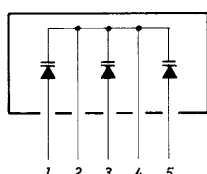


SANYO**SVC351**

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

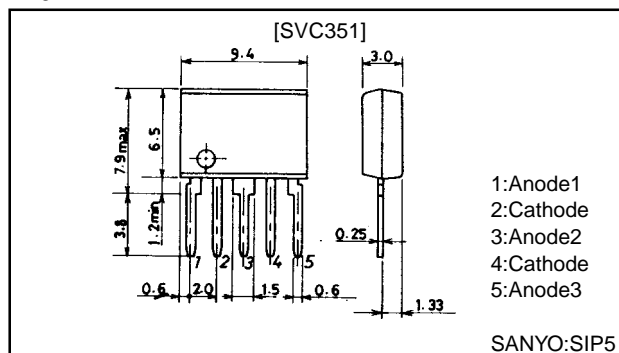
1:Anode1
 2:Cathode
 3:Anode2
 4:Cathode
 5:Anode3

SANYO:SIP5

Package Dimensions

unit:mm

1194B



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

SANYO:SIP5

Specifications**Absolute Maximum Ratings at Ta = 25°C**

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

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu A$	16			V
Reverse Current (One diode)	I_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	ΔC_m^*2	$V_R=1 \text{ to } 8V, f=1MHz$			± 2.5	%

