



# SVC252

Silicon Diffused Junction Type

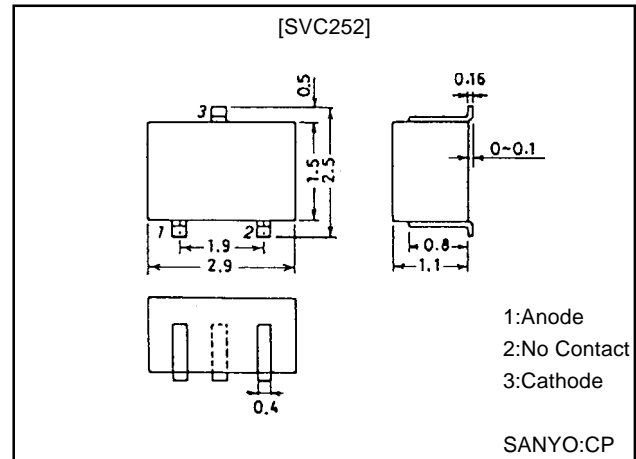
## Varactor Diode for AFC, CB PLL

### 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

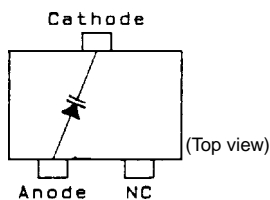
#### Electrical Characteristics at Ta = 25°C

