AN7072N

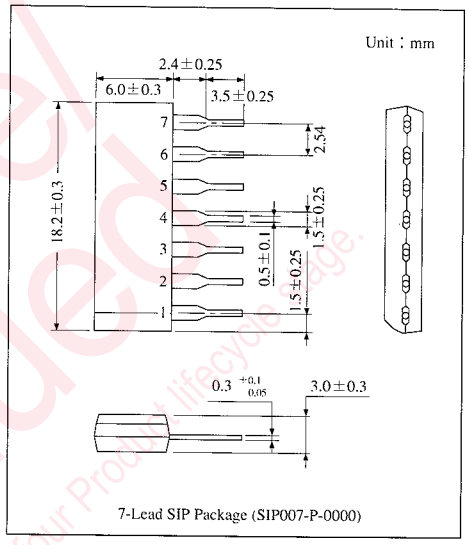
High Voltage Audio Amplifier Muting Circuit

■ Overview

The AN7072N is a high voltage integrated circuit designed for muting and protection of 60W-class Hi-Fi audio power amplifier, which enables superior Hi-Fi amplifier design in joint use with a power amplifier–the AN7062N.

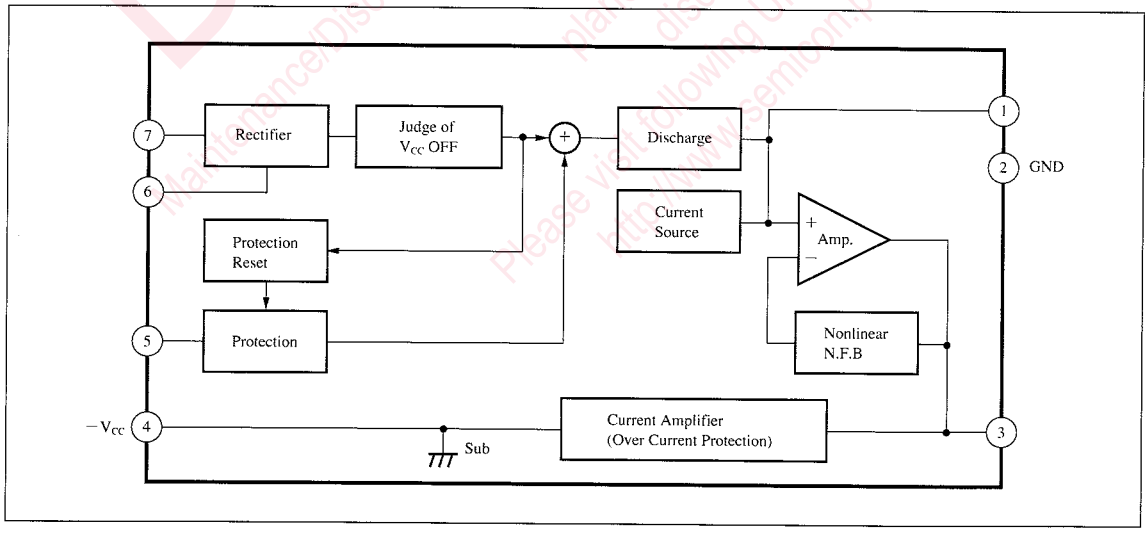
■ Features

- Built-in muting circuit during power ON/OFF
- Low shock noise when power is switched ON and OFF
- Built-in circuit for muting when speaker short-circuits
- Built-in over-current protection circuit
- High voltage



7-Lead SIP Package (SIP007-P-0000)

■ Block Diagram



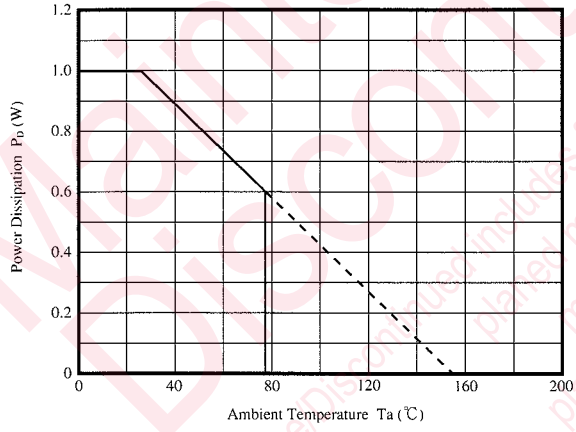
■ Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Rating	Unit
Supply Voltage	V_{CC}	74	V
Supply Current	I_{CC}	10	mA
Pin ③ Current	I_3	100	mA
Pin ⑤ Current	I_5	2	mA
Power Dissipation	P_D	1000	mW
Operating Ambient Temperature	T_{opr}	−25 ~ +75	℃
Storage Temperature	T_{stg}	−55 ~ +150	℃

■ Electrical Characteristics (V_{CC}=74V, Ta=25℃)

Parameter	Symbol	Condition	min.	typ.	max.	Unit
Supply Current (Normal)	I_{CC}		3.5	5	6.5	mA
Supply Current (Muting)	$I_{CC\ (Mute)}$		3.5	5	6.5	mA
Output Voltage (Muting)	$V_{O\ (Mute)}$		—	—	1	V
Output Voltage (Normal)	V_O		65	—	—	V
Output Voltage (Speaker Short-circuit)	$V_{O\ (sp-short)}$		—	—	1	V

P_D—Ta



■ Pin Descriptions

Pin No.	Pin Name
1	Muting
2	GND
3	Output
4	$-V_{CC}$
5	Load Short Detection
6	Output Reset
7	AC Input

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