

**SVC252**

Silicon Diffused Junction Type

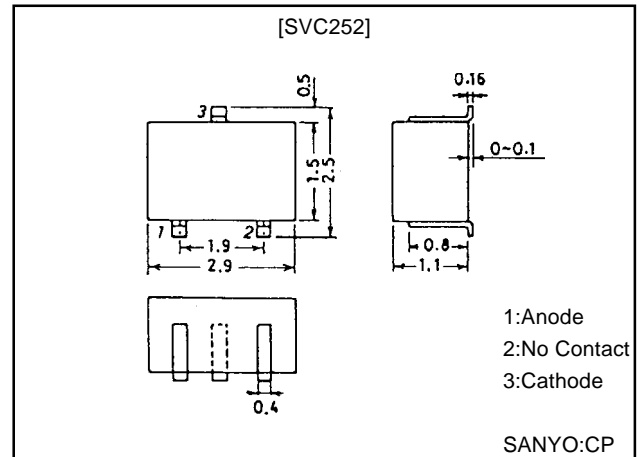
**Varactor Diode for AFC, CB PLL****Features**

- The SVC252 is a varactor diode designed for use in AFC and CB PLL's VCO.
- High Q.
- High capacitance ratio.
- Compact packaging supports more compact and slimmer SVC252-applied set designs.

**Package Dimensions**

unit:mm

1148A

**Specifications****Absolute Maximum Ratings at Ta = 25°C**

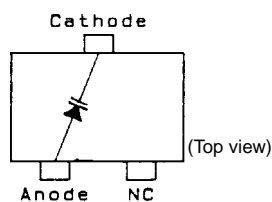
Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	$V_R$		16	V
Junction Temperature	$T_J$		125	°C
Storage Temperature	$T_{stg}$		-55 to +125	°C

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

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu A$	16			V
Reverse Current	$I_R$	$V_R=9V$			10	nA
Interterminal Capacitance	$C_{1.6V}$	$V_R=1.6V, f=1MHz^*$	23	31	38	pF
	$C_{5.0V}$	$V_R=5.0V, f=1MHz$	11	15	19	pF
Capacitance Ratio	CR	$C_{1.6V}/C_{5.0V}$	1.7	2.1	4.0	
Series Resistance	rs	$f=50MHz, V_R=1V$			0.6	$\Omega$

