

查询"NJM2233BD"供应商 2-INPUT SINGLE VIDEO SWITCH

■ GENERAL DESCRIPTION

The NJM2233B is 2-input signal video switch selecting one of two video or audio signals. Its operating voltage is 4.75 to 13V and bandwidth is 10MHz. Crosstalk is 70dB (at 4.43MHz). It is applied to both NTSC and PAL VTR.

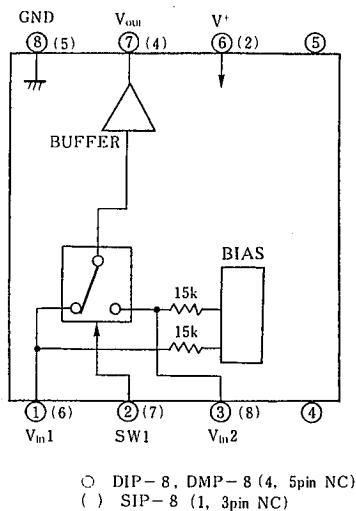
■ FEATURES

- Operating Voltage (+4.75V~+13V)
- 2 Input-1 Output
- Crosstalk 70dB (at 4.43MHz)
- Package Outline DIP8, DMP8, SIP8, SSOP8
- Bipolar Technology

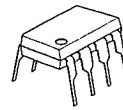
■ APPLICATION

- VCR Video Camera AV-TV Video Disc Player Audio

■ BLOCK DIAGRAM



■ PACKAGE OUTLINE



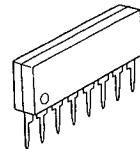
NJM2233BD



NJM2233BM

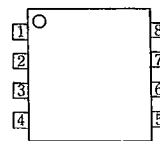


NJM2233BV



NJM2233BL

■ PIN CONFIGURATION



NJM2233BD
NJM2233BM
NJM2233BV

PIN FUNCTION

1. V_{in1}
2. SW1
3. V_{in2}
4. N.C.
5. N.C.
6. V^+
7. V_{out}
8. GND



NJM2233BL

PIN FUNCTION

1. N.C.
2. V^+
3. N.C.
4. V_{out}
5. GND
6. V_{in1}
7. SW1
8. V_{in2}

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■ ABSOLUTE MAXIMUM RATINGS

(Ta=25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V*	15	V
Power Dissipation	Pd	(DIP8) 500	mW
		(DMP8) 300	mW
		(SIP8) 800	mW
		(SSOP8) 250	mW
Operating Temperature Range	Topr	-20~+75	°C
Storage Temperature Range	Tsig	-40~+125	°C

■ ELECTRICAL CHARACTERISTICS

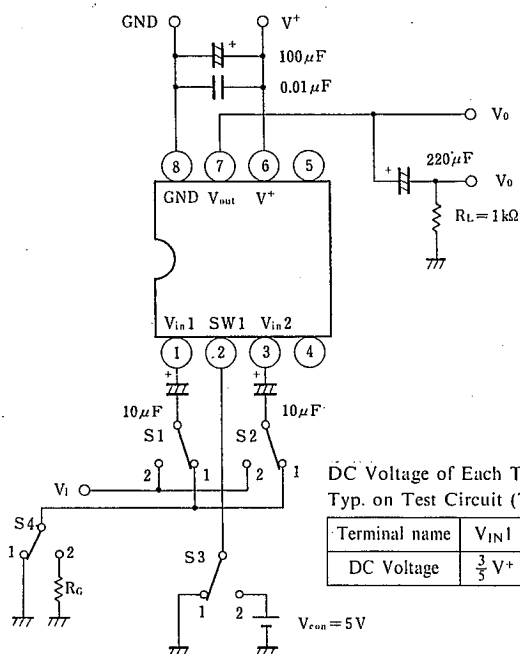
(V*=5V, Ta=25°C)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V*		4.75	—	13.0	V
Operating Current	ICC	S1=S2=S3=1	—	8.5	11.0	mA
Frequency Characteristic (1)	Gf1	Vi=2.5Vpp Vo(20Hz)/Vo (100kHz)	—	0	±1.0	dB
Frequency Characteristic (2)	Gf2	Vi=2.0Vpp Vo(10MHz)/Vo(100kHz)	—	0	±1.0	dB
Voltage Gain	Gv	Vi=2.5Vpp, 100kHz, Vo/Vi	-0.5	0	—	dB
Total Harmonic Distortion	THD	Vi=2.5Vpp, 1kHz	—	0.01	—	%
Differential Gain	DG	Vi=2Vpp standard staircase signal	—	0	—	%
Differential Phase	DP	Vi=2Vpp standard staircase signal	—	0	—	deg
Output Offset Voltage	Voff	S1=S2=1, S3=1→2, Vo voltage change	—	0	±15	mV
Crosstalk	CT	(S1=S3=1, S2=2) and (S1=S3=2, S2=1) Vi=2.0Vpp, 4.43MHz, Vo/Vi	—	-70	—	dB
Switch Change Voltage	VCH	Garanteed voltage of all switch on	2.4	—	—	V
	VCL	Garanteed voltage of all switch off	—	—	0.8	V
Input Impedance	Ri		—	15	—	kΩ
Output impedance	RO		—	10	—	Ω

