



# GreenChip SMPS Control IC

## TEA1833TS

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The TEA1833TS is a low-cost Switched Mode Power Supply (SMPS) controller IC intended for flyback topologies. The TEA1833TS operates in peak current and frequency control mode. Frequency jitter has been implemented to reduce ElectroMagnetic Interference (EMI). Slope compensation is integrated for Continuous Conduction Mode (CCM) operation.

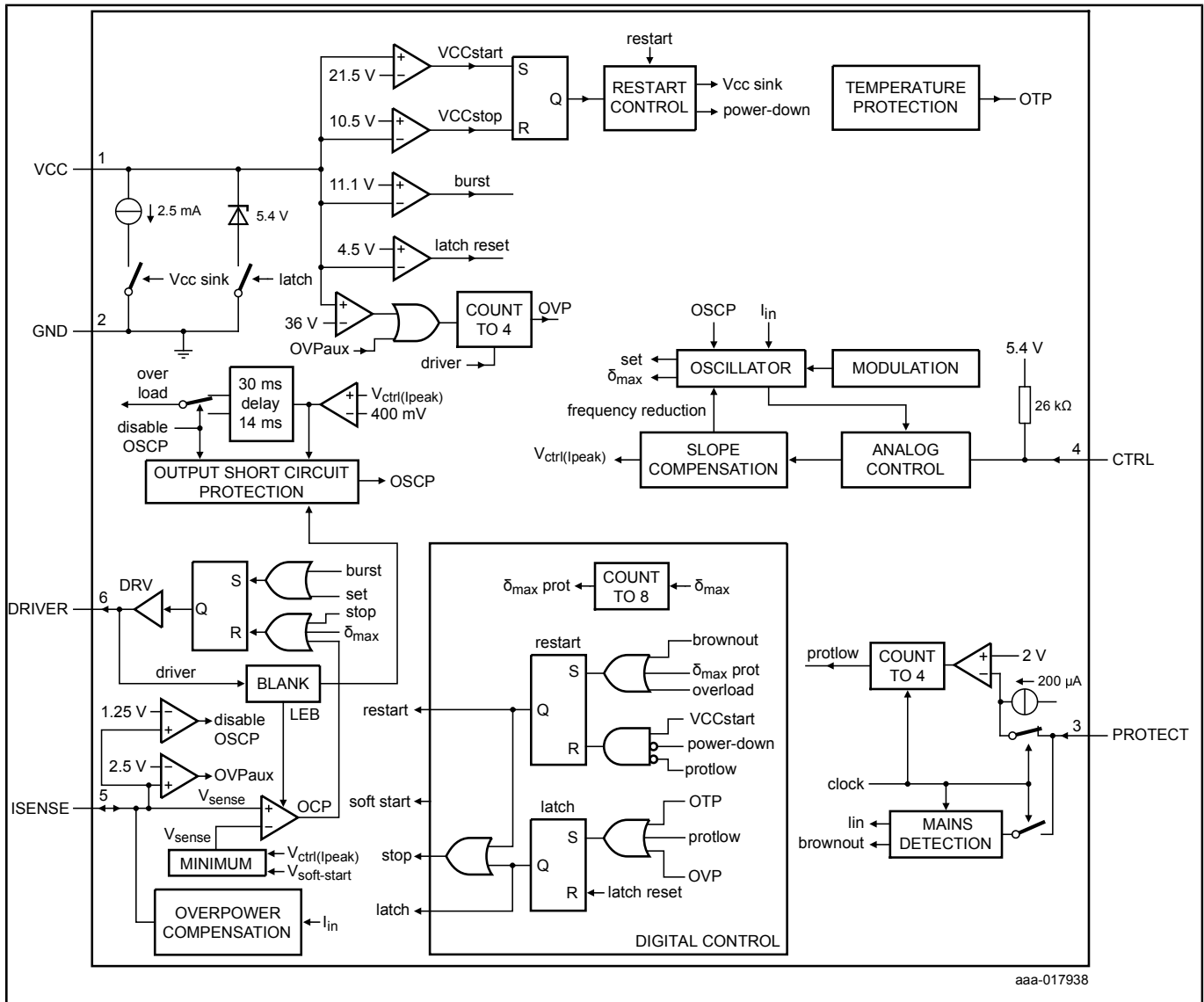
The TEA1833TS IC features OverPower Protection (OPP). The controller accepts an overpower situation up to 200 % for a limited amount of time.

Mains Undervoltage protection (brownin/brownout), output OverVoltage Protection (OVP), and Overtemperature Protection (OTP) can be implemented using a minimal number of external components.

At low-power levels, the primary peak current is set to 22 % of the maximum peak current. The switching frequency is reduced to limit the switching losses. The combination of fixed frequency operation at high output power and frequency reduction at low output power provides high efficiency over the total load range.

The TEA1833TS makes the design of low-cost, highly efficient and reliable supplies easier by requiring a minimum number of external components. The device is especially suited for medium power applications.

# TEA1833TS Block Diagram Block Diagram



View additional information for [GreenChip SMPS Control IC](#).

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