NJM2063A

DOLBY B-TYPE NOISE REDUCTION PROCESSOR

GENERAL DESCRIPTION

The NJM2063A is the dual low-voltage operating DOLBY B-type noise reduction processor IC. The NJM2036A operates as encode or decode mode and is suitable to the headphone stereo and small cassette tape recorder.

(1.8V~6V)

FEATURES

- Operating Voltage
 - 16 pins, Dual Circuit
- Minimum External Components
- Good temperature characteristics (4mA)
- Internal NR ON/OFF and Mode SW
- Excellent Signal Handing characteristics
- Package Outline DIP16, DMP16
- Bipolar Technology

ABSOLUTE MAXIMUM RATINGS

PACKAGE OUTLINE



NJM 2063 AD

NJM 2063 AM

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> > (Ta=25℃)

PARAMETER	SYMBOL	RATINGS	UNIT
Supply Voltage	V*	6.5	v
Power Dissipation	PD	(DIP16) 700	mW
		(DMP16) 350	mW
Operating Temperature Range	Topr	-25~+75	C
Storage Temperature Range	Tstg	-55~+150	C

ELECTRICAL CHARACTERISTICS

(V⁺=3.0V. Dolby Level=100mVrms=0dB, Ta=25℃)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Operating Voltage	V+	_	1.8	3.0	6.0	v
Operating Current	Icc	NR ON (ENCODE)		8.0	15.0	mA
Voltage Gain	Gv2-3 / Gv15-14	f=1kHz, 0dB	9.0	10.0	11.0	dB
	Gv24 / Gv15-t3		9.0	10.0	11.0	dB
Total Harmonic Distortion	THD	f=1kHz, ENCODE	—	0.2	0.6	%
Signal Handing		V+=1.8V, f=1kHz, THD<1%	12.0			dB
S/N Ratio	S/N	Rg=5.6kΩ CCIR/ARM FILTER Encode Decode NR-OFF	64.0	72.0 83.0 74.0		dB
N.R Encode Boost 20 log $\frac{V_{3(14)}(N.R \text{ ON})}{V_{3(14)}(N.R \text{ OFF})}$	ENC-1.4k ENC-1.4k ENC-5k ENC-5k ENC-10k ENC-10k	$f=1.4kHz, V_{3(14)}(N.R OFF)=-20dB$ $f=1.4kHz, V_{3(14)}(N.R OFF)=-30dB$ $f=5kHz, V_{3(14)}(N.R OFF)=-20dB$ $f=5kHz, V_{3(14)}(N.R OFF)=-30dB$ $f=10kHz, V_{3(14)}(N.R OFF)=0dB$ $f=10kHz, V_{3(14)}(N.R OFF)=-40dB$	2.9 6.0 1.7 6.7 -1.1 9.8	4.4 7.5 3.2 8.2 0.4 10.4	5.9 9.0 4.7 9.7 1.9 11.8	dB dB dB dB dB dB dB

-5-21

5



MEMO

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