

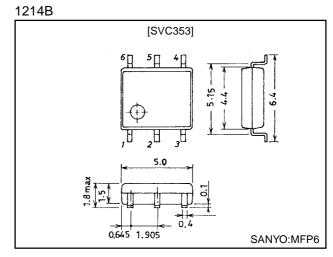
Diffused Junction Type Silicon Diode Composite Varactor Diode for AM Receiver Low-Voltage Electronic Tuning Use

Features

- Excellent matching characteristics because of composite type.
- The number of manufacturing processes can be reduced and automatic mounting is possible because of composite type.
- High capacitance ratio and high quality factor.
- Possible to offer the SVC353 devices in a tape reel packaging.
- · Surface mount type.

Package Dimensions

unit:mm



SVC353

Specifications

Absolute Maximum Ratings at Ta = 25°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

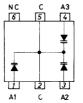
Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	
Breakdown Voltage	V _{(BR)R}	I _R =10µA	16			V
Reverse Current (One diode)	IR	V _R =9V			100	nA
Interterminal Capacitance (Average)	C _{1V}	V _R =1V, f=1MHz*1	460.0*		540.0*	pF
	C _{6V}	V _R =6V, f=1MHz		52.0		pF
	C _{8V}	V _R =8V, f=1MHz	21.0		27.0	pF
Quality Factor	Q	V _R =1V, f=1MHz	200			
Capacitance Ratio	CR	C _{1V} /C _{8V} , f=1MHz	17.5		24.5	
Matching Tolerance	∆C _m *2	V _R =1V to 8V, f=1MHz			±2.5	%

Note)*1:1MHz signal:20mVrms

Note)*2: Δ_{Cm} = (C_{Dn}-C_{D3}) / C_{D3}×100 Note)*:The SVC353 is classified by C_{1V} as follows:

Rank	C _{1V} (pF)
R	460.0 to 491.0
S	482.0 to 515.0
Т	505.0 to 540.0

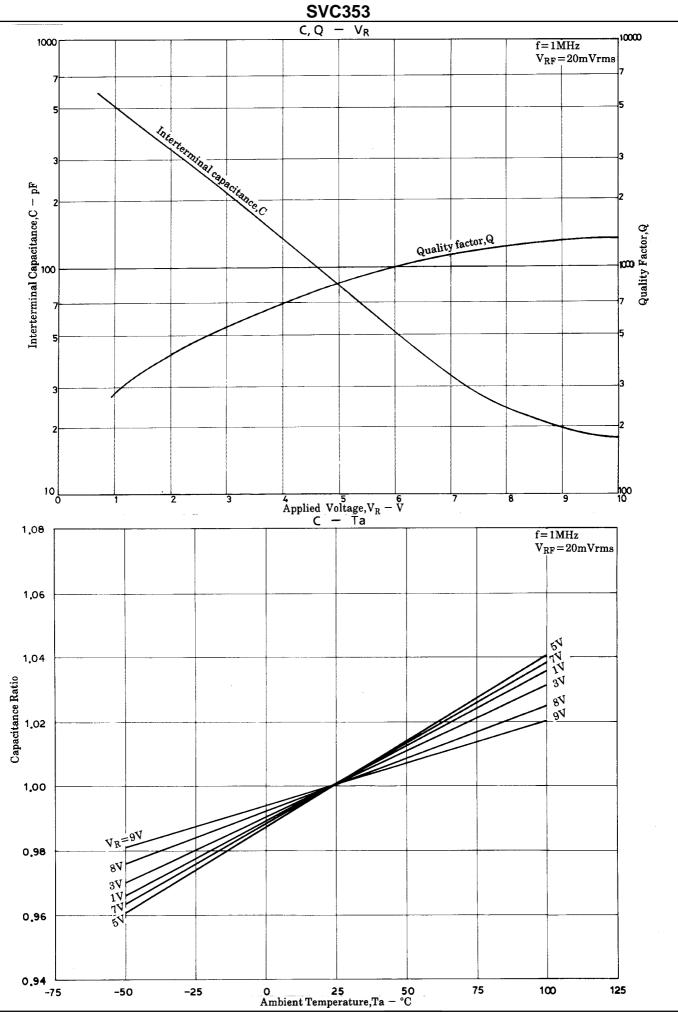
Electrical Connection



A:Anode C:Cathode

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