■ CONTROL SIGNAL - OUTPUT SIGNAL

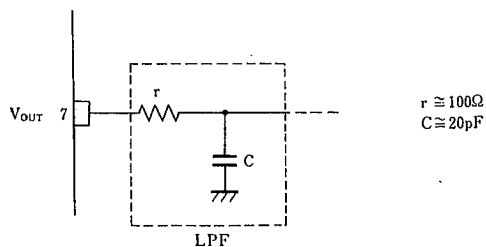
SW 1	OUTPUT SIGNAL
L	Vix 1
H	Vix 2

■ TEST CIRCUIT



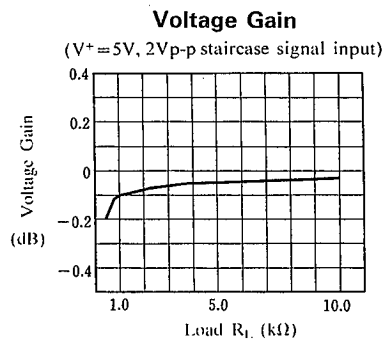
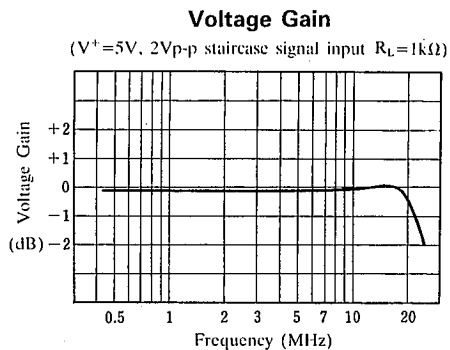
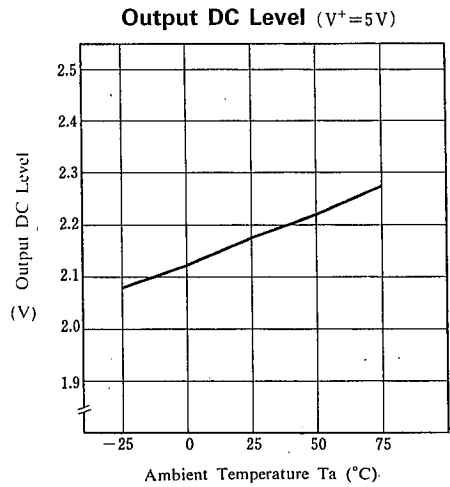
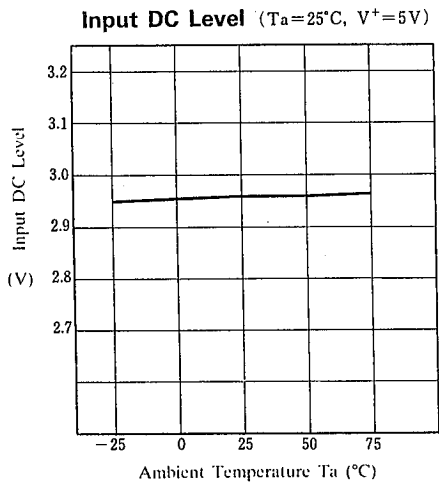
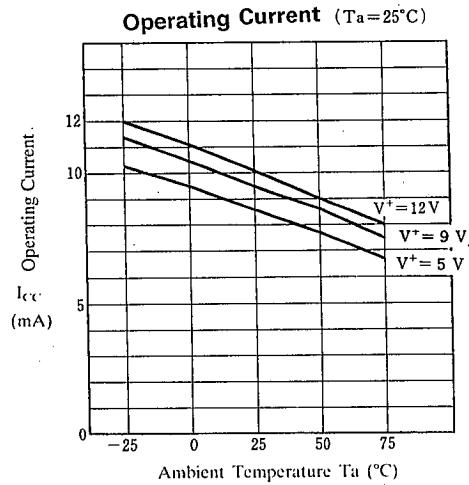
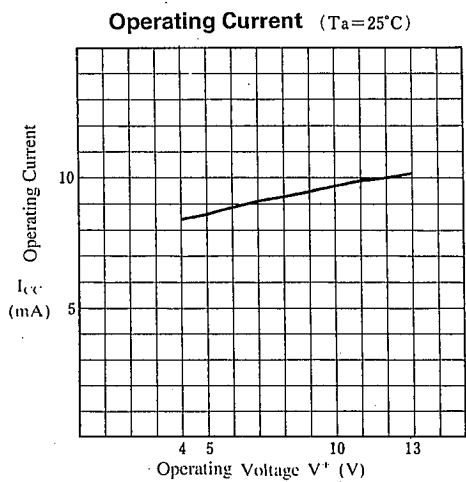
■ APPLICATION

