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

 $(+4.5V \sim +13V)$

Low Operating Current

(4.6mA MAX)

(-70dB)

3-Input, 1-Output

Bipolar Technology

Package Outline

DIP8, DMP8, SIP8, SSOP8

■ PACKAGE OUTLINE





NJM2535D

NJM2535M

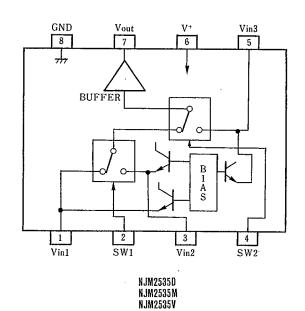




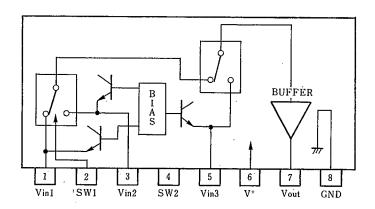
NJM2535L

NJM2535V

■ PIN CONFIGURATION







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

NJM2535L

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

■ ELECTRICAL CHARACTERISTICS

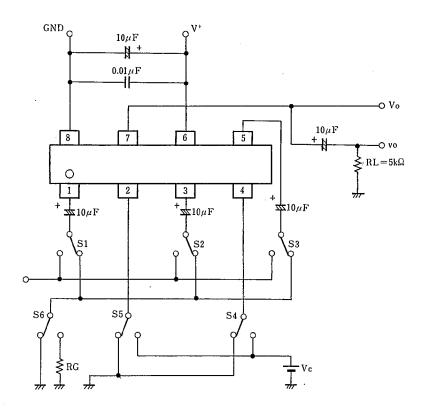
(V⁺=5V, Ta=25℃)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V ⁺			_	+13.0	v
Supply Current	I _{CC}			3.6	4.6	mA
Frequency Characteristics	Gf	V _{IN} =2Vpp, Vo=10MHz/100kHz	-1.0	0	+1.0	dB
Voltage Gain	· G _V	V _{IN} =2Vpp, 100kHz	-0.5	0	+0.5	dΒ
Differential Gain	DG	V _{IN} =2Vpp, Standard staircase signal, APL=50%	_	0	3.0	%
Differential Phase	DP	V _{IN} =2Vpp, Standard staircase signal, APL=50%	_	0	3.0	deg
Output Offset Voltage	$V_{ m off}$	·	-30	0	+30	mV
Crosstalk	СТ	V _{IN} =2Vpp, 4.3MHz		-70	-60	dB
Caritabia a Mala-	V _{CH}		2.4	_	-	V
Switching Voltage	V _{CL}		_		0.8	V
Input Impedance	RI		-	30	-	kΩ
Output Impedance	Ro		_	25	_	Ω
Input Bias Voltage	Vin		_	2.5	-	V

■ INPUT CONTROL SIGNAL OUTPUT SIGNAL

SW1	SW2	OUTPUT SIGNAL
T	L	V _{IN} 1
Н	L	V _{IN} 2
L/H	Н	V _{IN} 3

■ TEST CIRCUIT



This IC requires $1M\,\Omega$ resistance between INPUT and GND pin for clamp type input since the minute current causes an unstable pin voltage.

NJM253	35	5	2	И	N	J	V
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MEMO

[CAUTION]
The specifications on this databook are only given for information , without any guarantee as regards either mistakes or omissions. The application circuits in this databook are described only to show representative usages of the product and not intended for the guarantee or permission of any right including the industrial rights.