



SVC251SPA

Diffused Junction Type Silicon Diode

Varactor Diode for AFC, CB PLL

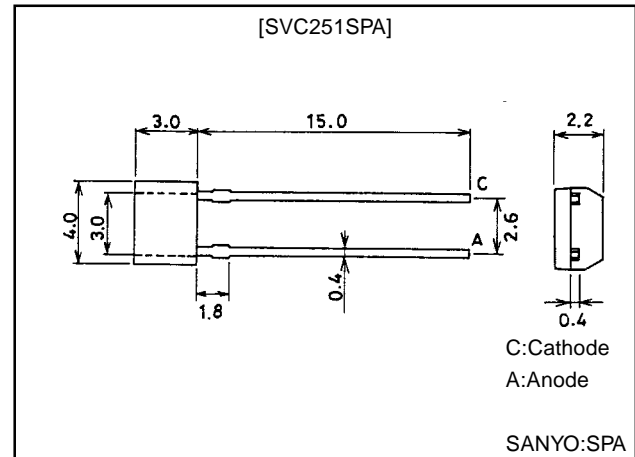
Features

- The SVC251SPA is a varactor diode of hyper abrupt junction structure fabricated with ion implantation technology. It is intended for use in AFC, CB PLL VCO circuitry.
- High Q
- High capacitance ratio