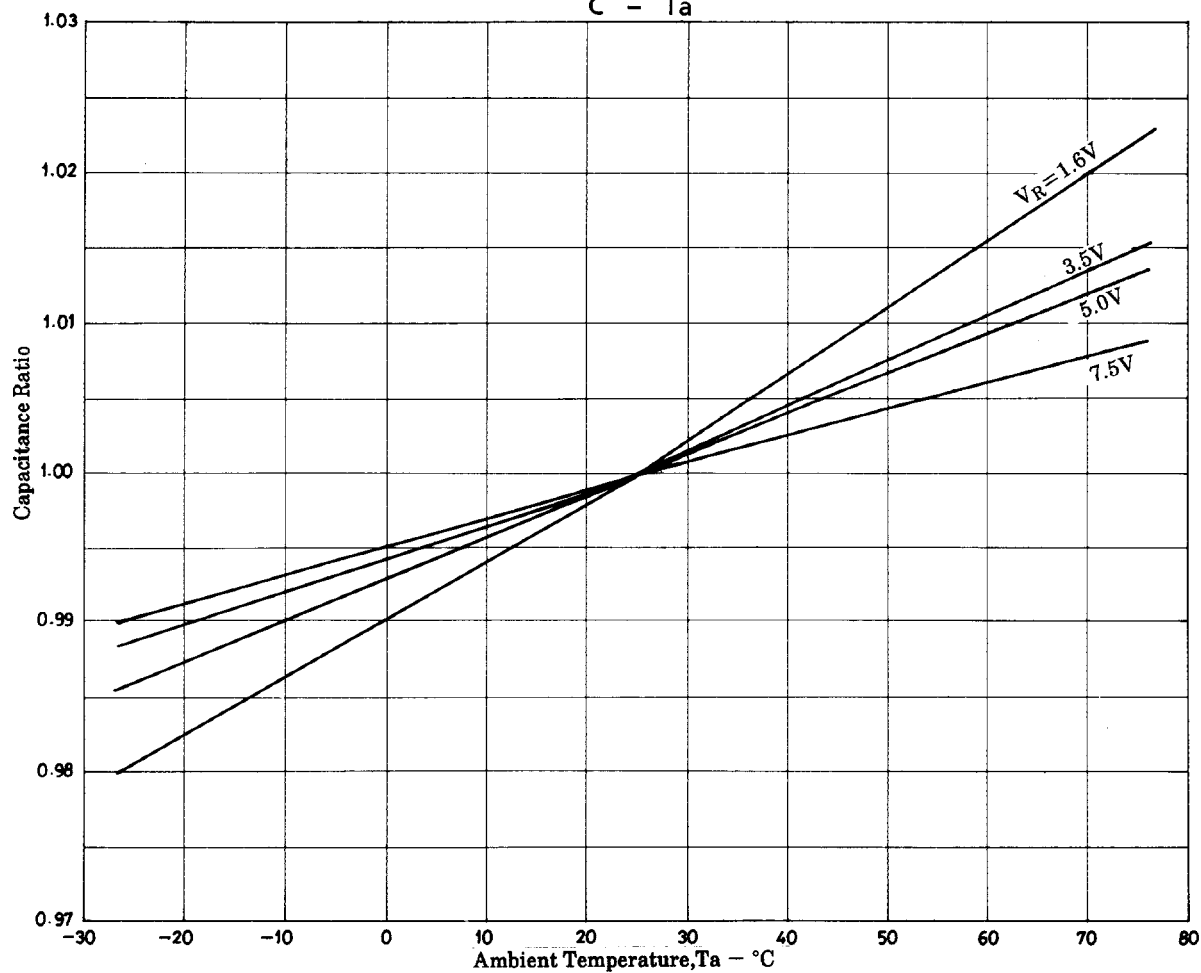
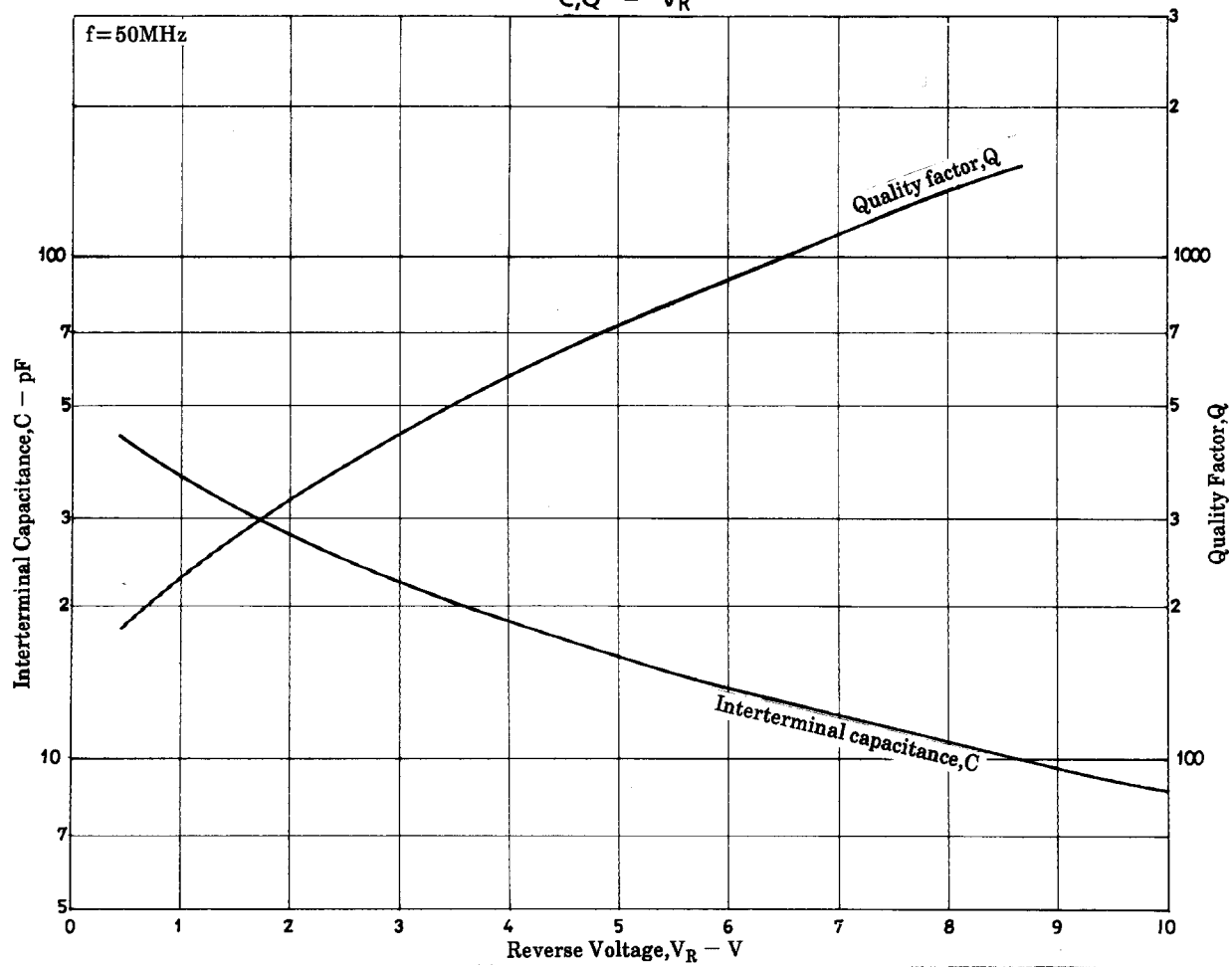
Note)\*:1MHz signal : 20m Vrms

