DOLBY B.C TYPE NOISE REDUCTION PROCESSOR

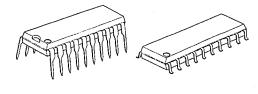
GENERAL DESCRIPTION

The NJM2065A is a low-voltage operating DOLBY B·C-type noise reduction processor IC. The NJM2065A is a suitable to the head-phone stereo and small cassette tape recorder.

FEATURES

- Low Operating Voltage (1.8V~6.0V)
- Minimum External Components
- Good temperature characteristics (4mA)
- Internal Switch of NR ON/OFF ENCODE/DECODE
- Dolby Level Encode Output Level 100mVrms
 - Decode Output Level 100mVrms age Outline DIP20, DMP20
- Package OutlineBipolar Technology

PACKAGE OUTLINE



NJM2065AD

NJM2065AM

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(Ta=25℃)

UNIT

v

mW

m₩ ℃

°C

(V*=3.0V. (note 1). Ta=25℃)

-40~+125

Tsig

ELECTRICAL CHARACTERISTICS

Storage Temperature Range

PARAMETER	\pm SYMBOL	TEST CONDITION							LINUT
PARAMETER	SYMBOL	R/P	NR	f(Hz)	OTTHER CONDITIONS	MIN.	TYP.	MAX.	UNIT
Operating Voltage	Vope					1.8		6	v
Operating Current	l _{cc}	R	OFF		No signal	1.5	3	5	mA
Voltage Gain (REC)	G _{VR}	R	OFF	ik		9	10	11	dB
(MON)	G _{VM}	R	OFF	1 k		9	10	11	dB
Encode Characteristics									
B Type (1)	B-1	R	В	5k	0dB	-1.2	0.3	1.8	dB
В Туре (2)	B-2	R	в	1.4k	-15dB	0.8	2.3	3.8	dB
B Type (3)	B-3	R	в	1k	-25dB	4.2	5.7	7.2	dB
B Type (4)	B-4	R	В	5k	-30dB	6.7	8.2	9.7	dB
B Type (5)	B-5	R	в	5k	-40dB	9.8	10.3	11.8	dB
C Type (1)	C-1	R	с	5k	0dB	-4.3	-2.3	-0.3	dB
C Type (2)	C-2	R	c	ik	-20dB	3.9	5.9	7.9	dB
C Type (3)	C-3	R	С	500	30dB	9.8	11.8	13.8	dB
C Type (4)	C-4	R	С	700	-40dB	14.5	16.5	18.5	dB
C Type (5)	C-5	R	С	5k	-60dB	19.4	20.4	22.4	dB
Decode Characteristics							1		
В Туре	Ba	Р	в	5k	-30dB		-8.2		dB
СТуре	Ca	Р	c	1k	-40dB				dB
Signal Handling	SH	Р	С	1k	THD=1%.V+=1.8V	12	13		dB
S/N Ratio(PIN9)									
C Type	SNc	R	c			60	62		dB
В Туре	SNB	R	в		$Rg=5.6k\Omega$		71		dB
NR OFF	SNo	R	OFF		CCIR/ARM	1	78	1	dB
Total Harmonic Distortion		i i					1		
NR OFF (REC)	THD1	R	OFF	1 k	0dB		0.03	0.2	%
NR OFF (MON)	THD2	Р	OFF	lk	0dB		0.03		%
B Type (REC)	THD3	R	в	1k	0dB		0.05		%
B Type (MON)	THD4	P	В	Ik	0dB		0.05		%
C Type (REC)	THD5	R	c	lik	0dB		0.09	0.4	%
C Type (MON)	THD6	P	Ċ	1k	0dB		0.08		%
Control Voltage			1						
REC	VaR	Voltage between both terminals of				0		0.2	v
PLAY	V _{etP}	$\int 10k\Omega$ register connected to pin 20				1.6		V*	l v
	· cır	10	V77 JEBIS	ner com	Receired for prill 20				
NR OFF	Ven						open		v
В Туре	VetB	Voltage between both terminals of				1.6		V*	V
21 °	1	8.2	kΩ regi	ster con	nected to pin I		l		
С Туре	V _{ciC}					0		0.2	v

(note 1): Definition of 0dB DOLBY LEVEL.

Encode Mode: On NR-OFF condition. put 400 Hz input signal to P1N19, and adjust the voltage of P1N15 to 31.6mV, At this condition the voltage of P1N9 is about 100mV which is 0dB.

Decode Mode: On NR-OFF condition, put 400Hz input signal, to PIN19, and adjust the voltage of PIN15 to 31.6mV. At this condition the voltage of PIN10 is about 100mV which is 0dB.

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MEMO

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