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We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

(+4.5V to +13V) Operating Voltage Low Operating Current (4.6mA MAX) Crosstalk (-70dB)

• 3-Input, 1-Output • Bipolar Technology

• Package Outline DIP8, DMP8, SIP8, SSOP8

■ PACKAGE OUTLINE





NJM2535D

NJM2535M

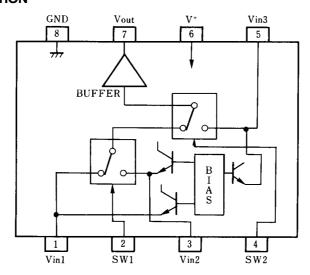




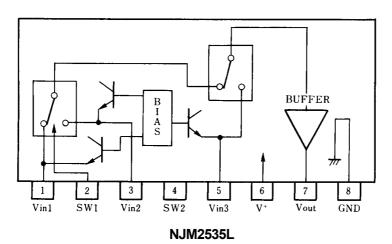
NJM2535L

NJM2535V

■ PIN CONFIGURATION



NJM2535D NJM2535M NJM2535V



PIN FUNCTION

1 : Vin1 2 : SW1

3 : Vin2 4 : SW2

5: Vin3 6: V⁺ 7: V_{OUT}

8 : GND

PIN FUNCTION

1 : Vin1

: SW1

3: Vin2 4: SW2

5: Vin3 6: V⁺ 7: V_{OUT} 8: GND

■ ABSOLUTE MAXIMUM RATINGS

 $(T_a = 25^{\circ}C)$

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}	-40 to +85	℃	
Storage Temperature Range	T _{stg}	-40 to +125	°C	

■ ELECTRICAL CHARACTERISTICS

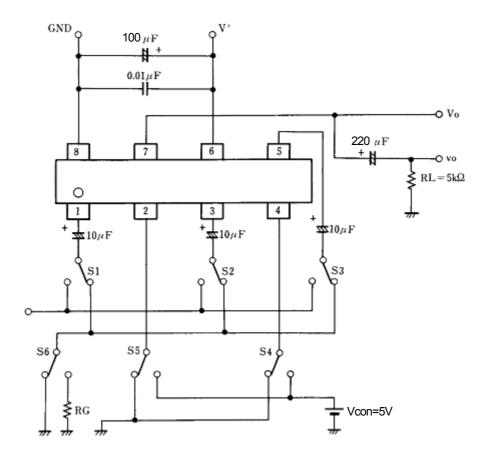
 $(V^+ = 5V, T_a = 25^{\circ}C)$

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Supply Voltage	V ⁺		+4.5	-	+13.0	V
Supply Current	Icc		-	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%	-	0.2	3.0	%
Differential Phase	ential Phase DP $V_{IN} = 2V_{PP}$, Standard staircase signal,		-	0.2	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
Output Impedance	Ro		-	25	-	Ω
Input Clamp Voltage	V_{IN}		-	1.5	-	V

■ INPUT CONTROL SIGNAL-OUTPUT SIGNAL

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

■ TEST CIRCUIT

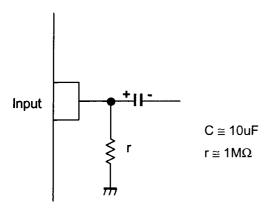


Terminal DC voltage at test circuit (Ta=25°C)

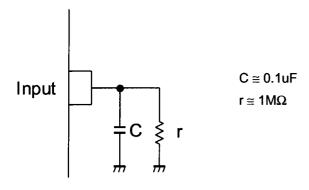
Terminal name	Vin1	Vin2	Vin3	Vout
DC voltage (V)	(3*V ⁺)/10	(3*V ⁺)/10	(3*V ⁺)/10	(3*V ⁺)/10 - 0.7

■ APPLICATION

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



This IC requires $0.1\mu F$ capacitor between INPUT and GND, $1M\Omega$ resistance between INPUT and GND for clamp type input at mute mode.



[CAUTION]

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