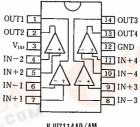


- Open Drain Output
- Package Outline
- C-MOS Technology
- **EQUIVALENT CIRCUIT**



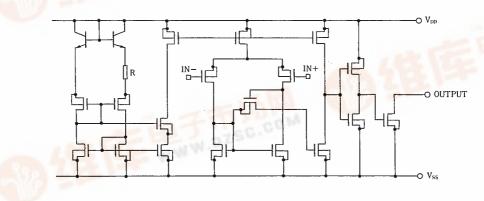


N.IU7114AD



NJU7112AD/AM

PIN CONFIGURATION





DIP/DMP 8 (NJU7112A) DIP/DMP 14 (NJU7114A)

NJU7114AM

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NJU7112A/14A

PARAMETER	SYMBOL	RATINGS	UNIT	
Supply Voltage	VDD	18	v	
Differential Input Voltage	Vid	±18 (Note1)	v	
Input Voltage	Vı	18	v	
Output Voltage	Vo	18	. V	
Output Current	Io	20	mA	
Power Dissipation	Ръ	(DIP8) 500	mW	
		(DIP14) 700		
		(DMP8) 300		
		(DMP14) 300		
Operating Temperature	Topr	0~+70	C	
Storage Temperature	Tstg	-40~+125	°C	

(Note1) If the supply voltage (VDD) is less than 18V, the input voltage must not over the VDD level though 18V is limit specified.

ELECTRICAL CHARACTERISTICS

	SYMBOL	CONDITIONS	NJU7112A			NJU7114A			
PARAMETER			MIN	TYP	MAX	MIN	TYP	MAX	UNIT
Operating Voltage	VDD		3	-	16	3	-	16	v
Input Offset Voltage	Vio	VIC=VICMin (Note2)	-	1.4	12		1.4	12	mV
Input Offset Current	Ію		_	1	—	—	1	-	pА
Input Bias Current	Ів		-	1		-	. 1	-	pA
Input Common Mode Voltage Range	VICM		0	-	3.8	0	-	3.8	v
High Level Output Current	Іон	V _{1D} =+1V, V _{OH} =+5V	—	2	40	-	2	40	nA
Low Level Output Voltage	Vol	VID=+1V, IoL=+6mA	-	0.35	0.40	_	0.35	0.40	v
Common Mode Rejection Ratio	CMR	VIC=VICMin		71	—	1	75	—	dB
Supply Voltage Rejection Ratio	SVR	V _{DD} =5~10V	-	80	-	-	85	_	dB
Operating Current	IDD	No Load, Vo=0V		22	40	—	44	80	μA

(Note2) This condition is available for operating voltage V_{DD}=5~10V and driving voltage is over 4.5V or under 0.3V.

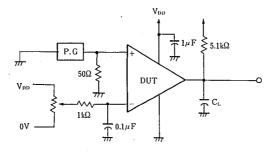
SWITCHING CHARACTERISTICS

(Ta=25°C, VDD=5V f=10kHz, CL=15pF)

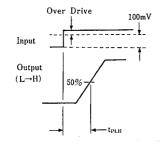
(Ta=25°C, VDD=5V)

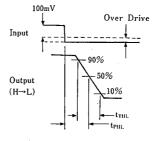
PARAMETER	CYMPOL	SYMBOL CONDITIONS			NJU7112A		NJU7114A			
	SIMBOL			MIN	ТҮР	MAX	MIN	ТҮР	MAX	UNIT
Propagation Delay	tPHL	V _{IC} =0V	Over Drive≃5mV	-	2.7	-	-	2.9		μs
High to Low			TTL level step	—	0.16	-		0.16	-	
Propagation Delay		Vic=0V	Over Drive=5mV	-	1.5	-	—	1.5	_	
Low to High	tPLH .		VIC=0V	TTL level step	-	0.7	-		0.8	-
Output Signal Falling Time	ITHL	Over Drive≍50mV		-	20	-	_	20	_	ns

MEASUREMENT CIRCUIT



TIMING WAVEFORM





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NJU7112A/14A

MEMO

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- Now Janan Padia Ca Std -