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

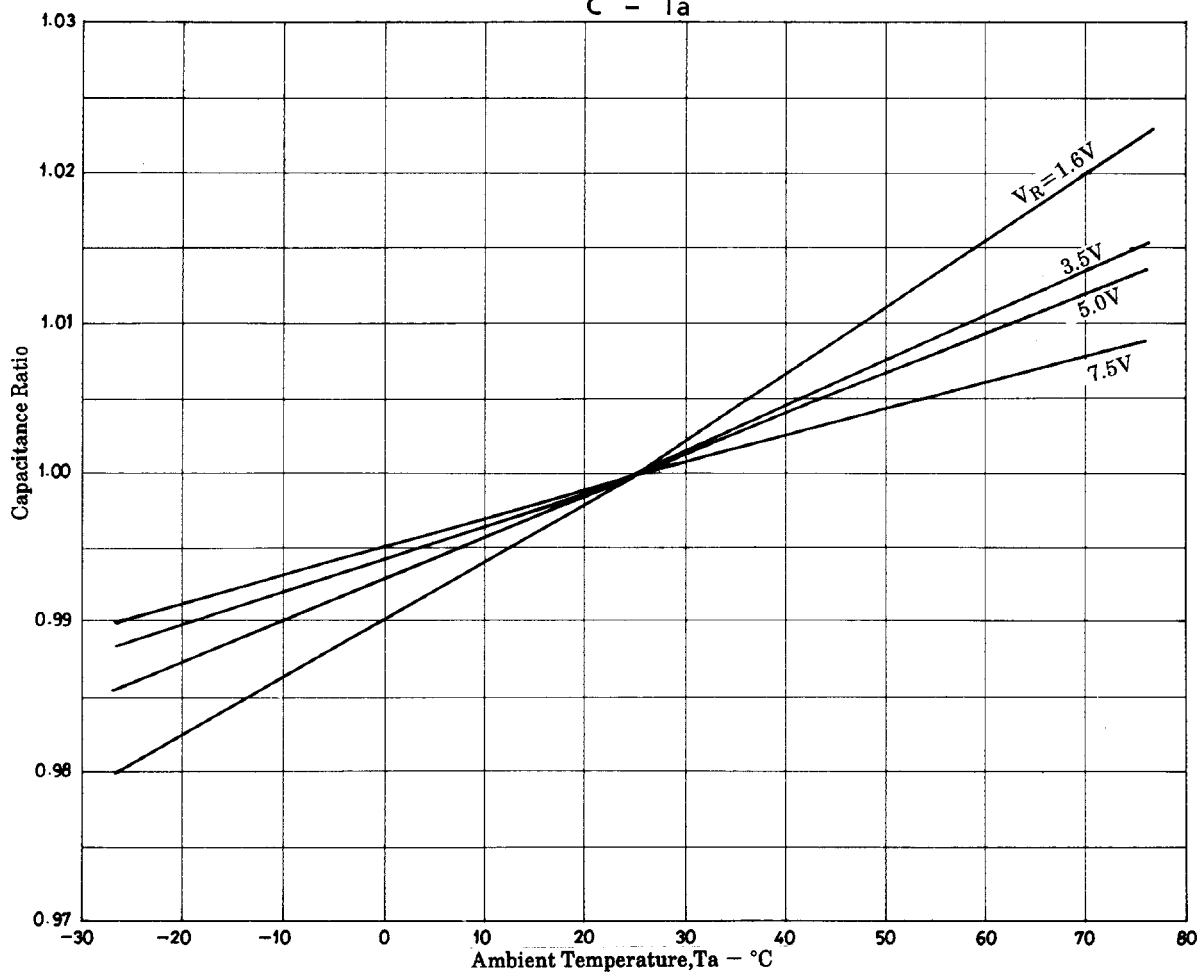
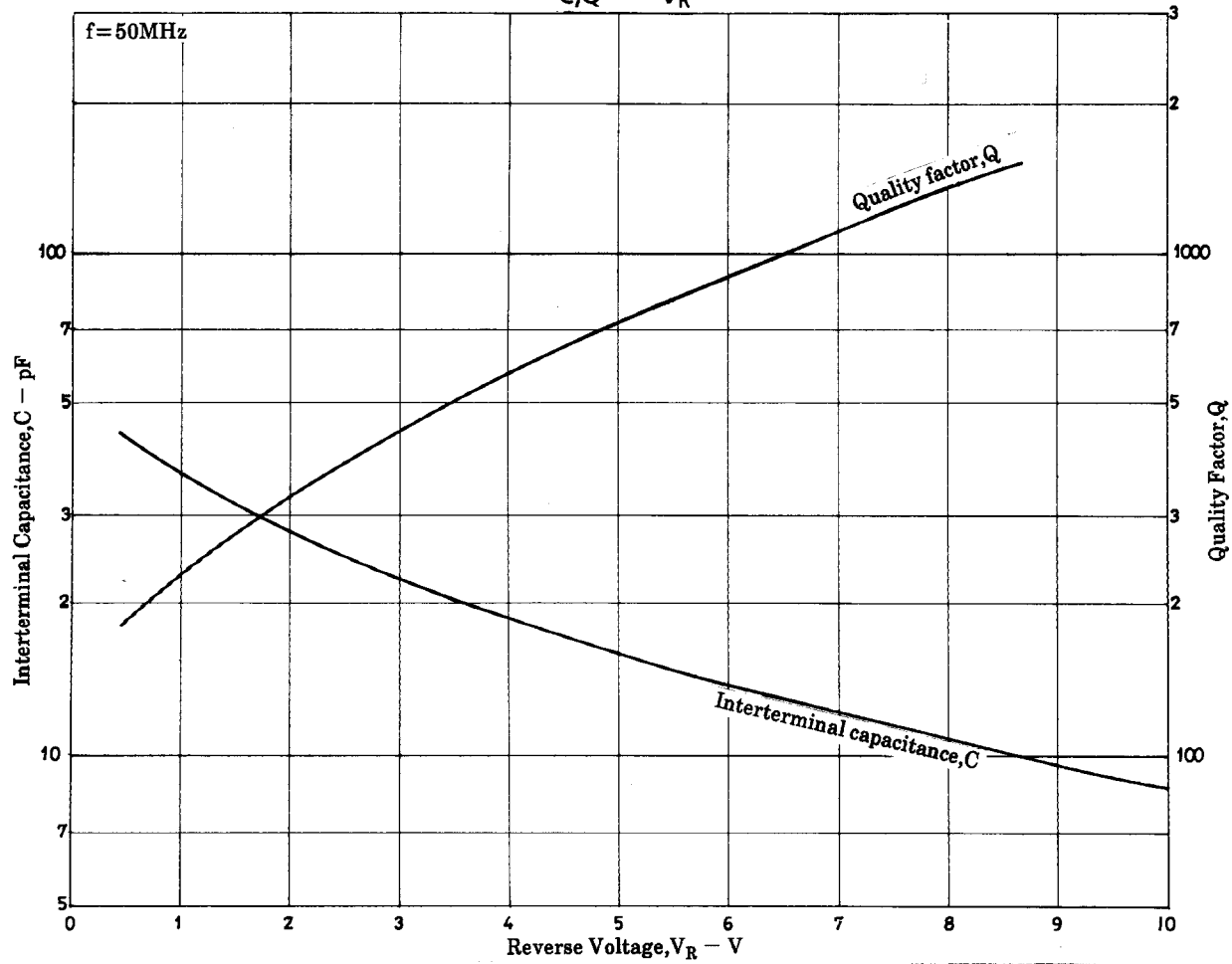
· Marking : HV