*1 : 1MHz signal : 20 Vrms

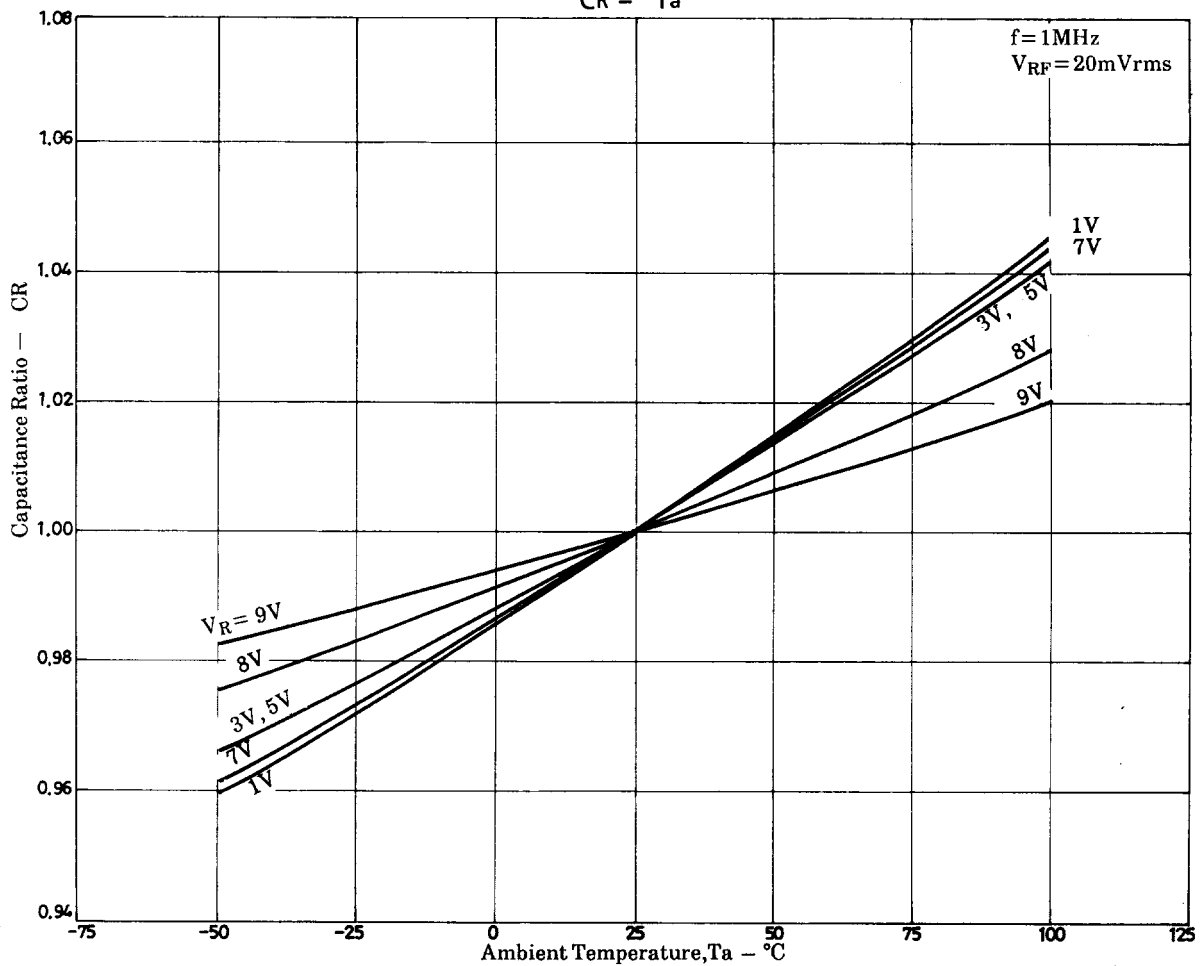
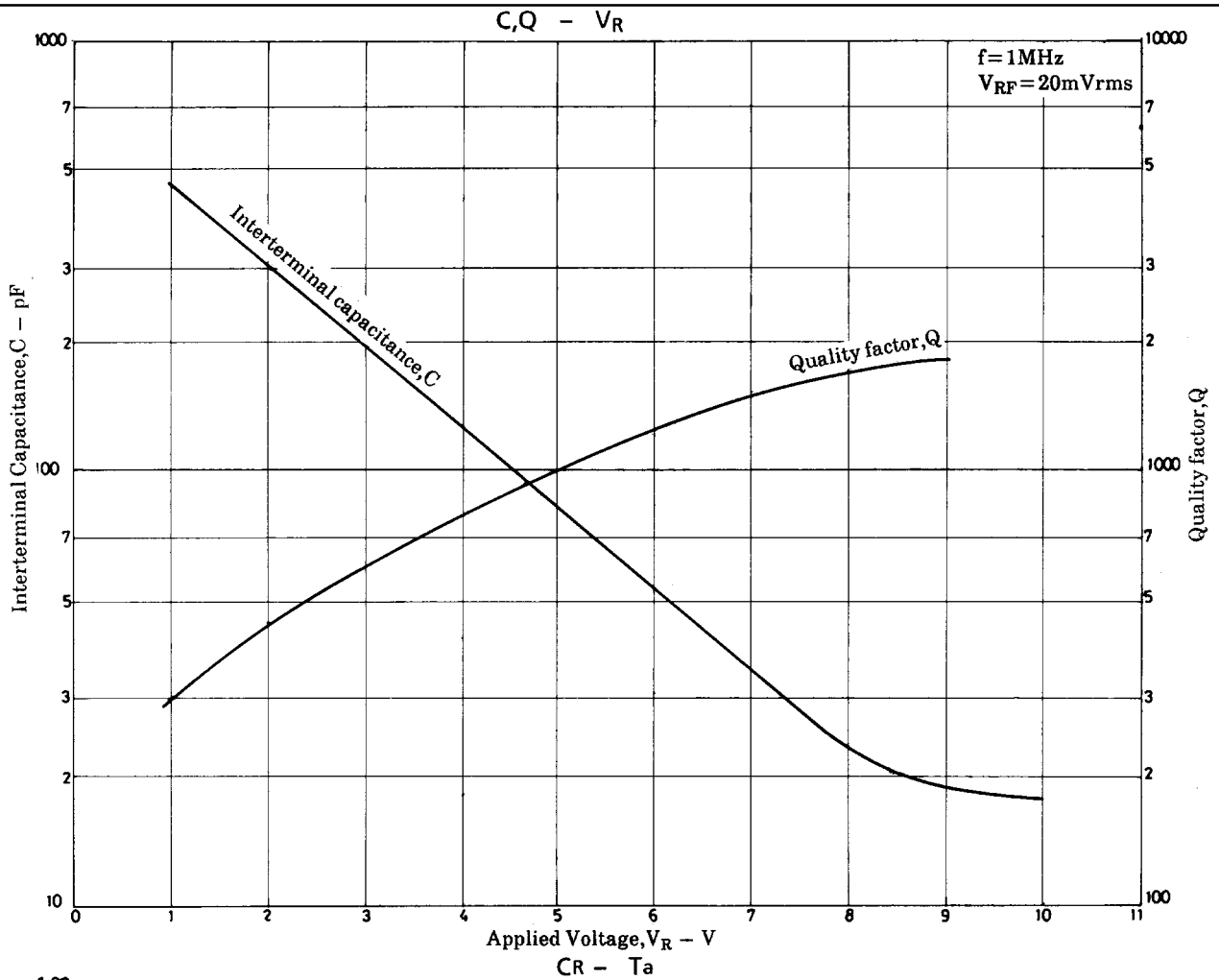
*2 : $\Delta C_m = (C_{Dn} - C_{D3}) / C_{D3} \times 100$ * : The SVC 351 is classified by C_{1V} as follows:

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

SANYO Electric Co.,Ltd. Semiconductor Business Headquarters
 TOKYO OFFICE, Tokyo Bldg., 1-10, Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

71598HA (KT)/2179MO, TS No.2819-1/3

SVC351



- 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 responsibility 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 July, 1998. Specifications and information herein are subject to change without notice.