



SVC253

Silicon Diffused Junction Type

Varactor Diode for AM Up-Conversion

Applications

- FM band VCO, PLL.

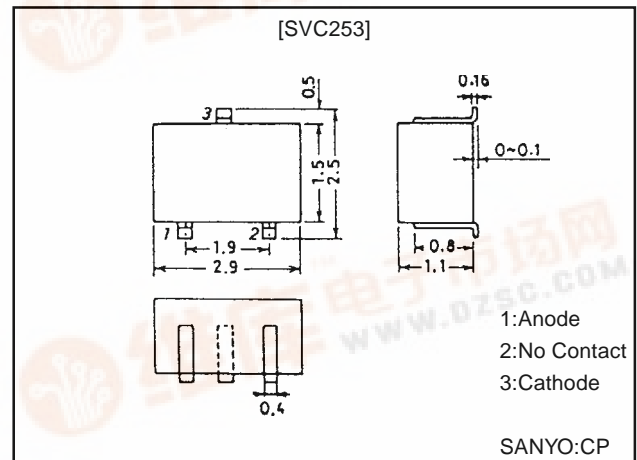
Features

- High capacitance ratio.
- Compact packaging supports more compact and slimmer SVC253-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

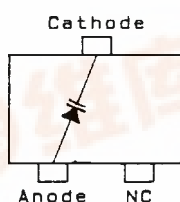
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu A$	16			V
Reverse Current	I_R	$V_R=10V$			50	nA
Interterminal Capacitance	$C_{1.0V}$	$V_R=1.0V, f=1MHz^*$	51.0		76.0	pF
	$C_{6.0V}$	$V_R=6.0V, f=1MHz$	16.0		29.0	pF
	$C_{9.0V}$	$V_R=9.0V, f=1MHz$	9.5		15.5	pF
Capacitance Ratio	CR	$C_{1.0V}/C_{9.0V}$	4.6		5.8	
Quality Factor	Q	$V_R=3.0V, f=100MHz$	60			

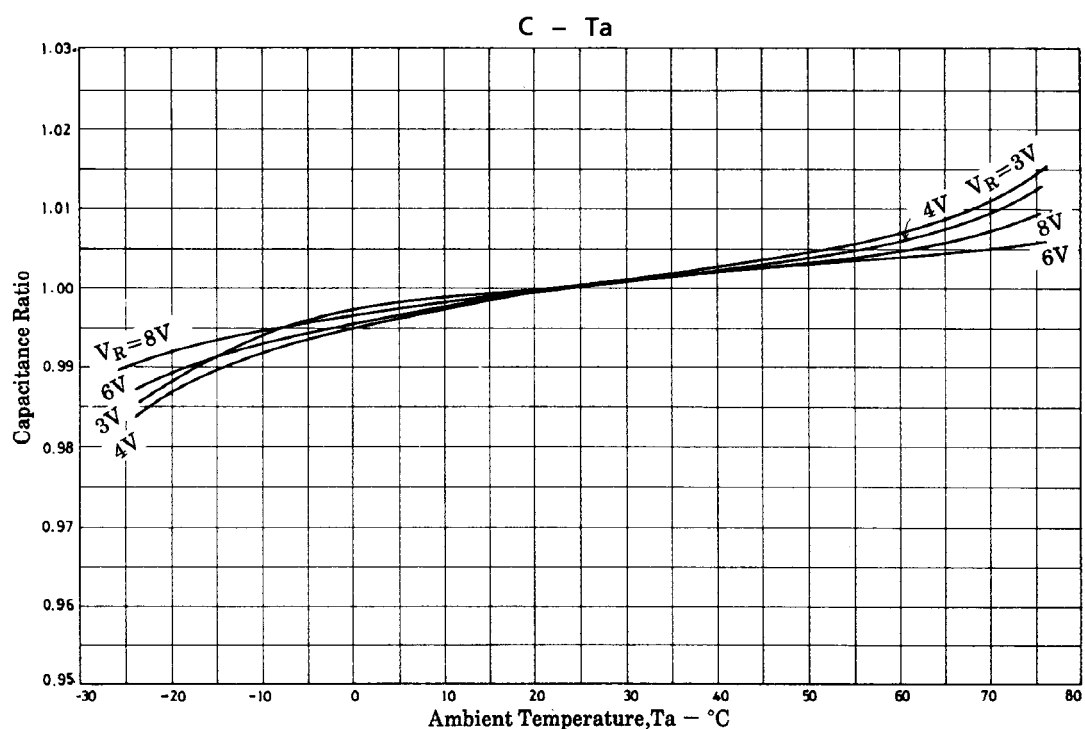
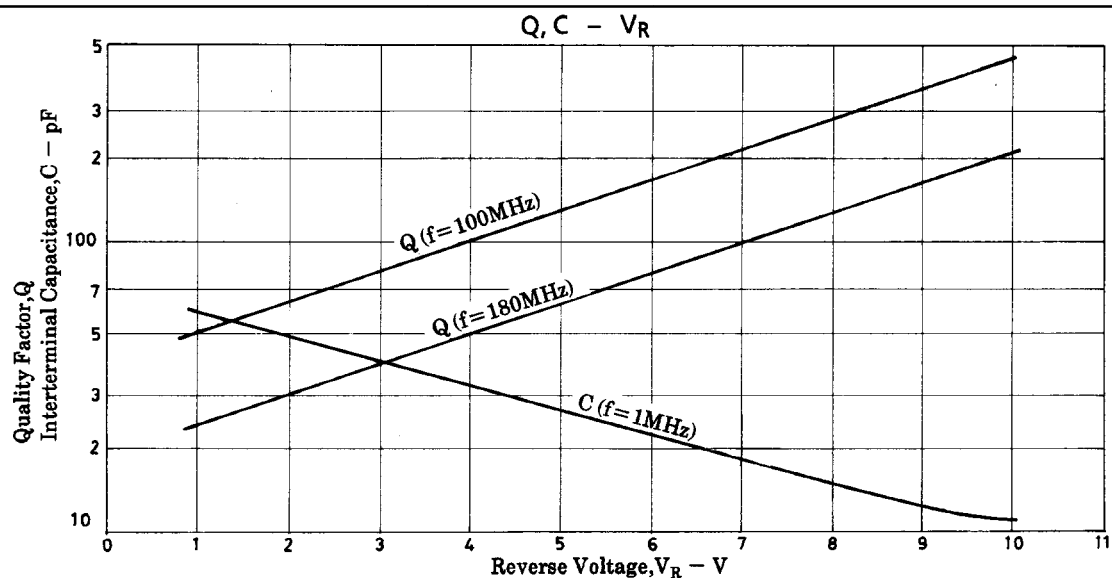
Note)*:1MHz signal:20mVrms

- Marking:NV

Electrical Connection



SVC253



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