

## TV VERTICAL DEFLECTION OUTPUT CIRCUIT

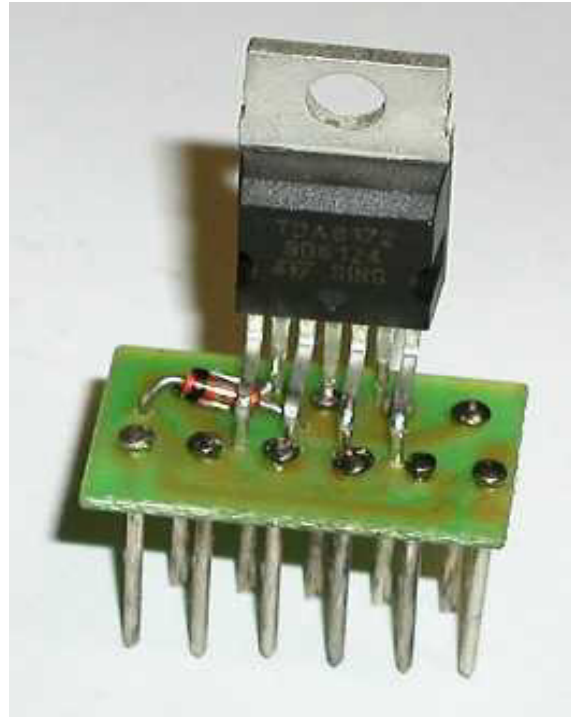
The functions incorporated are:

- POWER AMPLIFIER
- FLYBACK GENERATOR
- REFERENCE VOLTAGE
- THERMAL PROTECTION

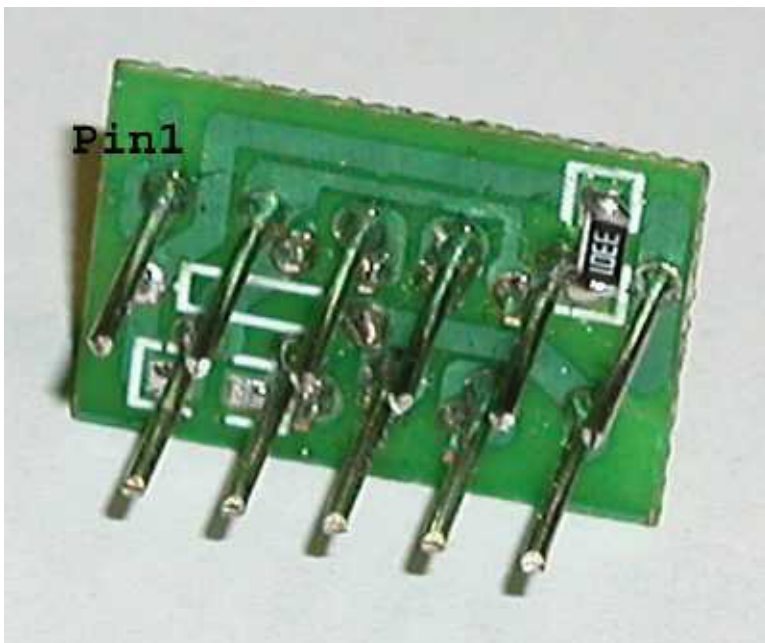
### DESCRIPTION

The TDA2170 is a monolithic integrated circuit in 11- lead Multiwatt package. It is a high efficiency power booster for direct driving of vertical windings of TV yokes. It is intended for use in COLOR and B&W television receivers as well as in monitors and displays.

Our kit is fully compatible with the original product .

