

Abstract

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REPLACED

Self-oscillating switched-mode power supply

It is known when switching over to low transmitted power in switched-mode power supplies in the case of active standby operation to turn on the switching transistor only by means of packets of pulses between which there are relatively long pauses. The object is to provide a switched-mode power supply for such a packet control which operates by means of pure primary control, requires no special ICs, switches over automatically between normal operation by means of PWM and packet operation, and has a high efficiency.

The output of a measuring rectifier (4) divides the cut-off voltage (U_s), via a first circuit (Z1, T2, T3) with a first threshold value, for the turn-off transistor (T4), and via a second circuit (Z1, T5-T7) with a second threshold value switches a coupling capacitor (C4) into the base line of the switching transistor (T1).

Particularly for switched-mode power supplies without ICs for television receivers of relatively low power

Figure 1

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