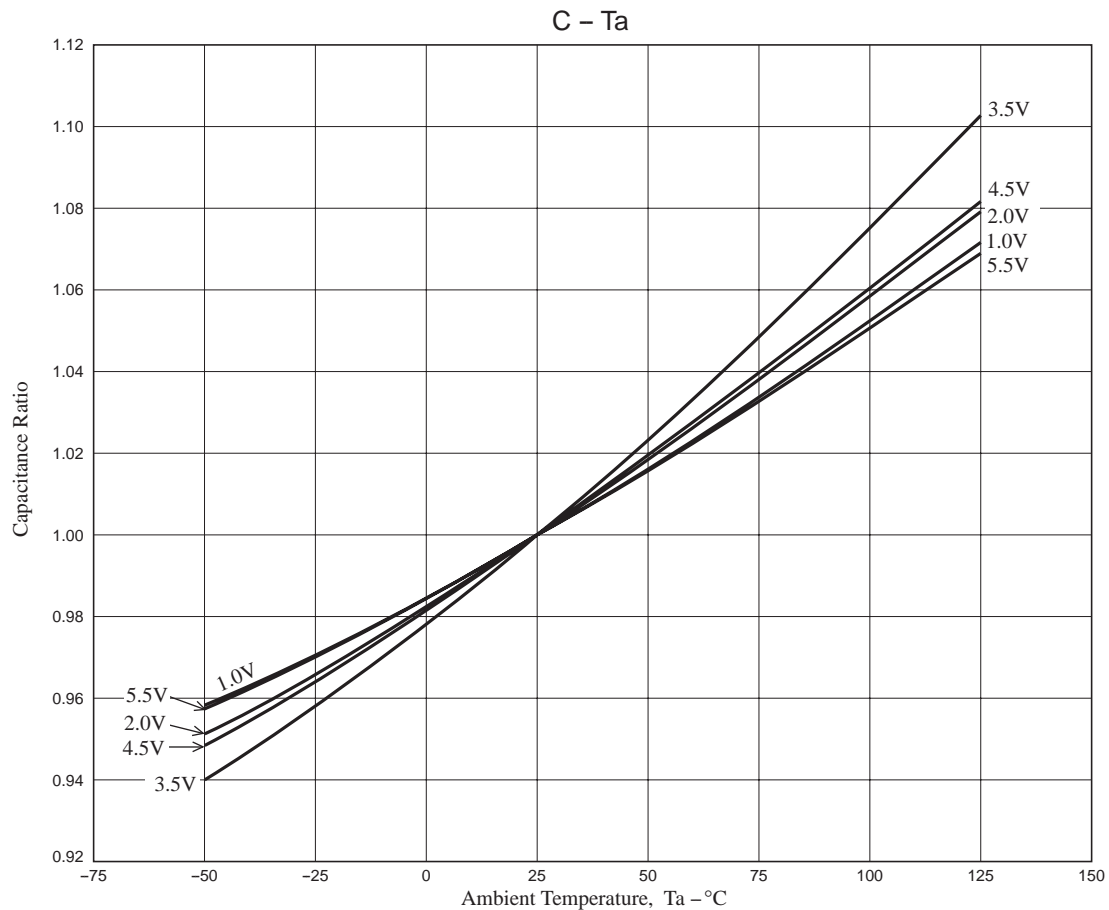
unit : mm
7524-001



Electrical Connection



IT10049



IT10051

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