Package Dimensions

unit:mm

1184



Specifications

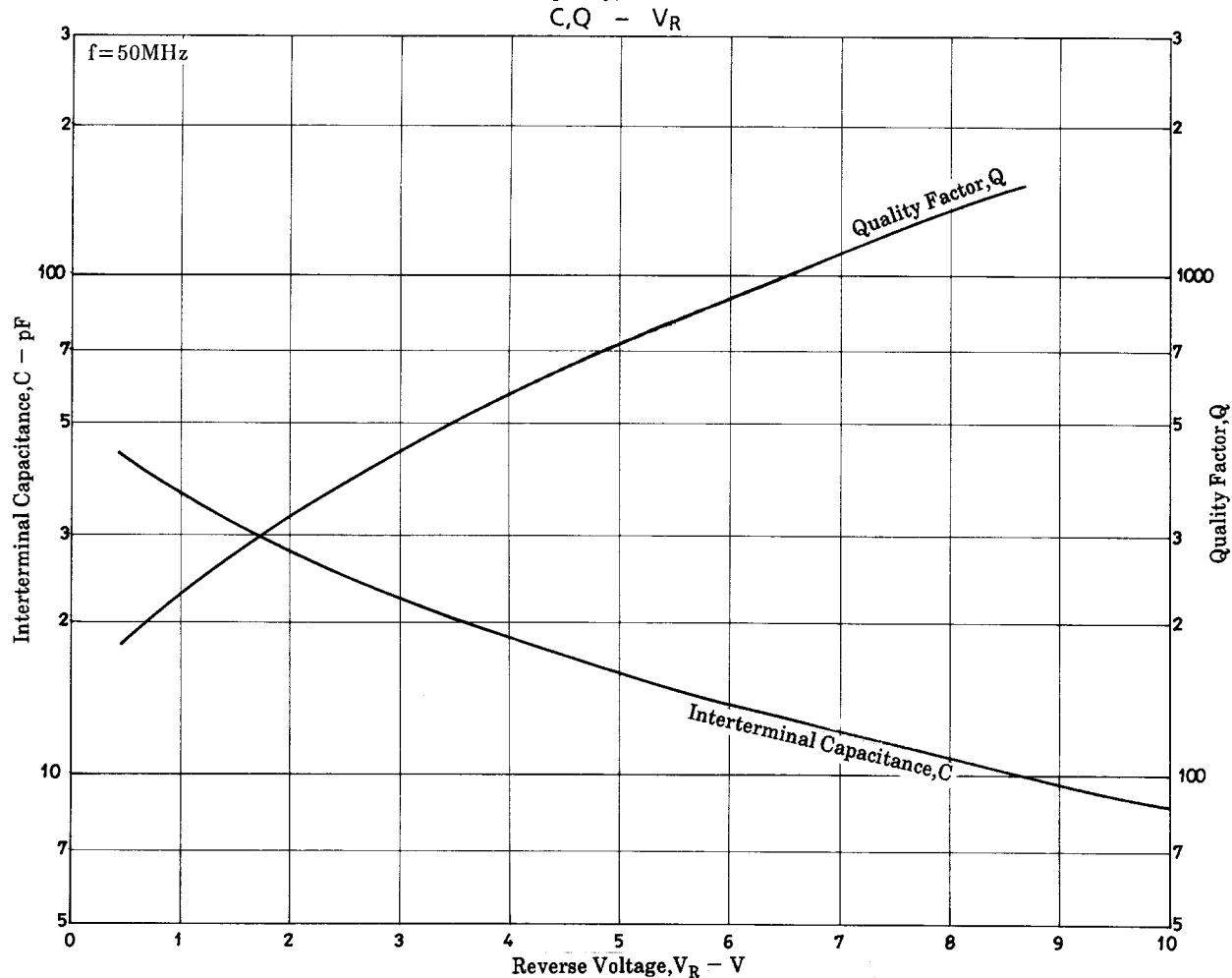
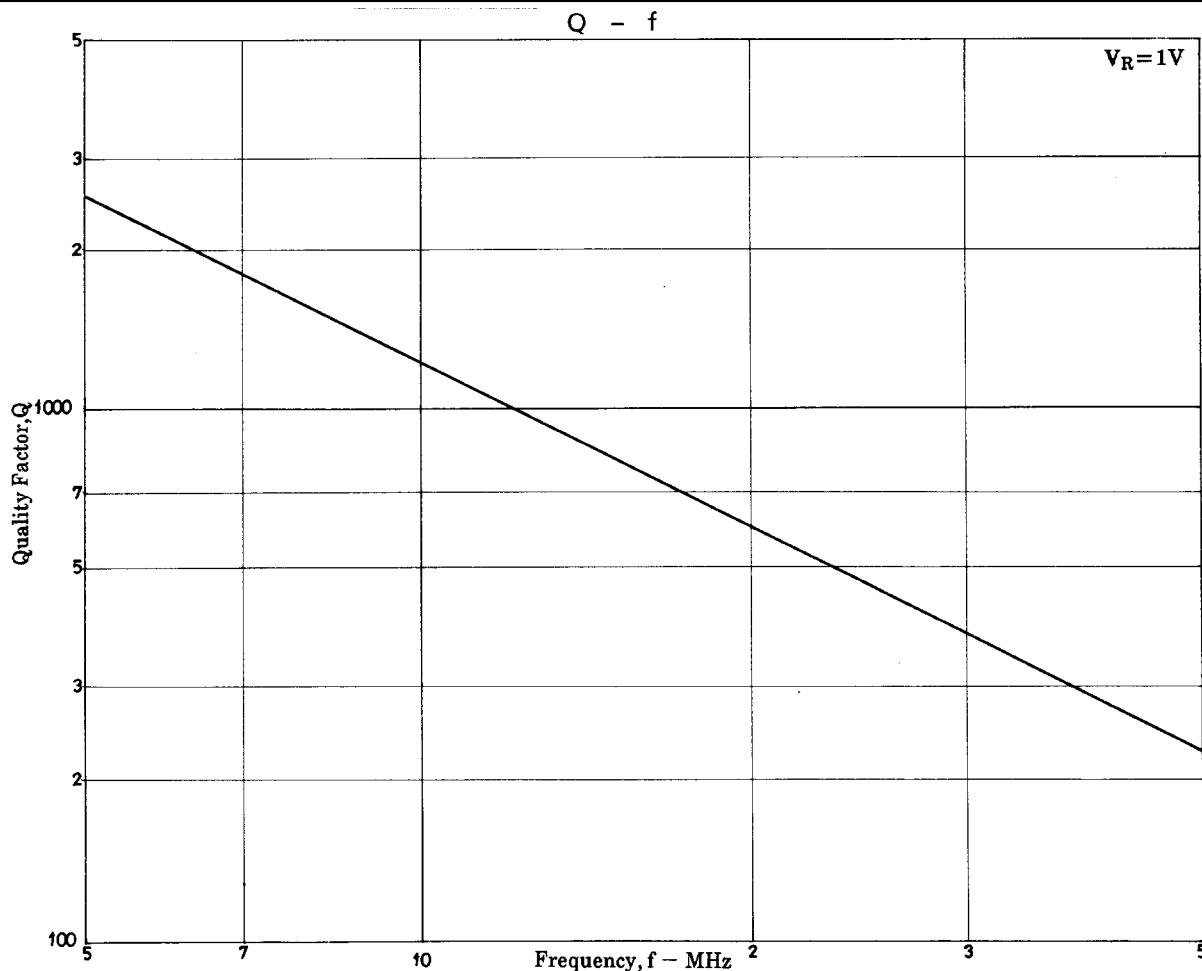
Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		12	V
Junction Temperature	T_J		100	°C
Storage Temperature	T_{stg}		-55 to +100	°C

