

# UTC TDA2822H LINEAR INTEGRATED CIRCUIT

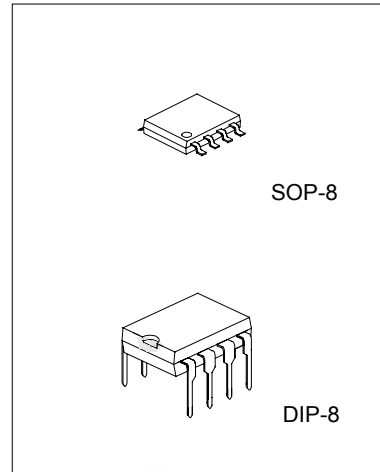
## DUAL LOW VOLTAGE POWER AMPLIFIER

### DESCRIPTION

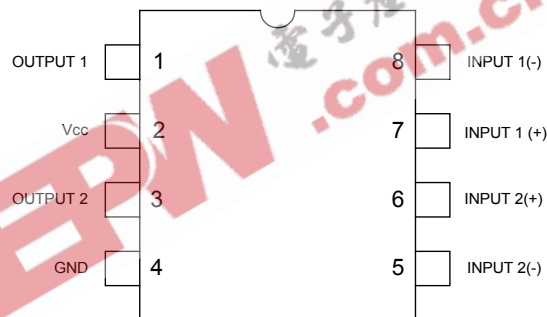
The UTC TDA2822H is a monolithic integrated audio amplifier in a 8-Pin plastic dual in line package. It is designed for portable cassette players and radios.

### FEATURES

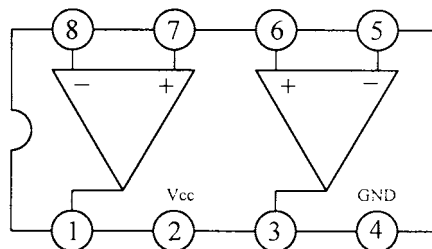
- \*Wide operating supply voltage:  $V_{cc}=1.8V\sim 6V$ .
- \*Low crossover distortion.
- \*Low quiescent circuit current.
- \*Bridge/stereo configuration.



### PIN CONFIGURATIONS



### BLOCK DIAGRAM



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## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

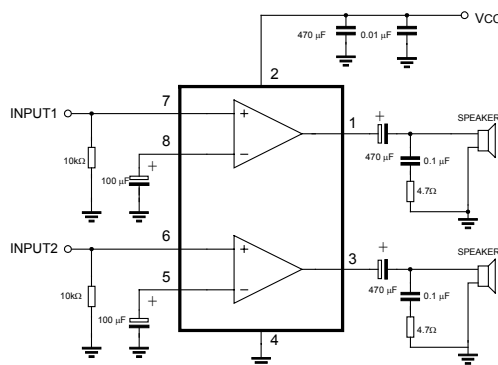
PARAMETER	SYMBOL	VALUE	UNIT
Supply Voltage	V <sub>CC</sub>	15	V
Output Peak Current	I <sub>o</sub> (peak)	1	A
Power Dissipation	P <sub>D</sub>	1.0 (T <sub>AMB</sub> =50°C)	W
		1.4 (T <sub>CASE</sub> =50°C)	
		0.5 (T <sub>AMB</sub> =50°C)	
Operating Temperature	T <sub>J</sub>	+150	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +150	°C

## ELECTRICAL CHARACTERISTICS (Ta=25°C, V<sub>CC</sub>=4.5V, BTL parameter, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT		
Operating Supply Voltage	V <sub>CC</sub>		1.8		6	V		
Quiescent Circuit Current	I <sub>CCQ</sub>	R <sub>L</sub> =∞		6	9	mA		
Output Offset Voltage	V <sub>OS</sub>	R <sub>L</sub> =8Ω			±50	mV		
Input Base Current	I <sub>B</sub>			100		nA		
Output Power	P <sub>O</sub>	f=1kHz, THD=10%	R <sub>L</sub> =32Ω	V <sub>CC</sub> =6V	300	320	mW	
				V <sub>CC</sub> =4.5V		200		
				V <sub>CC</sub> =3V	50	65		
			V <sub>CC</sub> =2V		8			
			R <sub>L</sub> =16Ω	V <sub>CC</sub> =6V		600		
				V <sub>CC</sub> =3V		120		
				V <sub>CC</sub> =4.5V		700		
			R <sub>L</sub> =8Ω	V <sub>CC</sub> =3V		220		
				V <sub>CC</sub> =3V	200	350		
			Total Harmonic Distortion	THD	P <sub>O</sub> =0.5W, R <sub>L</sub> =8Ω, P <sub>O</sub> =1kHz			0.2
Closed Loop Voltage Gain	Avf	f=1kHz		39		dB		
Input Resistance	Z <sub>in</sub>	f=1kHz	100			kΩ		
Total Input Noise	e <sub>N</sub>	R <sub>S</sub> =10kΩ   B=22Hz~22KHz		3		μV		
Supply Voltage Rejection	SVR	f=100Hz		40		dB		
Power Bandwidth	BW <sub>p</sub>	R <sub>L</sub> =8Ω, P <sub>O</sub> =1W		120		kHz		

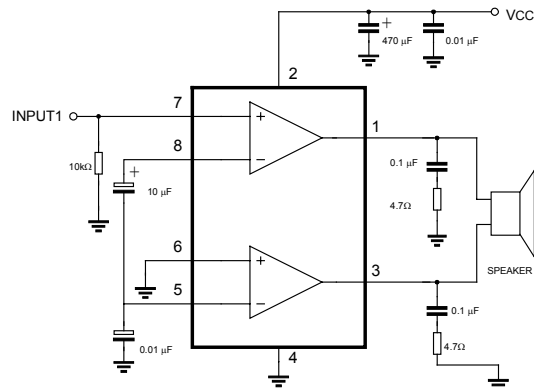
## APPLICATION CIRCUIT

Fig. 1: STEREO



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Fig. 2: BRIDGE



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