

AN7062N

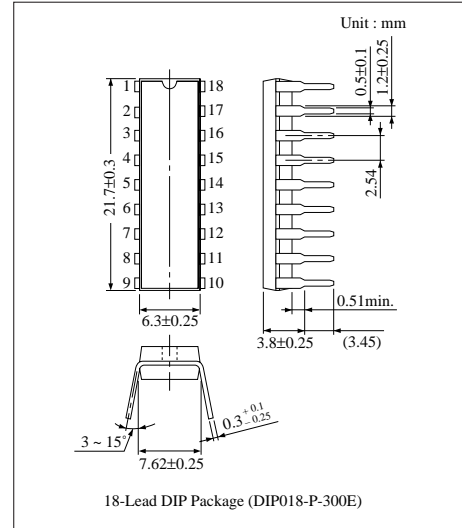
High Voltage Input Amplifier Circuit for Hi-Fi Power Amplifier

■ Overview

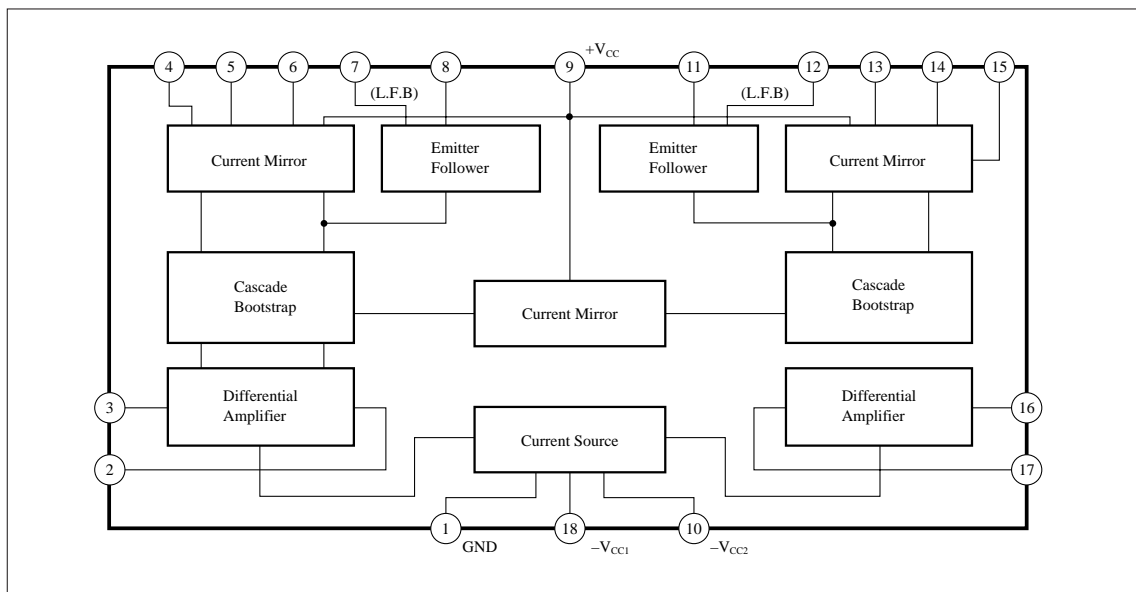
The AN7062N is a high voltage integrated circuit designed for pre-driver of 60W-class Hi-Fi audio amp. Stereo operation is enabled due to two amplifiers built-in.

■ Features

- High voltage
- Low noise : $V_{ni} = 2.5\mu\text{V}$ (typ.)
- Low distortion : THD = 0.003% (typ.)
- Good channel separation
- Wide operating supply voltage range



