



# SVC251SPA

Diffused Junction Type Silicon Diode

## Varactor Diode for AFC, CB PLL

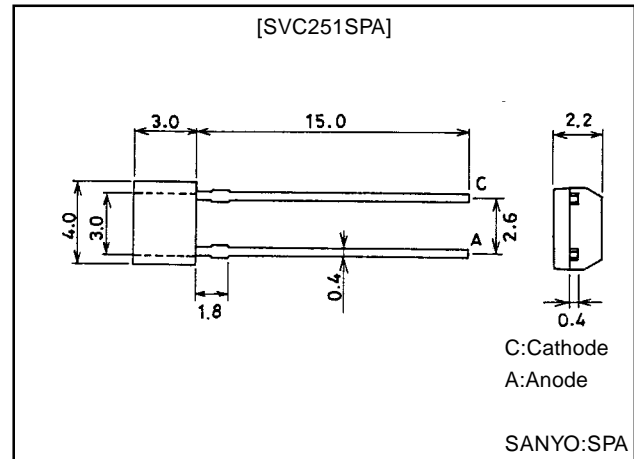
### Features

- 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

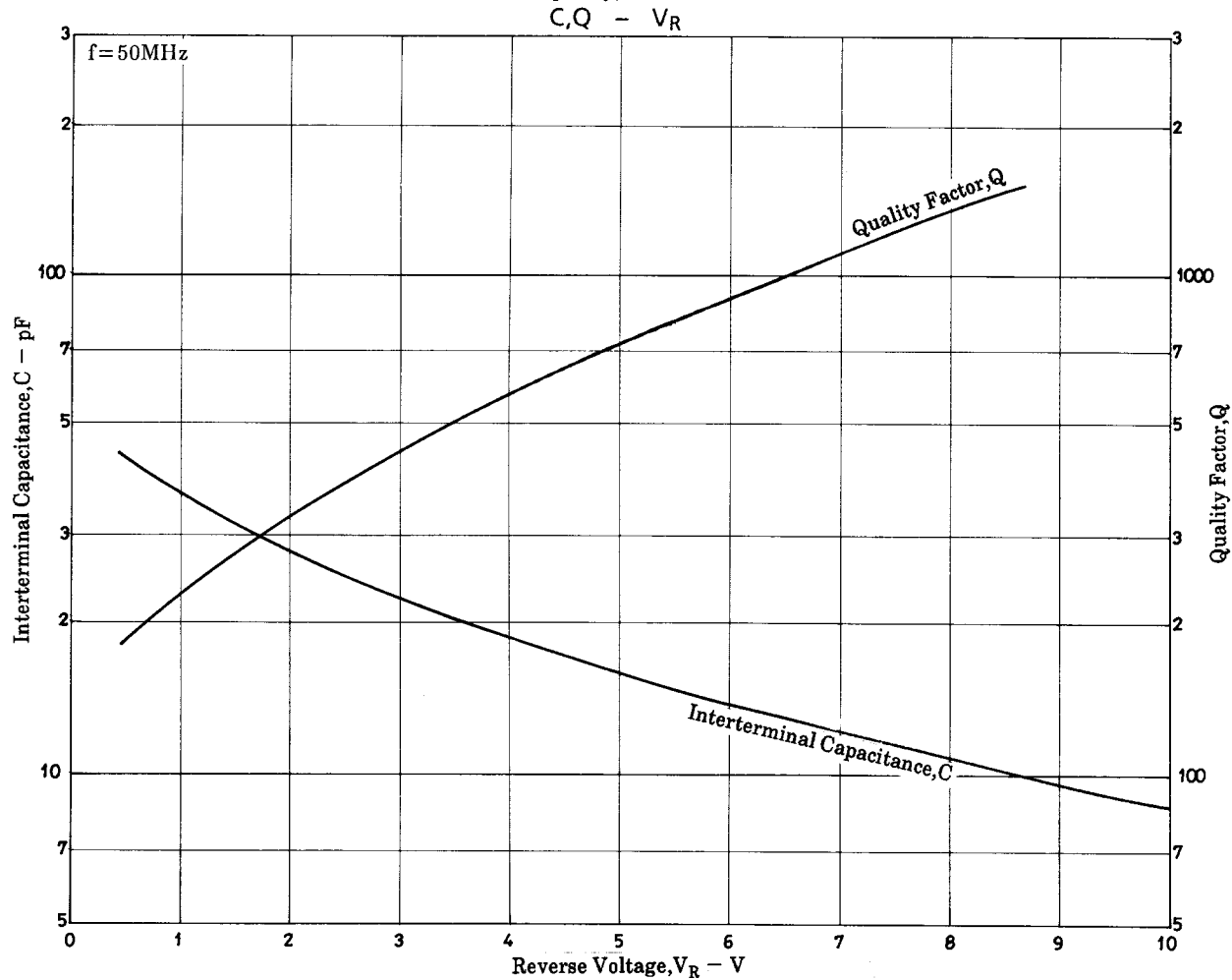
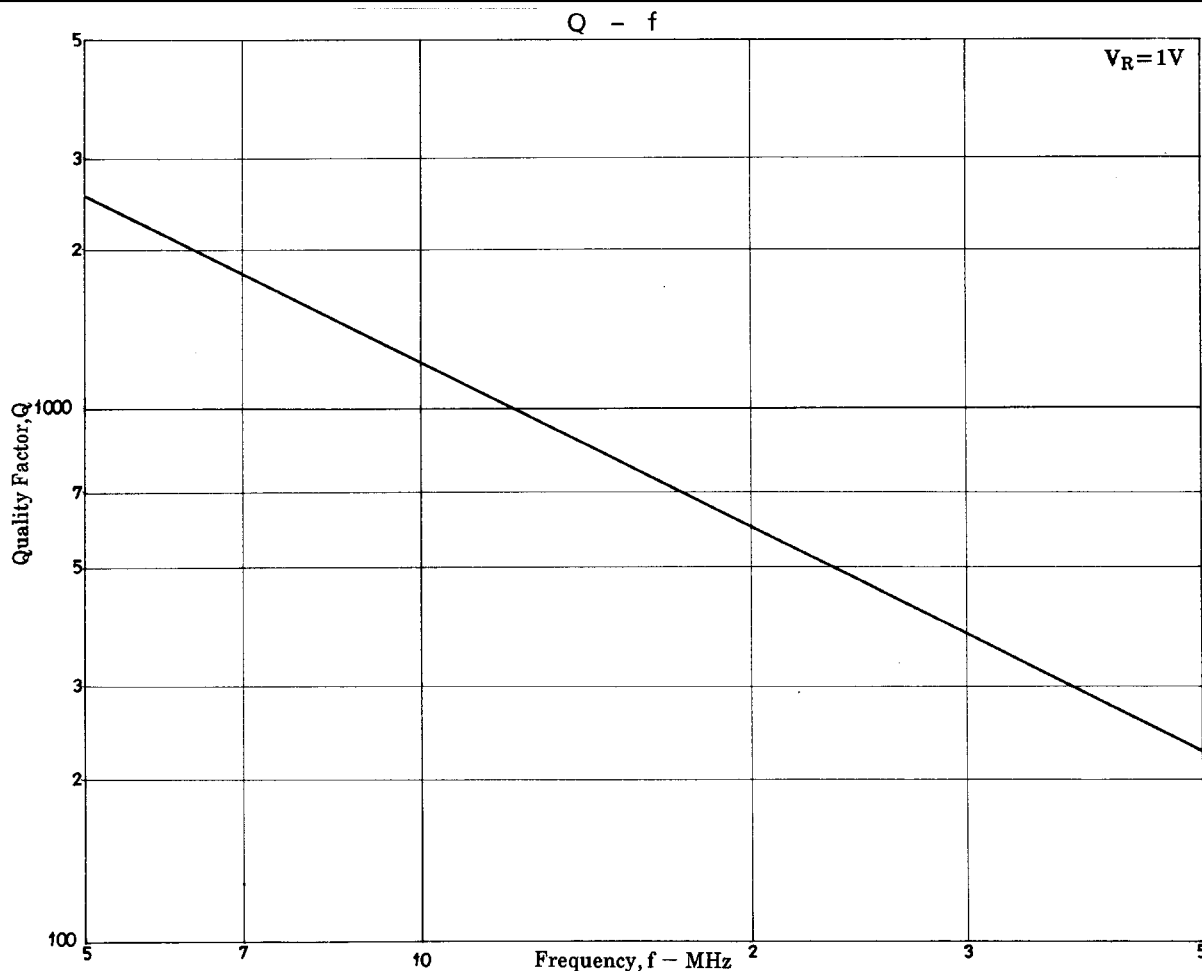
#### Absolute Maximum Ratings at Ta = 25°C

