

75W D类音频功放

75W Class D Mono Amplifier

・输出功率 75W (VDD=24V, RL=4Ω, THI 75W (VDD=32V, RL=8Ω, THI ・単电源系统, 3V-34V宽电压 ・低静态电流: 9mA (VDD=2	D+N=10%) 玉输入范围
 • ACF防破音功能可选 • MUTE功能 • 功率限幅器功能 • 扩频功能,免电感滤波 • 模拟差分/单端输入 • 保护功能:过流/过热/欠压; • 无铅无卤封装,ETSSOP28 	异常和短路保护
・条形音箱 ・便携式音箱 ・拉杆音箱	・无线智能音箱 ・消费类音频应用 ・LCD电视/监视器
 the output voltage level below the supply rail Spread Switching Frequency, Inductor-free Operation Differential / Single-ended Analog Input Integrated Self-protection Circuits Including, Undervoltage, Overtemperature, and Overcurrent LF and HF Package of ETSSOP28 APPLICATIONS Sound Bars Wireless Speakers Consumer Audio Applications TVs/Monitors 	

DESCRIPTION

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HT337 is a mono efficient, Class D audio amplifier. The device can drive a speaker up to 75W/4 Ω at VDD = 24V.

Advanced EMI Suppression enables the use of inexpensive ferrite bead filters while meeting EMC requirements for system cost reduction.

HT337 is protected with Undervoltage, Overtemperature, and Overcurrent protection.

HT337 features Anti-Clipping Function (ACF) which detects output signal clip due to the over input signal and suppresses the output signal clip automatically. Also, the ACF function can adapt the output clip caused by power supply voltage down with battery. It can significantly improve the sound quality, creating a very comfortable musical enjoyment, and to protect the speakers from overload damage. HT337B是一款高效D类音频功率放大器。 24V供电、THD+N=10%条件下,能够持续提供 75W/4Ω功率输出。

HT337具有先进的扩频功能来抑制EMI, 使用价格低廉且小体积铁氧体磁珠可满足 EMC要求。

此外,**HT337**内置关断功能使待机电流最 小化,还集成了短路保护、热保护和电源欠压 异常保护等功能。

HT337具有防削顶失真(ACF)输出控制 功能,可检测并抑制由于输入音乐、语音信号 幅度过大所引起的输出信号削顶失真(破音), 也能自适应地防止在电源电压下降所造成的输 出削顶,显著提高音质,创造非常舒适的听音 享受,并保护扬声器免受过载损坏。



TYPICAL APPLICATION





ORDERING INFORMATION

Part Number	Package Type	Marking	Operating Temperature Range	Shipping Package / MOQ
HT337MTER	ETSSOP28 (MTE)	HT337 YYYMAAB ¹	-40℃~85℃	Tape and Reel (R) / 3000pcs

Part Number



Production Tracking Code





TERMINAL CONFIGURATION



Top View

■ TERMINAL FUNCTION

Terminal No.	Name	I/O ¹	Description	
1	BSP	BST	Connection point for the OUTP bootstrap capacitor, which is used to create a power supply for the high-side gate drive for OUTP	
2,3,12,13	PVDD	Р	Power Supply for power stage	
4,5	OUTP	0	Positive pin for differential speaker amplifier output	
6,7,8,9	PGND	G	Power Ground	
10,11	OUTN	0	Negative pin for differential speaker amplifier output	
14	BSN	BST	Connection point for the OUTN bootstrap capacitor, which is used to create a power supply for the high-side gate drive for OUTN	
15	ACF	0	ACF mode and Mute mode selection terminal	
16	PLIMT	Ι	Sets the maximum output voltage before clipping (Limiter Level) for PLIMT function.	
17	CTRL	Ι	Working mode selection terminal	
18	INN	Ι	Negative input terminal	
19	INP	Ι	Positive input terminal	
20	GAIN	Ι	Gain selection terminal	
21	AGND	G	Analog ground	
22,23,27,28	NC	-	No connection.	
24,25	GVDD	0	Internal LDO output, connect 1uF to GND	
26	AVCC	Р	Analog power supply	
EP	-	G	Provides thermal connection from the device to the board. A matching ground pad must be provided on the PCB and the device connected to it via solder. 散热PAD	





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