- Marking : HV

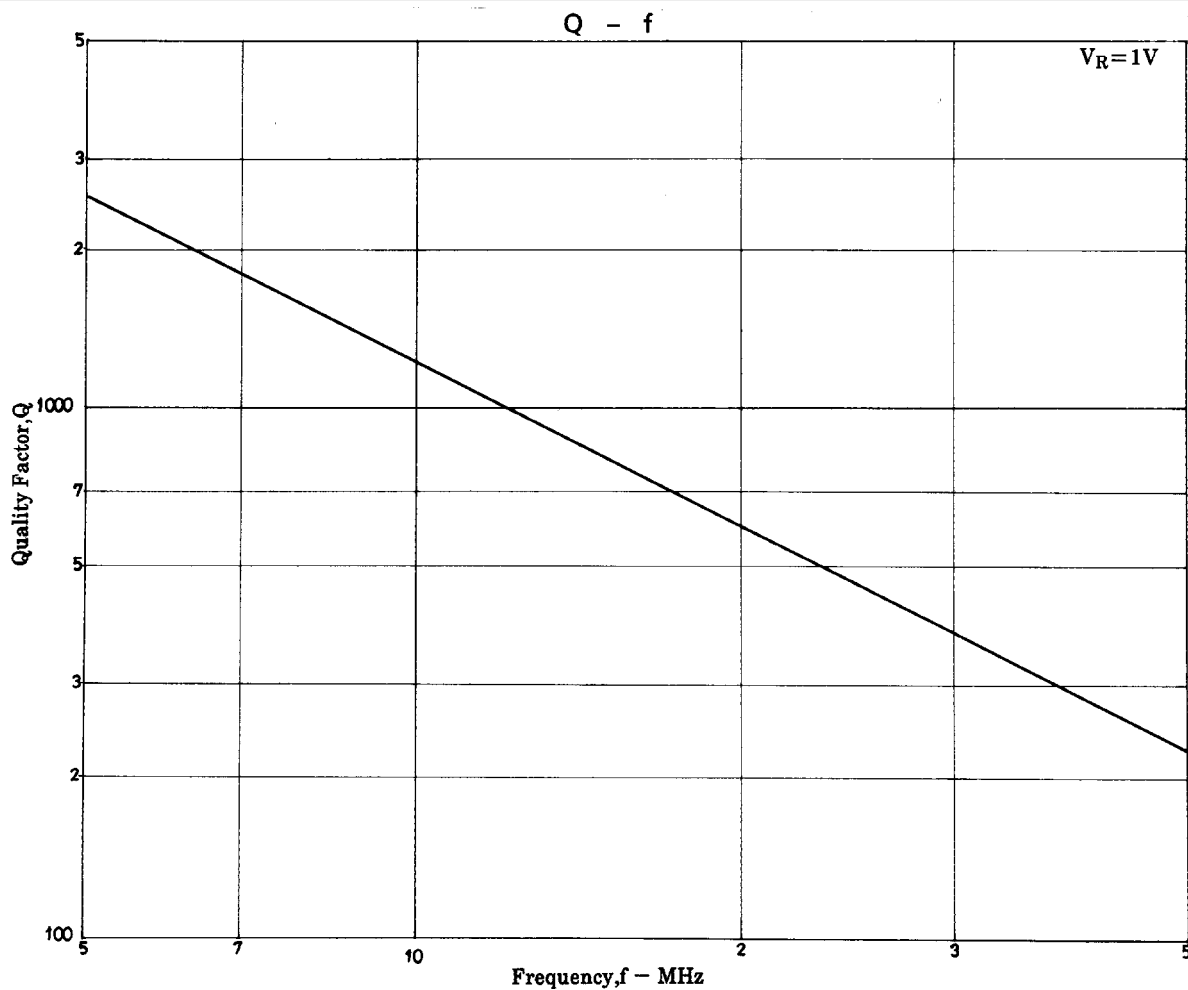
**Electrical Connection**

# SVC252

C, Q -  $V_R$



# SVC252



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