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

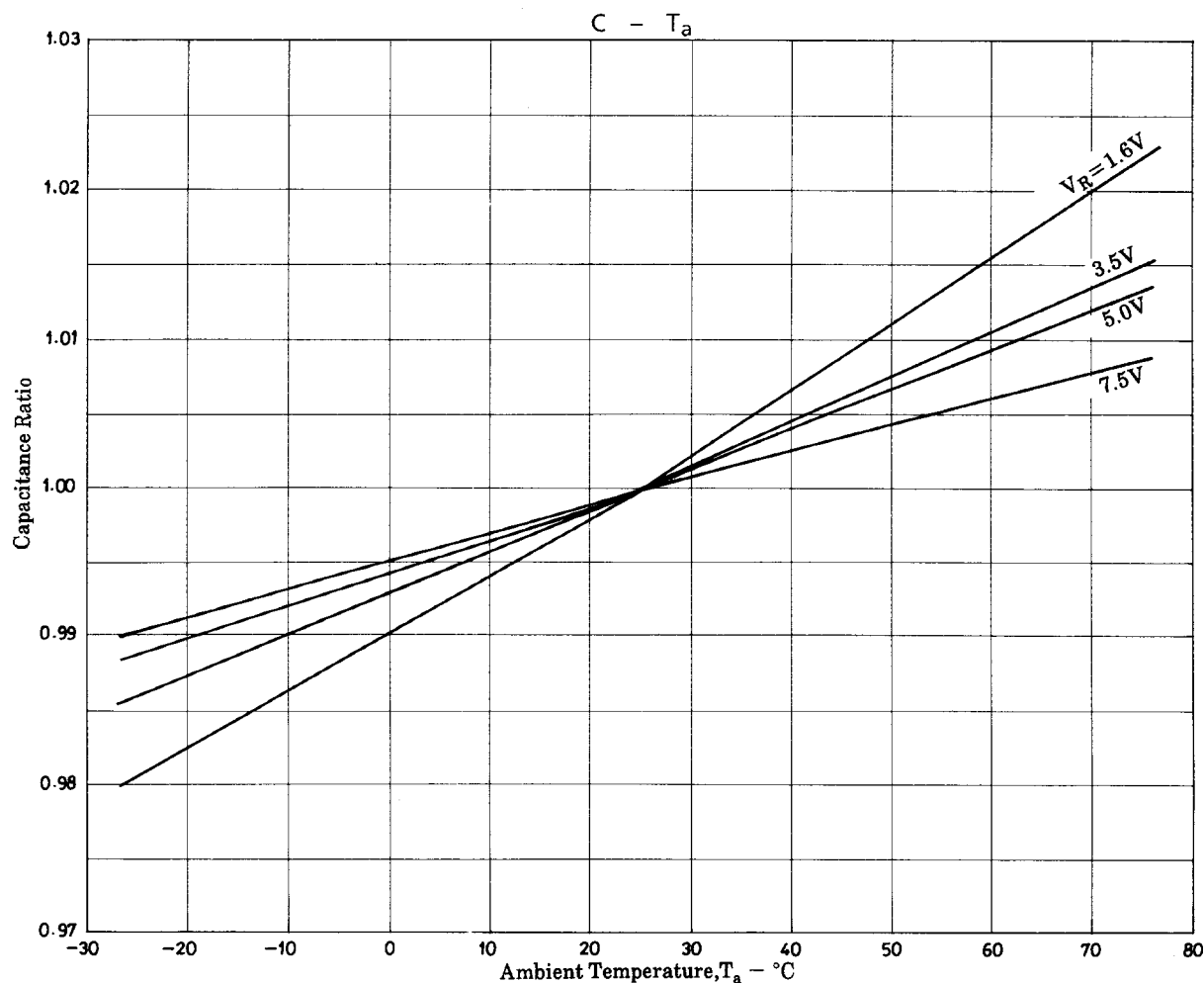
#### Electrical Characteristics at Ta = 25°C

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	$\Omega$

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