

SVC364

Diffused Junction Type Silicon Diode

Composite Varactor Diode for AM Receiver Low-Voltage Electronic Applications

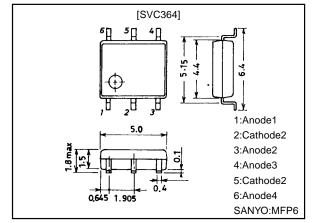
Features

- · Excellent matching characteristics because of composite type.
- · Manufacturing processes reducible and automatic mounting supported.
- · High capacitance ratio and high quality factor.
- · Cathodes separated in RF and OSC.
- · Tape reel packaging.
- · Surface mount type.

Package Dimensions

unit:mm

1214A



Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Reverse Voltage	٧ _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
	Symbol		min	typ	max	
Breakdown Voltage	V _{(BR)R}	I _R =10μA	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		52.0		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}	17.5		24.5	
Matching Tolerance	ΔC _m *2	V _R =1V to 8V, f=1MHz			±2.5	%

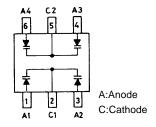
Note)*1:1MHz signal:20mVrms.

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

Note)*:The SVC364 is classified by C_{1V} as follows:

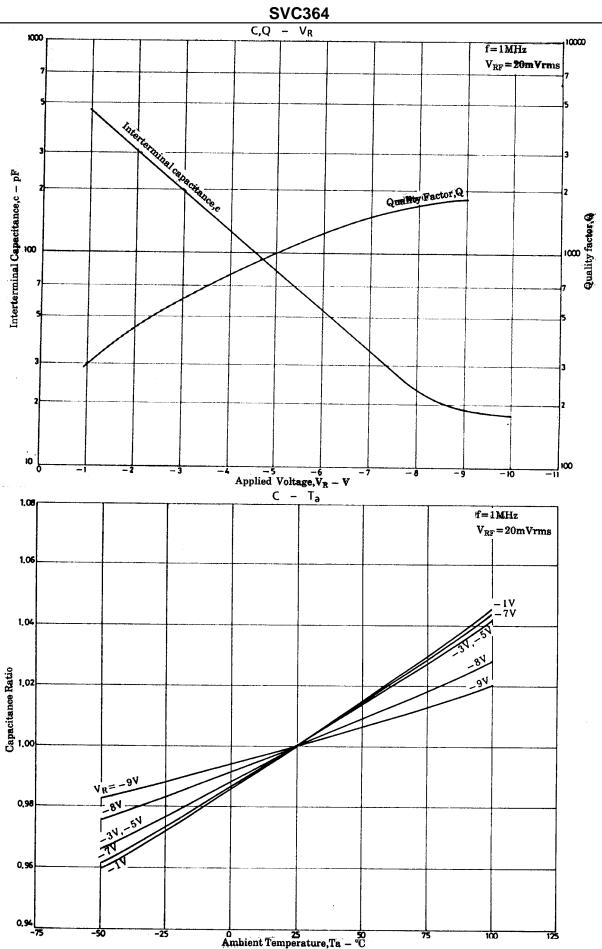
Rank	C _{1V} (pF)
K	428.0 to 456.5
L	447.5 to 478.0
M	468.5 to 500.0

Electrical Connection



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





- 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.