Oscillation Pervention on light loading conditions
Recommended under circuit

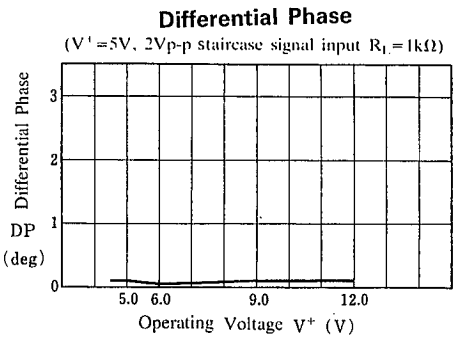
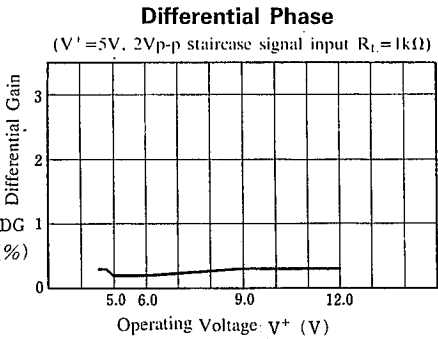
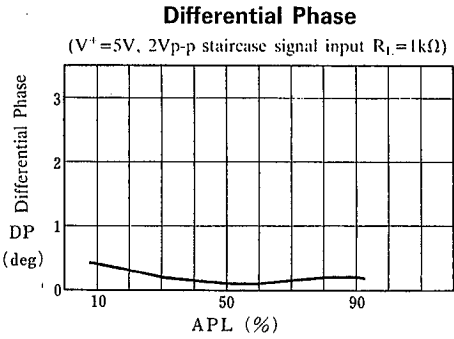
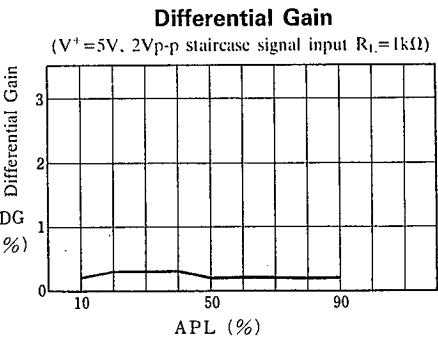
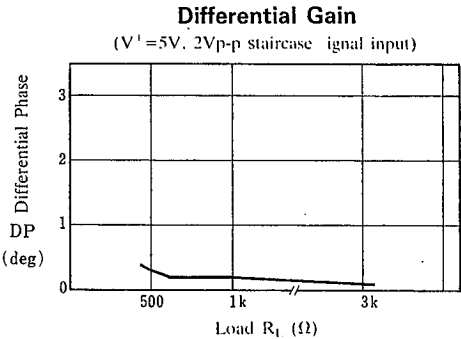
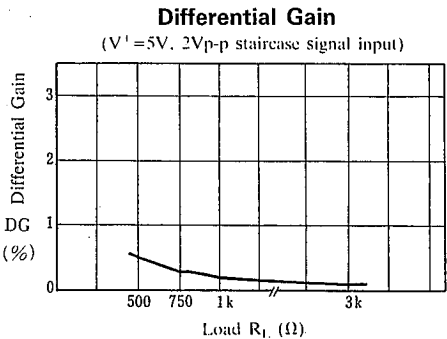


