

3-INPUT 1-OUTPUT VIDEO SWITCH

■ GENERAL DESCRIPTION

The NJM2535 is a video switch for VCR, TV and others.
It contains three cramp-type inputs and one buffer-type output.

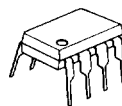
■ FEATURES

- Operating Voltage
- Low Supply Current
- Crosstalk
- 3-Input, 1-Output
- Bipolar Technology
- Package Outline

(+4.75V ~ +13V)
(4.6mA MAX)
(-70dB)

DIP8, DMP8, SIP8, SSOP8

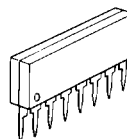
■ PACKAGE OUTLINE



NJM2535D



NJM2535M

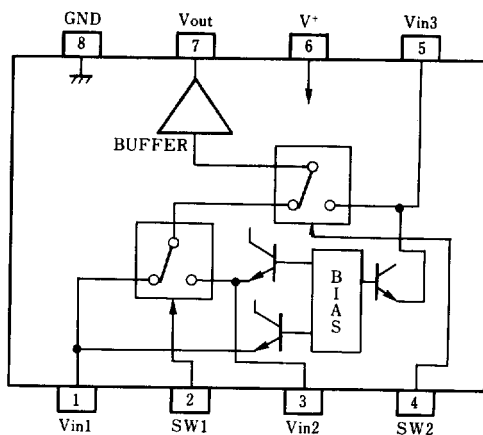


NJM2535L



NJM2535V

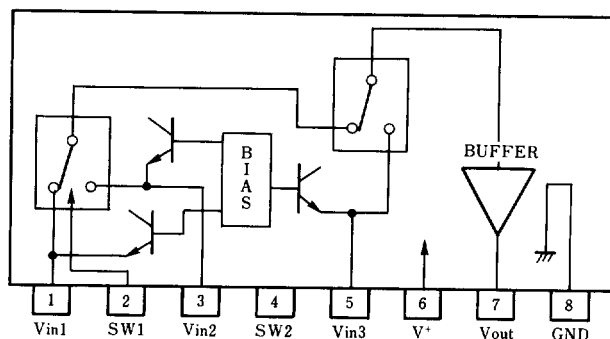
■ PIN CONFIGURATION



PIN FUNCTION

- 1 : Vin1
- 2 : SW1
- 3 : Vin2
- 4 : SW2
- 5 : Vin3
- 6 : V⁺
- 7 : V_{OUT}
- 8 : GND

NJM2535D
NJM2535M
NJM2535V



PIN FUNCTION

- 1 : Vin1
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NJM2535L



NJM2535

■ ABSOLUTE MAXIMUM RATINGS

(Ta=25℃)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V ⁺	+15	V
Power Dissipation	P _D	(DIP-8) 500 (DMP-8) 300 (SIP-8) 800 (SSOP-8) 250	mW
Operating Temperature Range	T _{opr}	−20 ~ +75	℃
Storage Temperature Range	T _{stg}	−40 ~ +125	℃

■ ELECTRICAL CHARACTERISTICS

(V⁺=5V, Ta=25℃)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V ⁺		+4.5	—	+13.0	V
Supply Current	I _{CC}		—	3.6	4.6	mA
Frequency Characteristics	G _f	V _{IN} =2V _{pp} , V _O =10MHz/100kHz	−1.0	0	+1.0	dB
Voltage Gain	G _V	V _{IN} =2V _{pp} , 100kHz	−0.5	0	+0.5	dB
Differential Gain	DG	V _{IN} =2V _{pp} , Standard staircase signal, APL=50%	—	0	3.0	%
Differential Phase	DP	V _{IN} =2V _{pp} , Standard staircase signal, APL=50%	—	0	3.0	deg
Output Offset Voltage	V _{off}		−30	0	+30	mV
Crosstalk	CT	V _{IN} =2V _{pp} , 4.3MHz	—	−70	−60	dB
Switching Voltage	V _{CH}		2.4	—	—	V
	V _{CL}		—	—	0.8	V
Input Impedance	R _I		—	30	—	kΩ
Output Impedance	R _O		—	25	—	Ω
Input Bias Voltage	V _{IN}		—	2.5	—	V

■ TEST CIRCUIT