### Electrical Connection

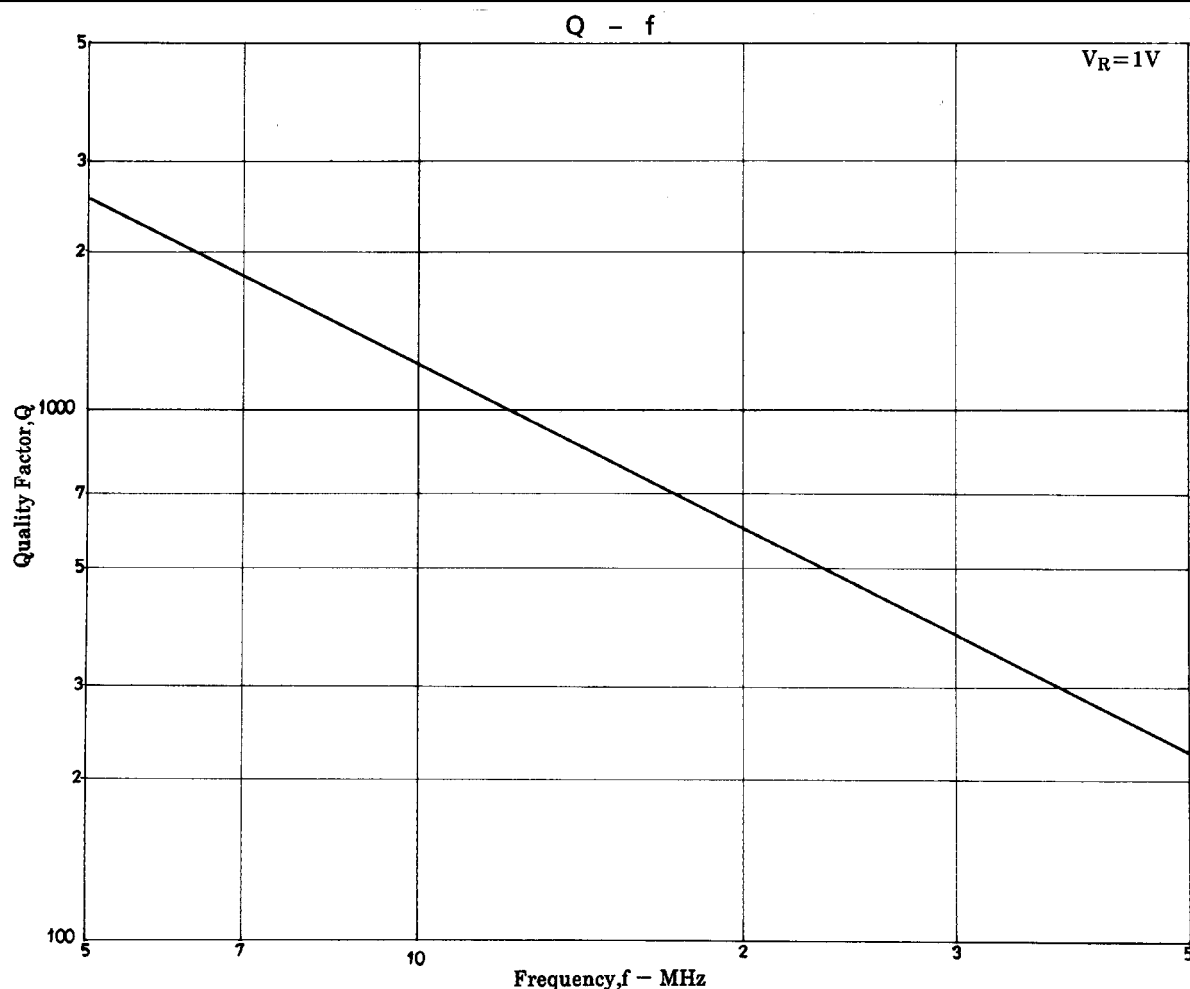


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C, Q -  $V_R$



## SVC252



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