■ Block Diagram

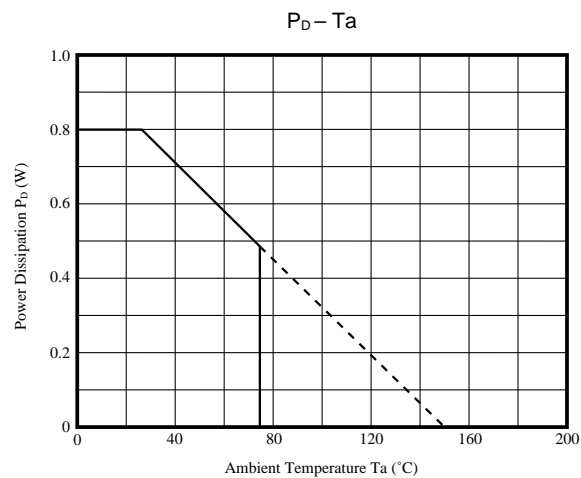


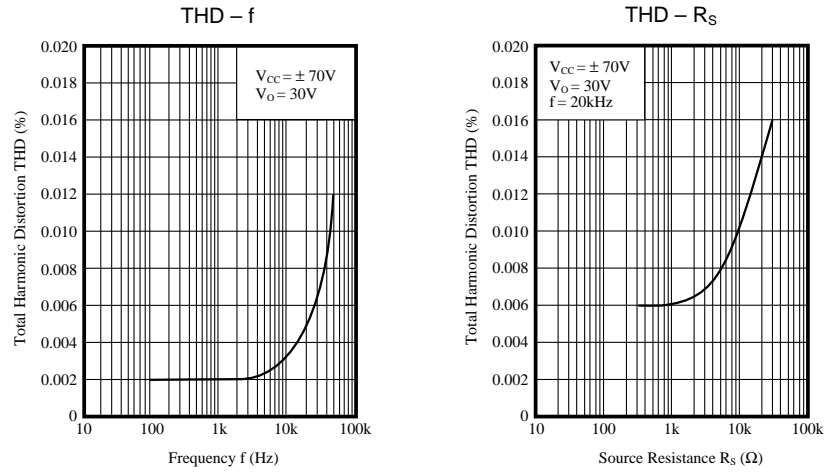
■ Absolute Maximum Ratings (Ta= 25°C)

Parameter	Symbol	Rating	Unit
Supply Voltage	+ V _{CC}	+ 74	V
Supply Voltage	- V _{CC}	- 16	V
Supply Current	I _{CC}	10	mA
Power Dissipation	P _D	800	mW
Operating Ambient Temperature	T _{opr}	- 25 ~ + 75	°C
Storage Temperature	T _{stg}	- 55 ~ + 150	°C

■ Electrical Characteristics (V_{CC} = ± 70V, f = 20kHz, Ta= 25°C)

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Plus Side Supply Current	I _{tot-1}	V _i = 0mV	2.5	5	7.5	mA
Minus Side Supply Current	I _{tot-2}	V _i = 0mV	1.5	2.8	4.5	mA
Output Noise Voltage	V _{no1}	V _i = 0mV, R _g = 0Ω, DIN - A Filter, f = 20Hz ~ 20kHz, -12dB/OCT	—	0.14	1	mV
Output Noise Voltage	V _{no2}	V _i = 0mV, R _g = 0Ω	—	0.5	1.5	mV
Total Harmonic Distortion	THD	V _O = 30V	—	0.003	0.01	%
Open Circuit Voltage Gain	G _{VO}	V _O = 30V	—	95	—	dB





■ Pin Descriptions

Pin No.	Pin Name	Pin No.	Pin Name
1	GND	10	$-V_{CC2}$
2	Input (Ch.1)	11	Output (Ch.2)
3	N.F.B (Ch.1)	12	Linear Feedback (Ch.2)
4	Phase Compensation (Ch.1)	13	Linear Feedback (Ch.2)
5	Phase Compensation (Ch.1)	14	Phase Compensation (Ch.2)
6	Linear Feedback (Ch.1)	15	Phase Compensation (Ch.2)
7	Linear Feedback (Ch.1)	16	N.F.B (Ch.2)
8	Output (Ch.1)	17	Input (Ch.2)
9	$+V_{CC}$	18	$-V_{CC1}$



LittleDiode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

LittleDiode.com

Looking forward to providing you with the best possible service.