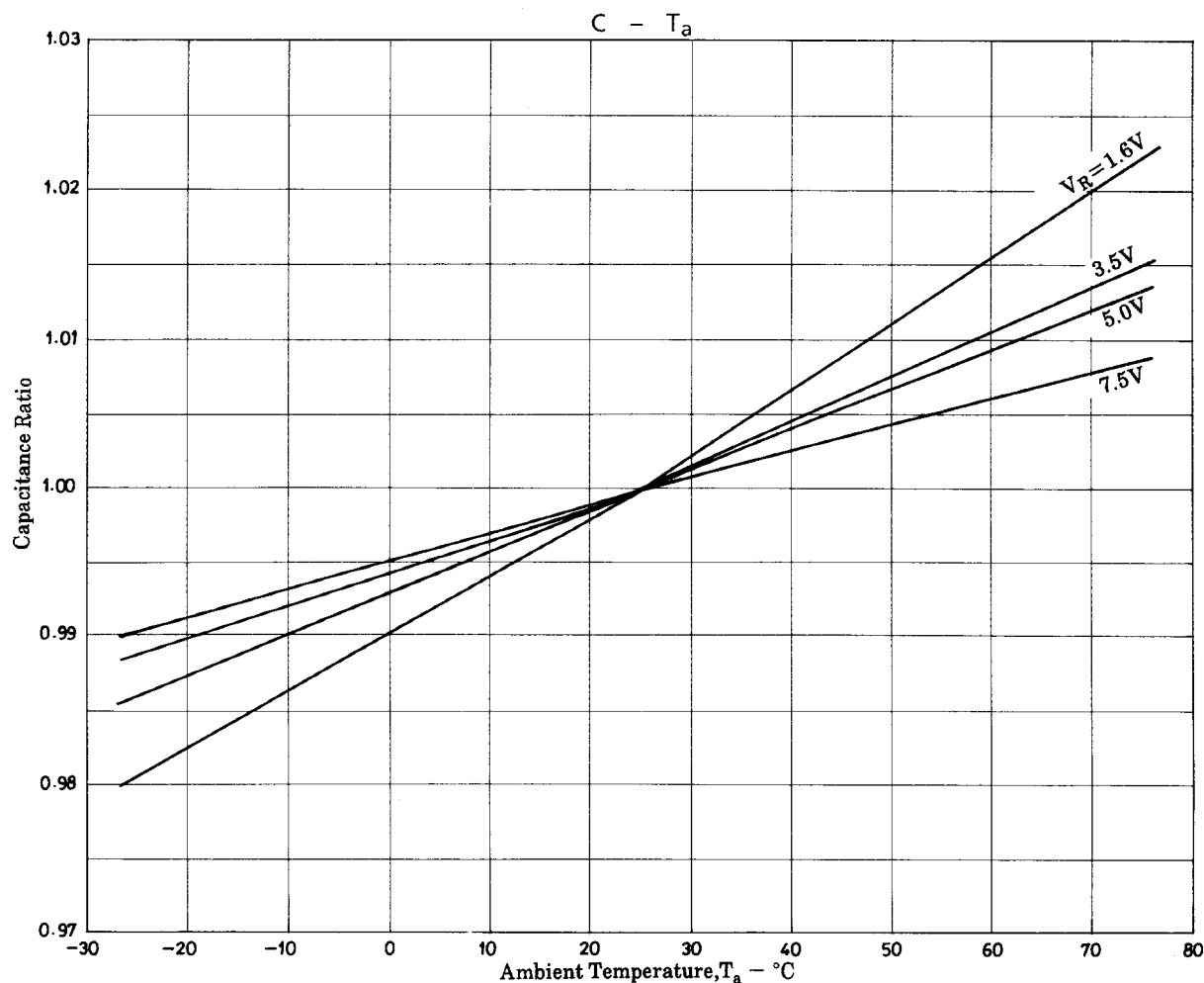
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	12			V
Reverse Current	I_R	$V_R=9V$			200	nA
Interterminal Capacitance	$C_{1.6V}$	$V_R=1.6V, f=1MHz$	23		38	pF
	$C_{5.0V}$	$V_R=5.0V, f=1MHz$	11		19	pF
Capacitance Ratio	CR	$C_{1.6V}/C_{5.0V}$	1.7			
Series Resistance	r_s	$f=50MHz, V_R=1V$			0.6	Ω

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