

SANYO

No.2614B

LA7952**Video Switch for TV / VCR Use****Features**

- . On-chip driver with 4 inputs, 1 output, 75ohm termination
- . On-chip 6dB amp
- . Excellent crosstalk characteristic
- . Wide band
- . Input with DC restoration circuit

Maximum Ratings at Ta=25°C

			unit
Maximum Supply Voltage	V7max	14	V
Maximum Input Supply Voltage(1)	V4max, V6max V8max, V9max	8	V
Maximum Input Supply Voltage(2)	V2max, V3max	14	V
Maximum Output Current	I1max	10	mA
Allowable Power Dissipation	Pdmax	540	mW
Operating Temperature	Topr	-20 to +65	°C
Storage Temperature	Tstg	-55 to +150	°C

Operating Conditions at Ta=25°C

		unit
Operating Voltage Range	VCCop	10.5 to 13.5 V
Recommended Supply Voltage	VCC	12 V

Operating Characteristics at Ta=25°C, VCC=12V

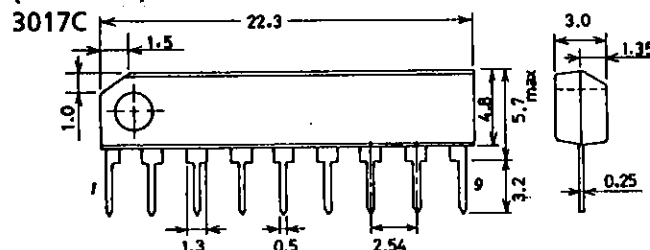
		min	typ	max	unit
Quiescent Current Dissipation	ICC	14	20	28	mA
Input Bias Voltage	V4, V6, V8, V9	2.7	3.0	3.3	V
Output Bias Voltage	V1	4.6	6.1	7.6	V
Output DC Offset Voltage	VOS		15	100	mV
Control Threshold Voltage	V2H, V3H V2L, V3L	3.0		1.5	V
Control Input Current	I2, I3	-20	-6		uA
Voltage Gain	GV	5.6	6.1	6.6	dB
Frequency Characteristic	GV-f	-3	0		dB

f=1MHz, VIN=1Vpp,
Note 1
OdB at f=100kHz,
Note 1
f=10MHz, VIN=1Vpp

Continued on next page.

Package Dimensions

(unit : mm)



SANYO : SIP9

SANYO Electric Co., Ltd. Semiconductor Business Headquarters

TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

O3095MH/7119YT/8287TA, TS No.2614-1/4

Continued from preceding page.

Output Dynamic Range V_{DR}	$f=15\text{kHz}, V_{IN}=1.5\text{p-p, Note 1}$	min	typ	max	unit
Crosstalk (Note 2) CT	$V_{IN}=1\text{Vp-p}, f=3\text{MHz, Note 1}$	1.4	1.5		Vpp
	$V_{IN}=1\text{Vp-p}, f=5\text{MHz, Note 1}$	48	58		dB
		45	55		dB

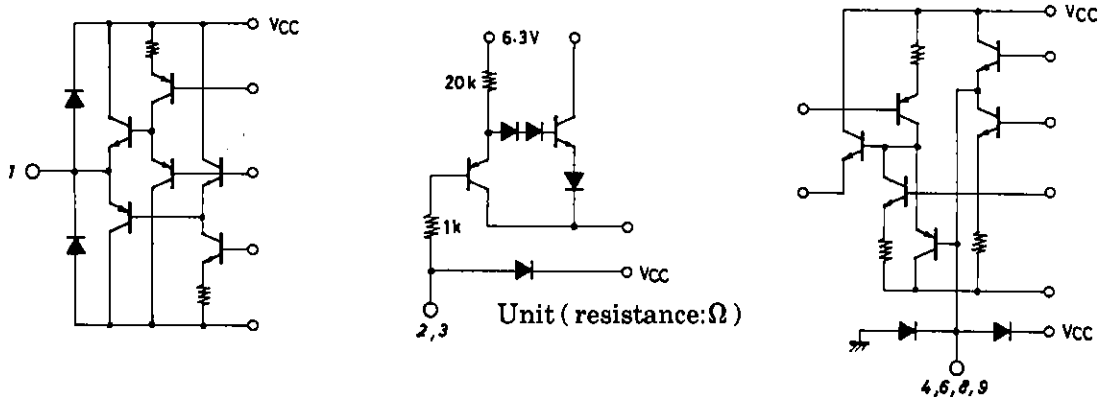
* Current direction: Plus: Flowing into IC
Minus: Flowing out of IC

Video Switch Truth Table

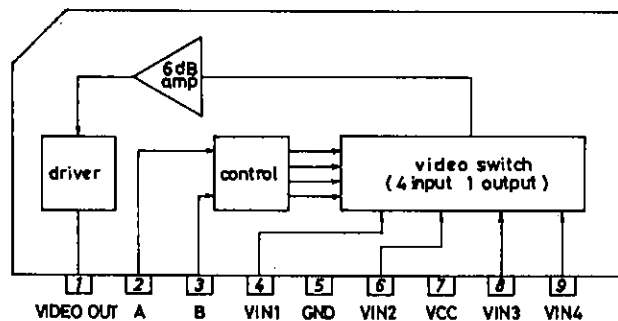
S2 (Pin 2)	S3 (pin 3)	VIN1 (Pin 4)	VIN2 (Pin 6)	VIN3 (Pin 8)	VIN4 (Pin 9)
H	H	ON	OFF	OFF	OFF
L	H	OFF	ON	OFF	OFF
H	L	OFF	OFF	ON	OFF
L	L	OFF	OFF	OFF	ON

Note 1: Refer to this Truth Table and make measurements by switching S2, S3.

Input/Output Equivalent Circuit



Equivalent Circuit Block Diagram



- 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 **December, 1996**. Specifications and information herein are subject to change without notice.