

## **TBA810P**

# **7W AUDIO AMPLIFIER**

NOT FOR NEW DESIGN

## The TBS810P is an improvement of TBA810S.

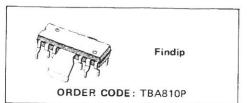
It offers:

- Higher output power (R  $_{L}~=4\Omega$  and  $2\Omega)$
- Low noise
- Polarity inversion protection
- Fortuitous open ground protection
- High supply voltage rejection (40dB min.)

The TBA810P is a monolithic integrated circuit in a 12-lead quad in-line plastic package, intended for use as a low frequency class B amplifier.

The TBA810P provides 7W output power at 16V/4 $\Omega;$  7W at 14.4/2  $\Omega.$ 

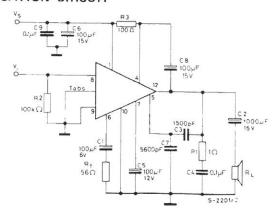
It gives high output current (up to 3A), high efficiency (75% at 60W output) very low harmonic and crossover distortion. The circuit is provided with a thermal limiting circuit and can withstand a short-circuit on the load for supply voltages up to 15V.



## ABSOLUTE MAXIMUM RATINGS

$V_s$	Supply voltage	20	
10	Output peak current (non repetitive)	20	V
1		4	Α
0	Output peak current (repetitive)	3	Α
P <sub>tot</sub>	Power dissipation at $T_{amb} \leq 80^{\circ}C$	1	W
T -	T <sub>tab</sub> ≤90°C	5	W
I <sub>stg</sub> , T <sub>j</sub>	Storage and junction temperature	-40 to 150	°C

#### TEST AND APPLICATION CIRCUIT



June 1988

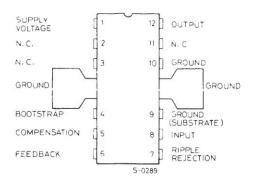
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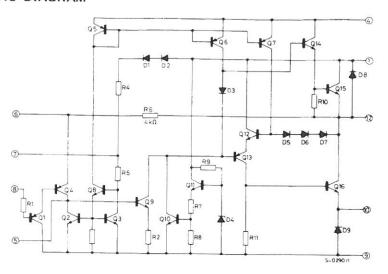
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#### CONNECTION DIAGRAM

(Top view)



## SCHEMATIC DIAGRAM



## THERMAL DATA

R <sub>th j-tab</sub>	Thermal resistance junction-tab Thermal resistance junction-ambient	max	12	°C/W
R <sub>th j-amb</sub>		max	70*	°C/W
* Obtained	with tabs soldered to printed circuit with minimized copper	r area		

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SGS-THOMSON

WIGHT RANGE

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