LM4862 CMOS IC

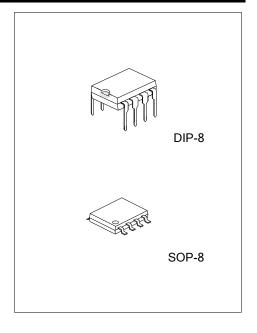
AUDIO POWER AMPLIFIER WITH SHUTDOWN MODE

DESCRIPTION

The UTC LM4862 is a built in bridge-connected form audio amplifier. In normal operation, it can deliver 500 mW (typ.) continuous power. The output load of the UTC LM4862 should be 8Ω , the supply voltage should be 5V, and the THD is as low as 1%.

As the most popular amplifiers, LM4862 is also designed to be able to provide high quality output power with less external components, such as the output capacitors for coupling, bootstrap capacitors, or snobbery networks.

In applications, the UTC LM4862 can be specially used as an ideal in low-power portable systems, for example, portable computers, desktop computers, and low voltage audio systems, etc.

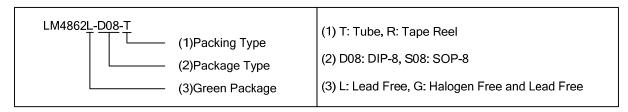


FEATURES

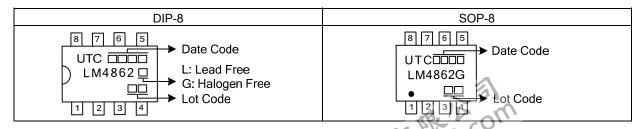
- * Stable Unity Gain
- * Gain Configuration can be set by External Components

ORDERING INFORMATION

Ordering Number		Doolsono	Dooking	
Lead Free	Halogen Free	Package	Packing	
LM4862L-D08-T	LM4862G-D08-T	DIP-8	Tube	
-	LM4862G-S08-R	SOP-8	Tape Reel	

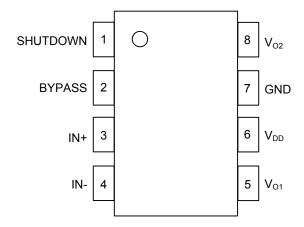


MARKING



www.unisonic.com.tw 1 of 4 QW-R502-314.C

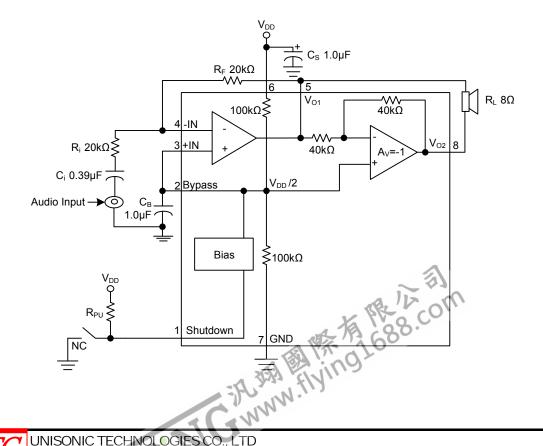
PIN CONFIGURATION



■ PIN DESCRIPTION

PIN NO	PIN NAME	DESCRIPTION
1	SHUTDOWN	Shutdown mode control input, high active
2	BYPASS	Connect to internal voltage divider for middle supply bias
3	IN+	Non-inverting power input pin
4	IN-	Inverting power input pin
5	V _o 1	Output power pin 1
6	V_{DD}	Power supply
7	GND	Ground
8	V _O 2	Output power pin 2

■ BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATING (T_A=25°C unless otherwise specified.)

PARAMETER		SYMBOL	RATINGS	UNIT
Supply Voltage		V_{DD}	6.0	V
Input Voltage		V_{IN}	-0.3 ~ +(0.3+V _{DD})	V
Danier Diagination	DIP-8	P _D	500	mW
Power Dissipation	SOP-8		300	mW
Infrared (15 sec.)			220	Ç
Junction Temperature		TJ	+150	°C
Storage Temperature		T _{STG}	-65 ~ +150	Ç

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS (V_{CC}=5V, f=1kHz, T_A=25°C unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V_{DD}		2.0		5.5	V
Output Offset Voltage	Vos	V _{IN} =0V		5.0	50	mV
Quiescent Power Supply Current	I_{DD}	V _{IN} =0V, I _O =0A		6.5	12.0	mA
Shutdown Current	I _{SD}	V _{PIN1} =V _{DD}		0.6		μΑ
Output Power	Po	THD=1%, f=1kHz, R_L =8 Ω		500		mW
		THD=10%, f=1kHz, R_L =8 Ω		800		mW
Total Harmonic Distortion	THD	f=1kHz, R_L =8 Ω , Po = 500mW		0.5		%
Power Supply Rejection Ratio	PSRR	V _{CC} =4.9V ~ 5.1V		60		dB

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