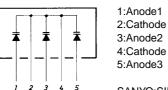


SVC351 Diffused Junction Type Silicon Diode **Composite Varactor Diode for AM Receiver Electronic Tuning Use**

Features

- · Execellent matching characteristics because of composite type.
- \cdot The number of manufacturing processes can be reduced and automatic mounting is possible because of composite type.
- · High capacitance ratio and high quality factor.

Electrical Connection

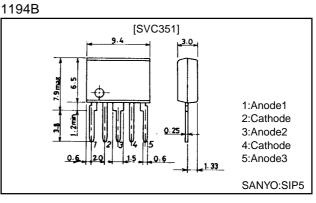


3:Anode2 4:Cathode 5:Anode3

SANYO:SIP5

Package Dimensions

unit:mm



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
			min	typ	max	
Breakdown Voltage	V(BR)R	I _R =10µA	16			V
Reverse Current (One diode)	۱ _R	V _R =9V			100	nA
Interterminal Capacitance (Average)	C _{1V}	V _R =1V, f=1MHz*1	428.0*		500.0*	pF
	C _{6V}	V _R =6V, f=1MHz	48.0		65.0	pF
	C _{8V}	V _R =8V, f=1MHz	20.5		27.0	pF
Quality Factor	Q	V _R =1V, f=1MHz	200			
Capacitance Ratio	CR	C _{1V} /C _{8V} , f=1MHz	16.5		23.5	
Matching Tolerance	$\Delta Cm^{*}2$	V _R =1 to 8V, f=1MHz			±2.5	%

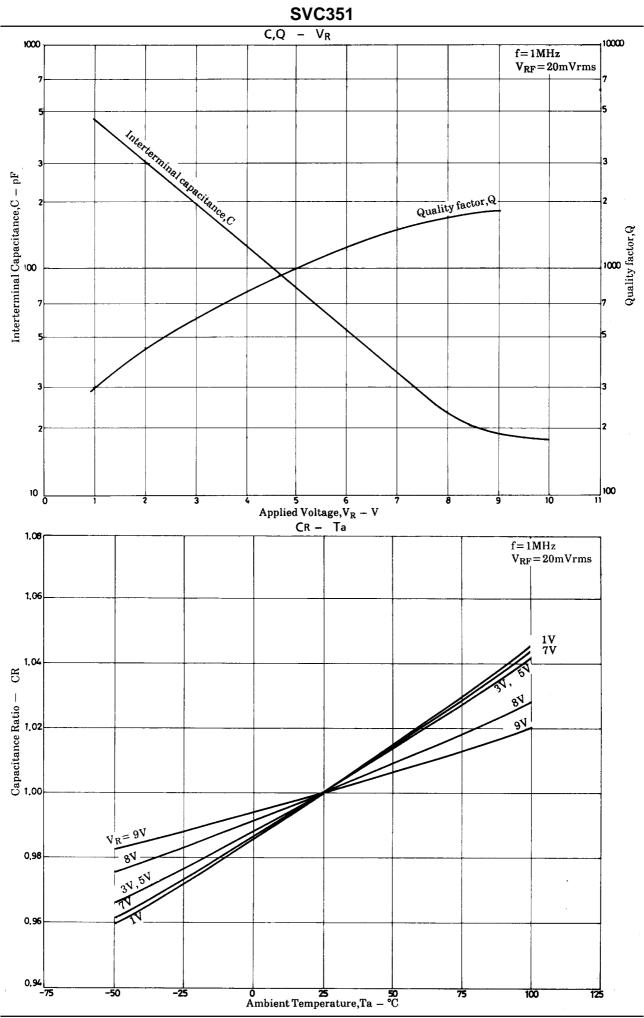
*1:1MHz signal:20 Vrms

 $*2: \Delta Cm = (C_{Dn} - C_{D3})/C_{D3} \times 100$

* : The SVC 351 is classified by C_{1V} as follows:

	Rank	C _{1V} (pF)
	К	428.0 to 456.5
	L	447.5 to 478.0
	М	468.5 to 500.0

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