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■ TYPICAL CHARACTERISTICS

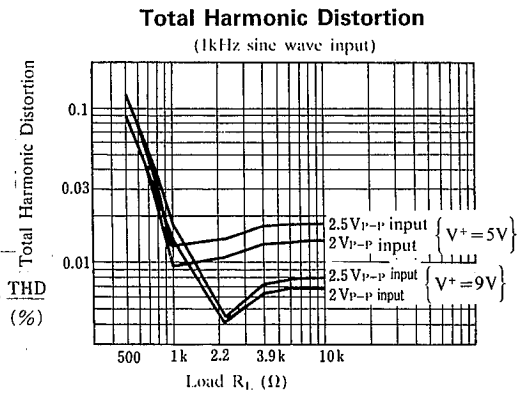
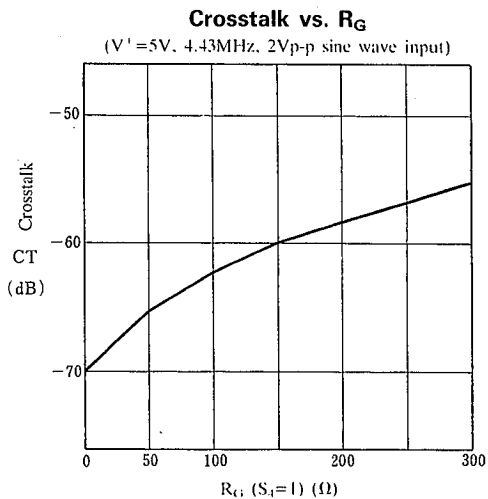
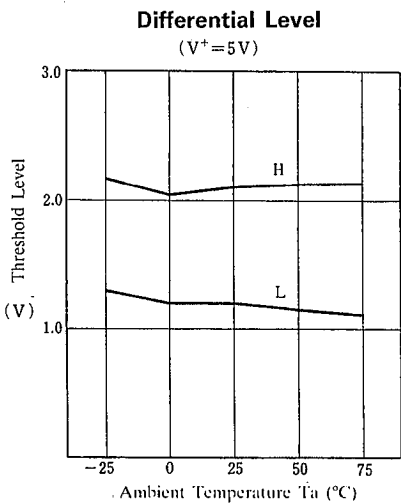
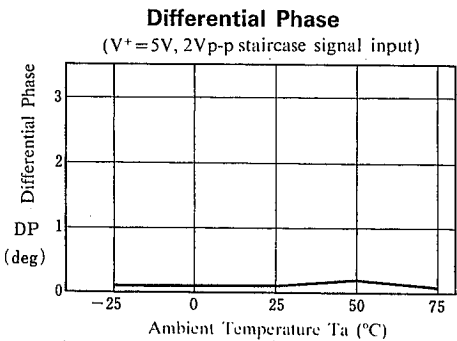
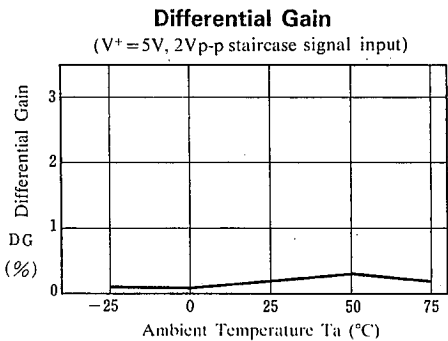


■ TYPICAL CHARACTERISTICS



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■ TYPICAL CHARACTERISTICS



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■ EQUIVALENT CIRCUIT

PIN NO.	SYMBOL	INSIDE EQUIVALENT CIRCUIT	PIN NO.	SYMBOL	INSIDE EQUIVALENT CIRCUIT
1	V _{IN} 1		5	NC	
2	SW 1		6	V ⁺	
3	V _{IN} 2		7	V _{OUT}	
4	NC		8	GND	

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MEMO

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