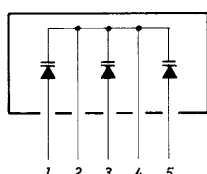


**SVC351**

Diffused Junction Type Silicon Diode
**Composite Varactor Diode for
 AM Receiver 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.

Electrical Connection

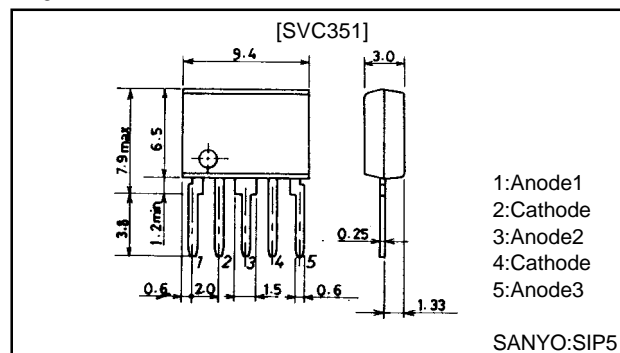
1:Anode1
 2:Cathode
 3:Anode2
 4:Cathode
 5:Anode3

SANYO:SIP5

Package Dimensions

unit:mm

1194B



1:Anode1
 2:Cathode
 3:Anode2
 4:Cathode
 5:Anode3

SANYO:SIP5

SpecificationsAbsolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	V_R		16	V
Junction Temperature	T_j		125	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +125	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25^\circ\text{C}$

