

Part No.	AN17825A
Package Code No.	*DIP016-P-0300P

Electrónica S.A. de C.V.

SEMICONDUCTOR COMPANY
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

Contents

■ Overview	3
■ Features	3
■ Applications	3
■ Package	3
■ Type	3
■ Application Circuit Example	4
■ Block Diagram	5
■ Pin Descriptions	6
■ Absolute Maximum Ratings	7
■ Operating Supply Voltage Range	7

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A dual channel OTL audio power amplifier IC

■ Overview

AN17825A is a monolithic integrated circuit designed for $1.7W \times 2$ (8Ω). It is a dual channel OTL IC suitable for operation in TV application.

■ Features

- Few external components-no Boucherot cells (output C, R) and no negative feedback capacitors
- Built-in thermal protection circuit
- Built-in Mute circuit
- Built-in standby circuit

■ Applications

- IC for audio applications

■ Package

- 16-pin plastic dual inline package (DIP type)

■ Type

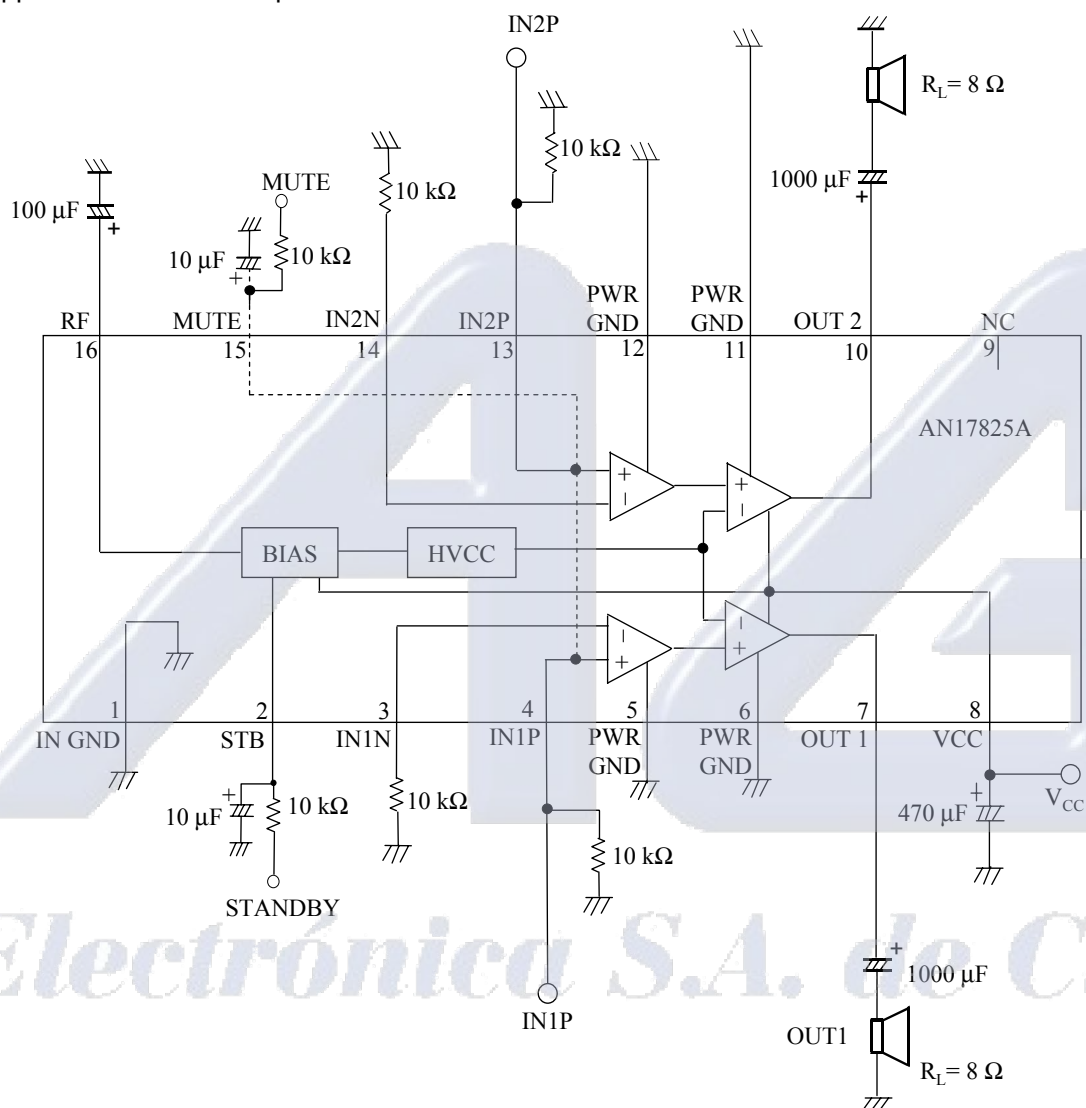
- Silicon monolithic bipolar IC

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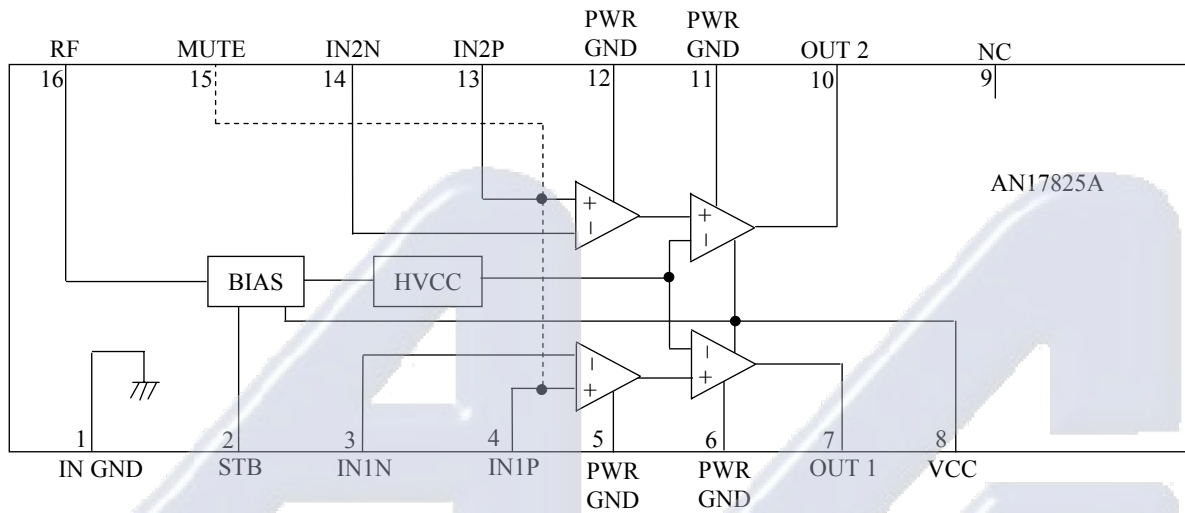
■ Application Circuit Example



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■ Block Diagram

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■ Pin Descriptions

Pin No.	Pin name	Type	Description
