

UTC TDA2822H LINEAR INTEGRATED CIRCUIT

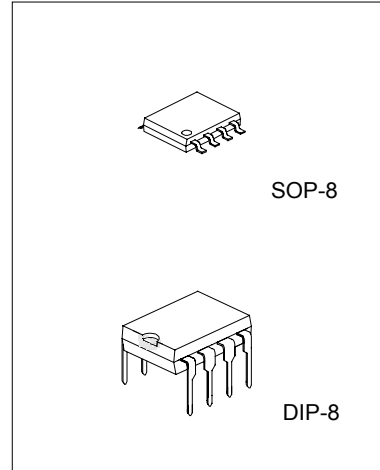
DUAL LOW VOLTAGE POWER AMPLIFIER

DESCRIPTION

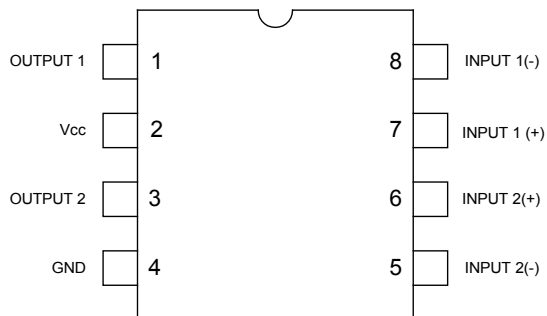
The UTC TDA2822H is a monolithic integrated audio amplifier in a 8-Pin plastic dual in line package. It is designed for portable cassette players and radios.

FEATURES

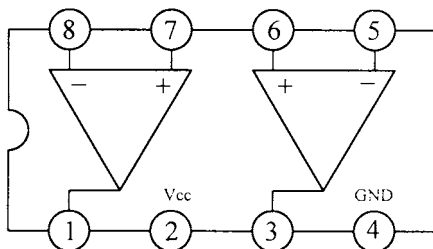
- *Wide operating supply voltage: $V_{CC}=1.8V\sim 6V$.
- *Low crossover distortion.
- *Low quiescent circuit current.
- *Bridge/stereo configuration.



PIN CONFIGURATIONS



BLOCK DIAGRAM



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ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

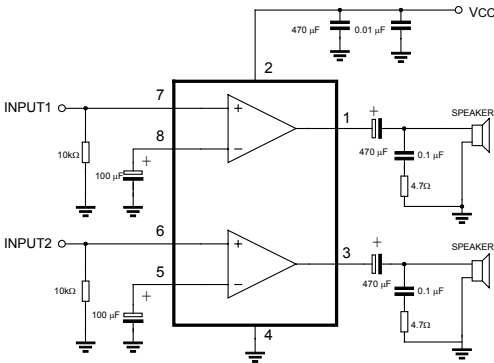
PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V _{CC}	15	V
Output Peak Current	I _{o(peak)}	1	A
Power Dissipation	P _D	1.0 (T _{AMB} =50°C)	W
		1.4 (T _{CASE} =50°C)	
		0.5 (T _{AMB} =50°C)	
Operating Temperature	T _J	+150	°C
Storage Temperature	T _{stg}	-40 ~ +150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C, V_{CC}=4.5V, BTL parameter, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS			MIN	TYP	MAX	UNIT
Operating Supply Voltage	V _{CC}				1.8		6	V
Quiescent Circuit Current	I _{CCQ}	R _L =∞				6	9	mA
Output Offset Voltage	V _{OS}	R _L =8Ω					±50	mV
Input Base Current	I _B					100		nA
Output Power	P _O	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 =16Ω	V _{CC} =6V		600		
				V _{CC} =3V		120		
				V _{CC} =4.5V		700		
			R _L =8Ω	V _{CC} =3V		220		
				V _{CC} =4.5V		700		
				V _{CC} =3V	200	350		
Total Harmonic Distortion	THD	P _O =0.5W, R _L =8Ω, P _O =1kHz				0.2		%
Closed Loop Voltage Gain	A _{VF}	f=1kHz				39		dB
Input Resistance	Z _{in}	f=1kHz			100			kΩ
Total Input Noise	e _N	R _S =10kΩ	B=22Hz~22KHz			3		μV
Supply Voltage Rejection	SVR	f=100Hz				40		dB
Power Bandwidth	BW _p	R _L =8Ω, P _O =1W				120		kHz

APPLICATION CIRCUIT

Fig. 1: STEREO



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Fig. 2: BRIDGE

