UTC TDA2822H LINEAR INTEGRATED CIRCUIT

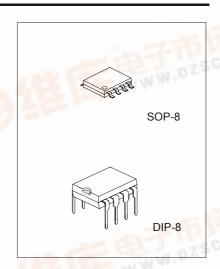
DUAL LOW VOLTAGE POWER AMPLIFIER

DESCRIPTION

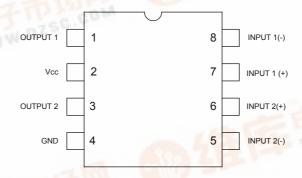
The UTC TDA2822H is a monolithic integrated audio amplifier in a 8-Pin plastic dual in line package. It is designed for portable cassette players and radios.

FEATURES

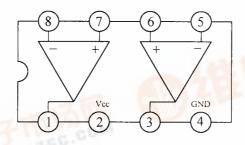
- WWW.DZSC.COM *Wide operating supply voltage:Vcc=1.8V~ 6V.
- *Low crossover distortion.
- *Low quiescent circuit current.
- *Bridge/stereo configuration.



PIN CONFIGURATIONS



WWW.DZSC.COM **BLOCK DIAGRAM**



UTC UNISONIC TECHNOLOGIES CO., LTD.

QW-R107-016,B



UTCTDA2822H LINEAR INTEGRATED CIRCUIT

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

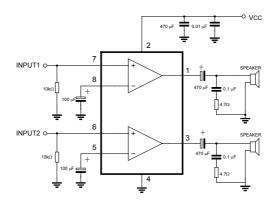
PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	Vcc	15	V
Output Peak Current	Io(peak)	1	Α
Power Dissipation DIP-8	PD	1.0 (T _{AMB} =50°C) 1.4 (T _{CASE} =50°C)	W
SOP-8		0.5 (T _{AMB} =50°C)	
Operating Temperature	TJ	+150	°C
Storage Temperature	Tsta	-40 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C, Vrc=4.5V, BTL parameter, unless otherwise specified)

TELECTRICAL CHARACTERIO TICO (18-25°C, VCC-4.5V, BTL parameter, unless otherwise specified)										
PARAMETER	SYMBOL	TEST CONDITIONS			MIN	TYP	MAX	UNIT		
Operating Supply Voltage	Vcc				1.8		6	V		
Quiescent Circuit Current	Iccq	R _L =∞				6	9	mA		
Output Offset Voltage	Vos	R _L =8Ω					±50	mV		
Input Base Current	Ι _Β					100		nA		
Output Power	Po	f=1kHz, THD=10%	R _L =32Ω	V _{CC} =6V	300	320		mW		
				V _{CC} =4.5V		200				
				V _{CC} =3V	50	65				
				V _{CC} =2V		8				
			$R_L=16\Omega$ $R_L=8\Omega$	V _{CC} =6V		600				
				V _{CC} =3V		120				
				V_{CC} =4.5 V		700				
				V _{CC} =3V		220				
			$R_L=4\Omega$	V _{CC} =3V	200	350				
Total Harmonic Distortion	THD	Po=0.5W, RL=8Ω, Po=1kHz				0.2		%		
Closed Loop Voltage Gain	AVF	f=1kHz				39		dB		
Input Resistance	Zin	f=1kHz			100			kΩ		
Total Input Noise	e_N	Rs=10kΩ B=22Hz~22KHz			3		μV			
Supply Voltage Rejection	SVR	f=100Hz				40		dB		
Power Bandwidth	BWp	R _L =8Ω, Po=1W				120		kHz		

APPLICATION CIRCUIT

Fig. 1: STEREO



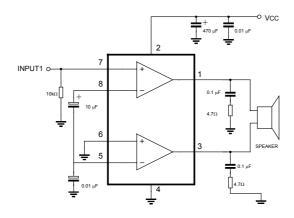
UTC UNISONIC TECHNOLOGIES CO., LTD.

QW-R107-016,B



UTCTDA2822H LINEAR INTEGRATED CIRCUIT

Fig. 2: BRIDGE



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

UTC UNISONIC TECHNOLOGIES CO., LTD. 3

QW-R107-016,B