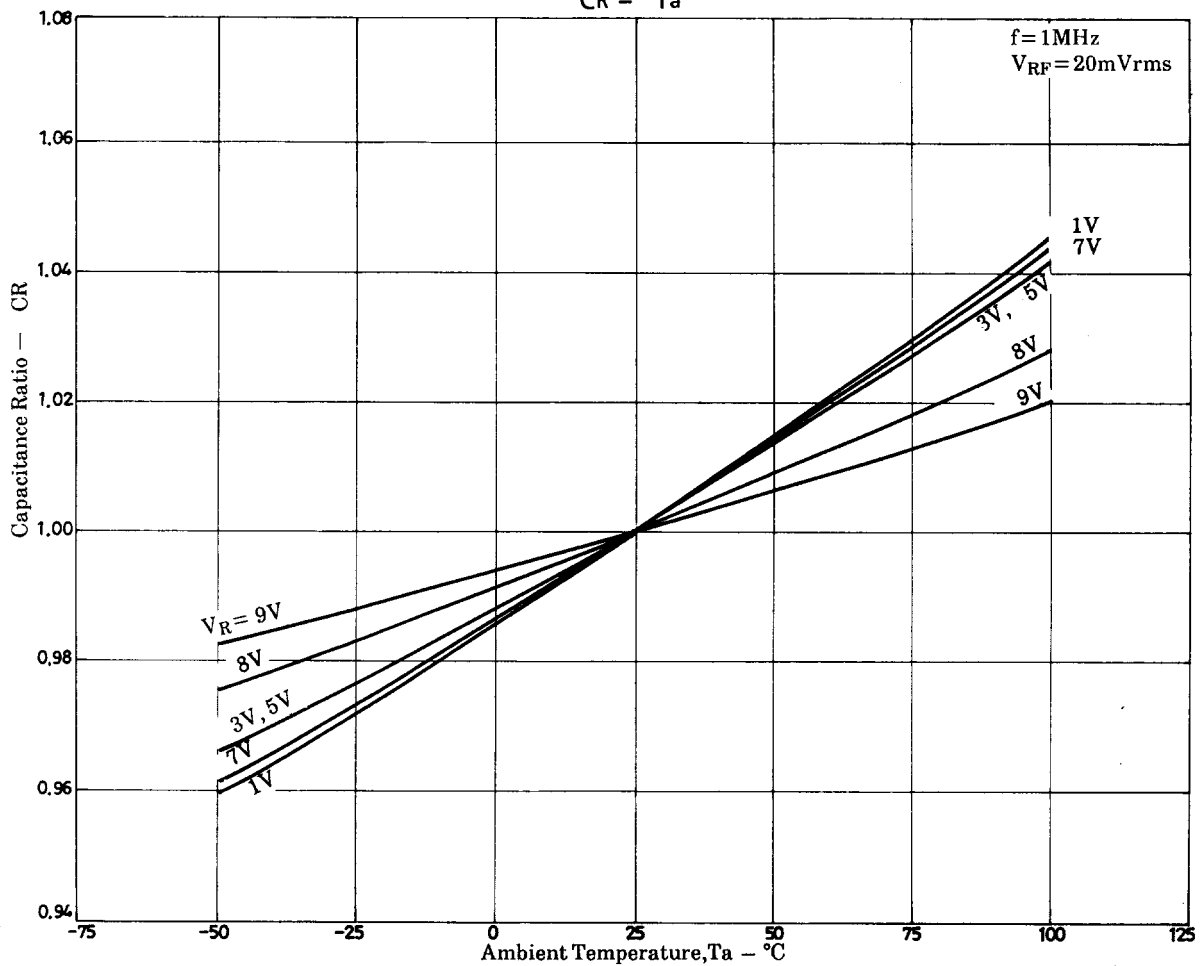
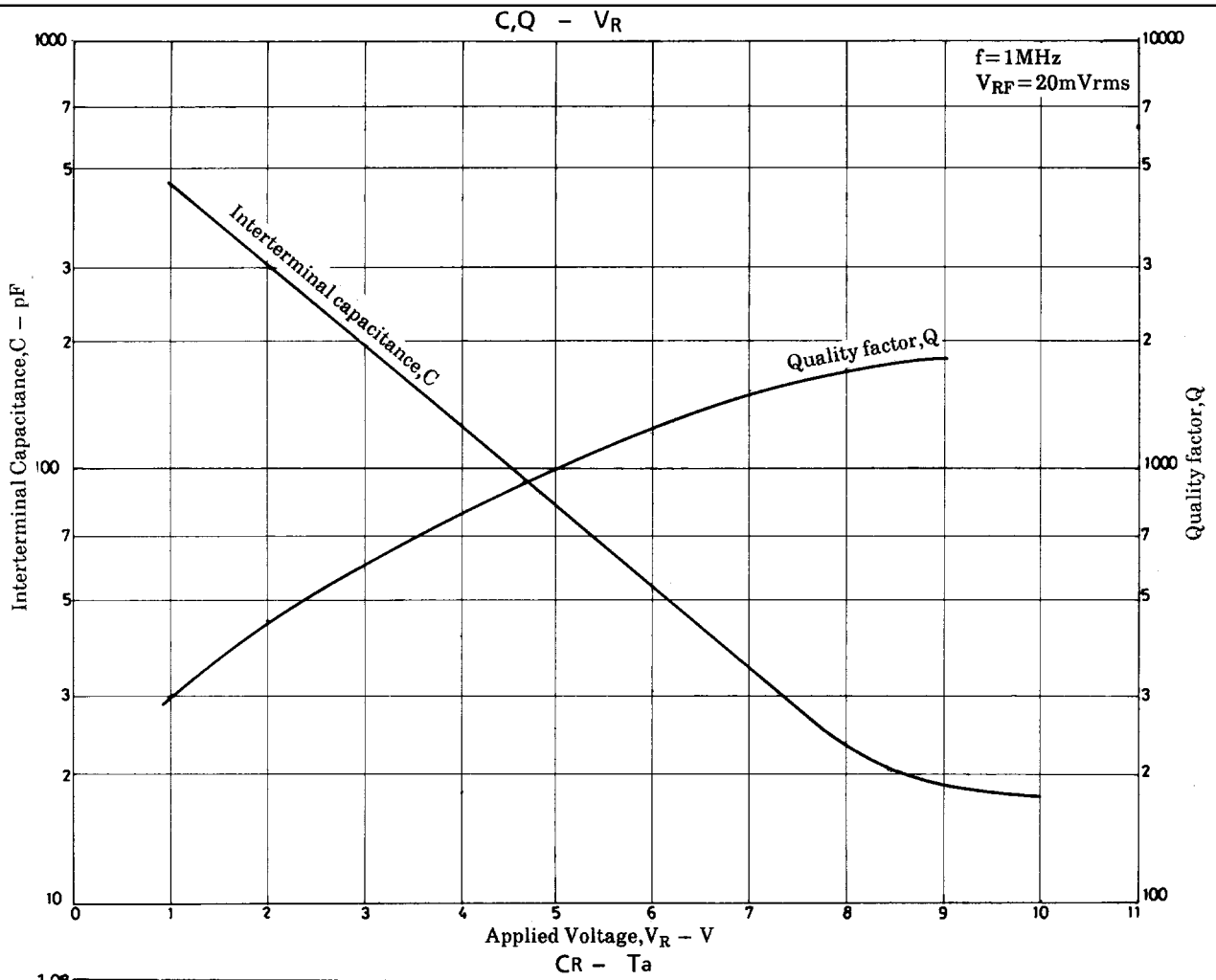
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)R}$	$I_R=10\mu\text{A}$	16			V
Reverse Current (One diode)	I_R	$V_R=9\text{V}$			100	nA
Interterminal Capacitance (Average)	C_{1V}	$V_R=1\text{V}, f=1\text{MHz}^*1$	428.0*		500.0*	pF
	C_{6V}	$V_R=6\text{V}, f=1\text{MHz}$	48.0		65.0	pF
	C_{8V}	$V_R=8\text{V}, f=1\text{MHz}$	20.5		27.0	pF
Quality Factor	Q	$V_R=1\text{V}, f=1\text{MHz}$	200			
Capacitance Ratio	CR	$C_{1V}/C_{8V}, f=1\text{MHz}$	16.5		23.5	
Matching Tolerance	ΔC_m^*2	$V_R=1 \text{ to } 8\text{V}, f=1\text{MHz}$			± 2.5	%

*1 : 1MHz signal : 20 Vrms

*2 : $\Delta C_m = (C_{Dn} - C_{D3}) / C_{D3} \times 100$ * : The SVC 351 is classified by C_{1V} as follows:

Rank	$C_{1V}(\text{pF})$
K	428.0 to 456.5
L	447.5 to 478.0
M	468.5 to 500.0

SVC351



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