1	IN GND	Ground	Ground
2	STB	Control voltage	Standby
3	IN1N	Input	Negative input
4	IN1P	Input	Positive input
5	PWR GND	Ground	Ground
6	PWR GND	Ground	Ground
7	OUT 1	Output	Channel 1 output
8	VCC	Power supply	11 V power supply
9	NC	Not connected	Not connected
10	OUT 2	Output	Channel2 output
11	PWR GND	Ground	Ground
12	PWR GND	Ground	Ground
13	IN2P	Input	Positive input
14	IN2N	Input	Negative input
15	MUTE	Control voltage	Mute
16	RF	Reference voltage	Ripple filter

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■ Absolute Maximum Ratings

A No.	Parameter	Symbol	Rating	Unit	Note
1	Supply voltage	V_{CC}	14.9	V	*1
2	Supply current	I_{CC}	1	A	
3	Power dissipation	P_D	0.728	W	*2
4	Operating ambient temperature	T_{opr}	-20 to +75	°C	*3
5	Storage temperature	T_{stg}	-55 to +150	°C	*3

Note) *1: The values under the condition not exceeding the above absolute maximum ratings and the power dissipation.

*2: The power dissipation shown is the value at $T_a = 75^\circ\text{C}$ for the independent IC package without a heat sink.

*3: Except for the operating ambient temperature and storage temperature, all ratings are for $T_a = 25^\circ\text{C}$.

■ Operating supply voltage range

Parameter	Symbol	Range	Unit	Note
Supply voltage range	$+V_{CC}$	6.5 to 14.5	V	

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