

SVC253

Silicon Diffused Junction Type

Varactor Diode for AM Up-Conversion

Applications

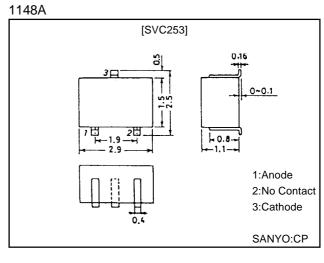
· FM band VCO, PLL.

Features

- · High capacitance ratio.
- Compact packaging supports more compact and slimmer SVC253-applied set designs.

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	VR		16	V
Junction Temperature	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

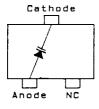
Electrical Characteristics at Ta = 25°C

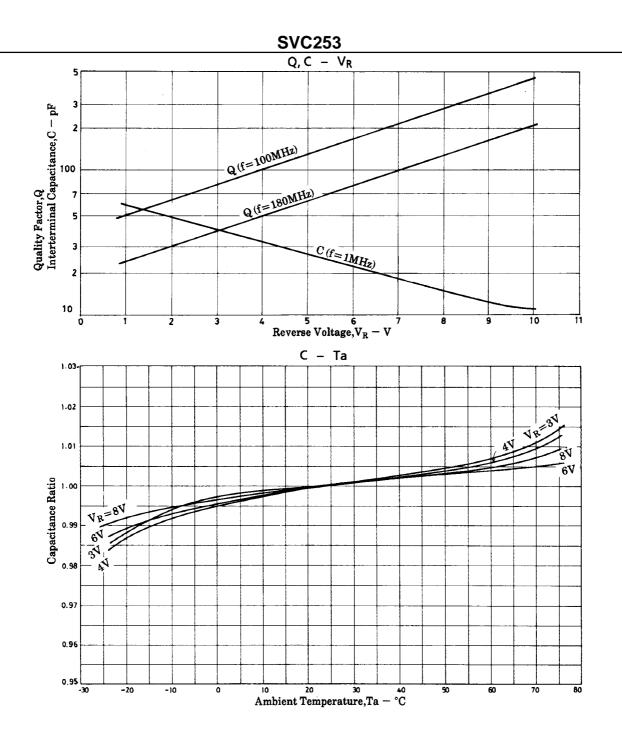
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Breakdown Voltage	V _(BR) R	I _R =10µA	16			V
Reverse Current	I _R	V _R =10V			50	nA
Interterminal Capacitance	C _{1.0V}	V _R =1.0V, f=1MHz*	51.0		76.0	pF
	C _{6.0V}	V _R =6.0V, f=1MHz	16.0		29.0	pF
	C _{9.0V}	V _R =9.0V, f=1MHz	9.5		15.5	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





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