

Fig. 15

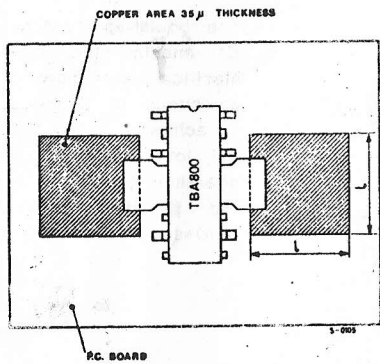


Fig. 16

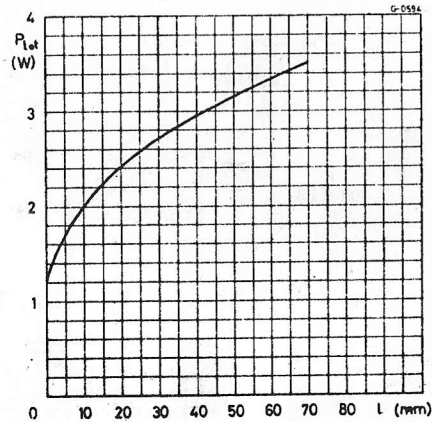
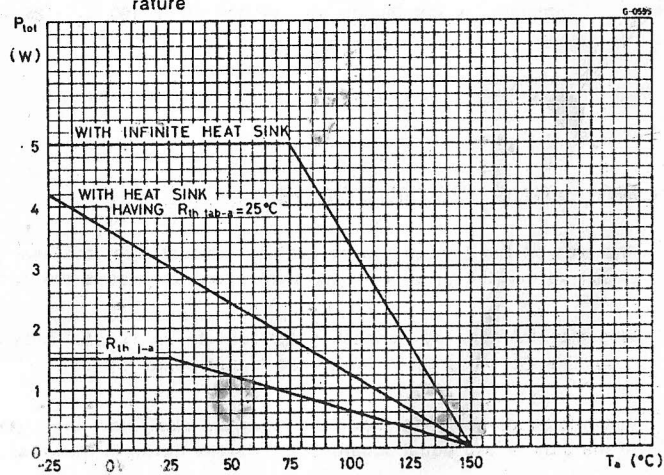


Fig. 17 - Maximum power dissipation versus ambient temperature



## PRELIMINARY DATA

### GENERAL INFORMATION

#### TYPICAL APPLICATION: AUDIO POWER AMPLIFIER

The TBA 800 is an integrated monolithic power amplifier in a 12-lead dual-in-line plastic package with leads specially formed to facilitate automatic insertion of the device in suitably punched printed-circuit boards. The external cooling tabs enable 2.5 W power output to be achieved without external heat-sink and 5 W power output using a small area of the P.C. board Copper as a heat sink. It is intended for use as a low frequency Class B amplifier. The TBA 800 provides 5 W power output at 24 V/16 Ω and works with a wide range of supply voltages (5-30 V); it gives high output current (up to 1 A), high efficiency (70% at 4 W output), very low harmonic distortion and no cross-over distortion.

### ABSOLUTE MAXIMUM RATINGS

V <sub>s</sub>	Supply voltage	30 V
I <sub>o</sub>	Output peak current (non repetitive)	2 A
I <sub>o</sub>	Output current (repetitive)	1 A
P <sub>tot</sub>	Power dissipation: at T <sub>s</sub> = 70 °C	1 W
	at T <sub>tab</sub> = 75 °C	5 W
T <sub>s</sub>	Storage temperature	-25 ÷ 85 °C
T <sub>j</sub>	Junction temperature	-25 ÷ 150 °C

### MECHANICAL DATA

Dimensions in mm