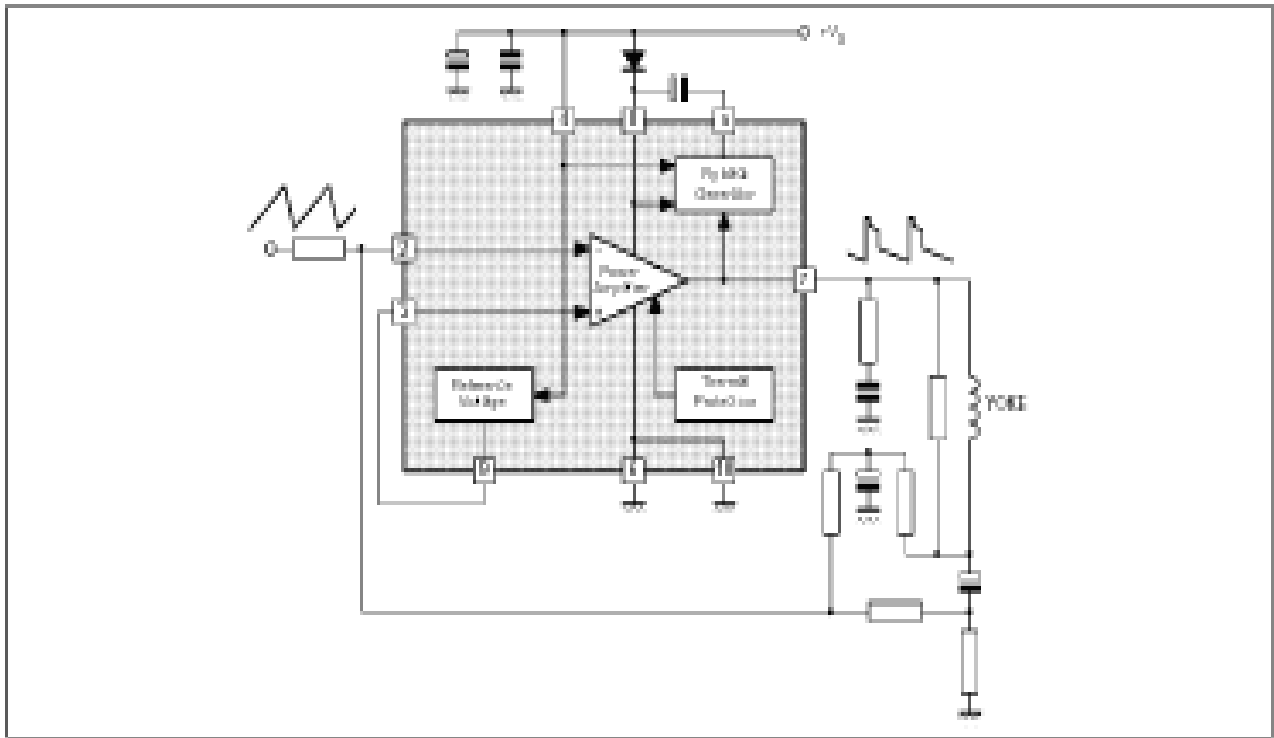


Order code: TDA 2170-TZX  
ASWO code:1063030



The replacement kit is mounted on the original position of IC and must be fixed on the external heatsink, a screw or a compression spring (clip ) being sufficient. Between the heatsink and the package of the kit it is better to insert a layer of silicon grease, to optimize the thermal contact; no electrical isolation is needed between the two surfaces, since the tab is connected to the ground.

BLOCK DIAGRAM



TYPICAL PERFORMANCES

Parameter	110° TVC 5.9 Ω / 10 mH	110° TVC 9.6 Ω / 27 mH	90° TVC 15 Ω / 30 mH	Unit
V <sub>s</sub> – Supply Voltage	24	22.5	25	V
I <sub>s</sub> – Current	280	175	125	mA
t <sub>fly</sub> – Flyback Time	0.6	1	0.7	ms
* P <sub>tot</sub> – Power Dissipation	4.2	2.5	2.05	W
* R <sub>th c-a</sub> – Heatsink	7	13	16	°C/W
T <sub>amb</sub>	60	60	60	°C
T <sub>j max</sub>	110	110	110	°C
t <sub>o</sub>	20	20	20	ms
V <sub>i</sub>	2.5	2.5	2.5	V <sub>FP</sub>
V <sub>7</sub>	50	47	52	V <sub>p</sub>

\* Worst case condition.

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