

SVC253

Silicon Diffused Junction Type

Varactor Diode for AM Up-Conversion

Applications

· FM band VCO, PLL.

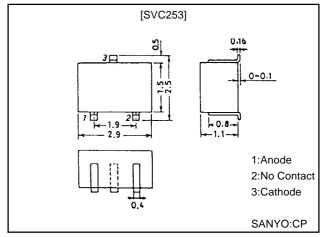
Features

- · 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	Tj		125	°C
Storage Temperature	Tstg		-55 to +125	°C

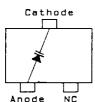
Electrical Characteristics at Ta = 25°C

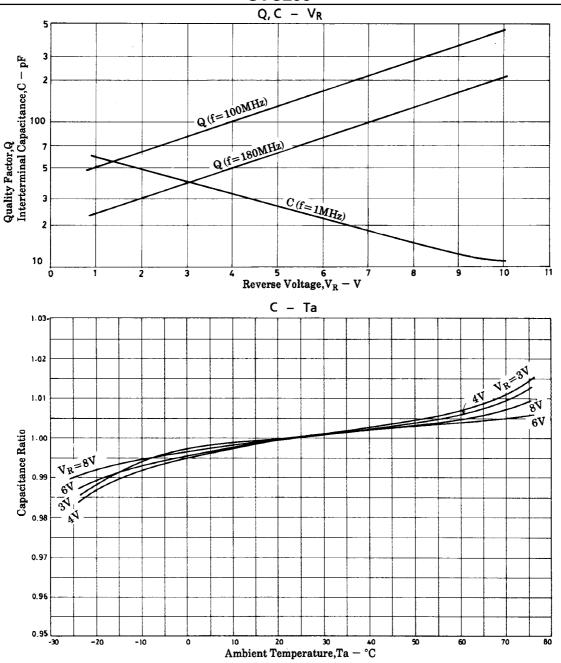
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Breakdown Voltage	V _(BR) R	I _R =10μA	16			V
Reverse Current	I _R	V _R =10V			50	nA
Interterminal Capacitance	C _{1.0V}	V _R =1.0V, f=1MHz*	51.0		76.0	pF
	C _{6.0V}	V _R =6.0V, f=1MHz	16.0		29.0	pF
	C _{9.0V}	V _R =9.0V, f=1MHz	9.5		15.5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





- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibilty for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of March, 1998. Specifications and information herein are subject to change without notice.