

DESCRIPTION

The PT2369 is an audio amplifier design for the low voltage (5V) application purpose, built-in stereo 2.6W Class-AB power amplifier with 32 steps I²C controlled volume, it also provides 4 sources selector, and unique noise suppressor circuit eliminates unpleasant pop noise during power or shutdown on/off, and provides SE/BTL selection for headphone connection.

APPLICATIONS

- Portable DVD player
- Portable audio system
- Docking speaker system
- Flat panel monitor
- Other audio applications

FEATURES

- Supply voltage: 3~6V
- 4 Stereo inputs
- 32 steps, I²C controlled volume from -40dB to +26dB (BTL)
- 2.6W x 2 Class-AB Power Amplifier (VDD=5V, RL=4Ω, THD=10%)
- BTL and SE output selectable
- Pop-Free circuitry eliminates unpleasant noises during power ON/OFF and changing the input source.
- Low power shutdown
- Over Temperature Protection
- Over Current Protection
- TSSOP 24 pin package with thermal pad



BLOCK DIAGRAM



APPLICATION CIRCUIT



ORDER INFORMATION

Part Number	Package Type	Top Code
PT2369-HT	24 pins, HTSSOP, 173mil	PT2369-HT



PT2369

PIN CONFIGURATION

1	IN4L	SE/BTL	24
2	IN3L	SD	23
3	IN2L	LVDD	22
4	IN1L	LOUT-	21
5	AVDD	LGND	20
6	BYPASS	LOUT+	19
7	AGND	ROUT+	18
8	MUTE	RGND	17
9	IN1R	ROUT-	16
10	IN2R	RVDD	15
11	IN3R	SCL	14
12	IN4R	SDA	13
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PIN DESCRIPTION

Pin Name	I/O	Description	Pin No.
IN4L		Left channel positive input 4	1
IN3L		Left channel positive input 3	2
IN2L		Left channel positive input 2	3
IN1L		Left channel positive input 1	4
AVDD	Р	Power input for volume control	5
BYPASS		Internal 1/2 reference bypassing	6
AGND	Р	Ground for volume control	7
MUTE		Mute Input, H=muted, L=normal (internal pull down)	8
IN1R	I	Right channel positive input 1	9
IN2R		Right channel positive input 2	10
IN3R	I	Right channel positive input 3	11
IN4R		Right channel positive input 4	12
SDA		I2C data input	13
SCL		I2C clock input	14
RVDD	I	Right channel power input	15
ROUT-	0	Right channel negative output	16
RGND	Р	Power GND	17
ROUT+	0	Right channel positive output	18
LOUT+	0	Left channel positive output	19
LGND	Р	Power GND	20
LOUT-	0	Left channel negative output	21
LVDD	Р	Left channel power input	22
SD	I	Shutdown, L=shutdown, H=normal operate.	23
SE/BTL		L=BTL (speaker out), H=SE (Headphone out)	24



IMPORTANT NOTICE

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Princeton Technology Corp. 2F, 233-1, Baociao Road, Sindian, Taipei 23145, Taiwan Tel: 886-2-66296288 Fax: 886-2-29174598 http://www.princeton.com.tw