GreenChip Dual Synchronous Rectifier (SR) Controller

TEA1995T

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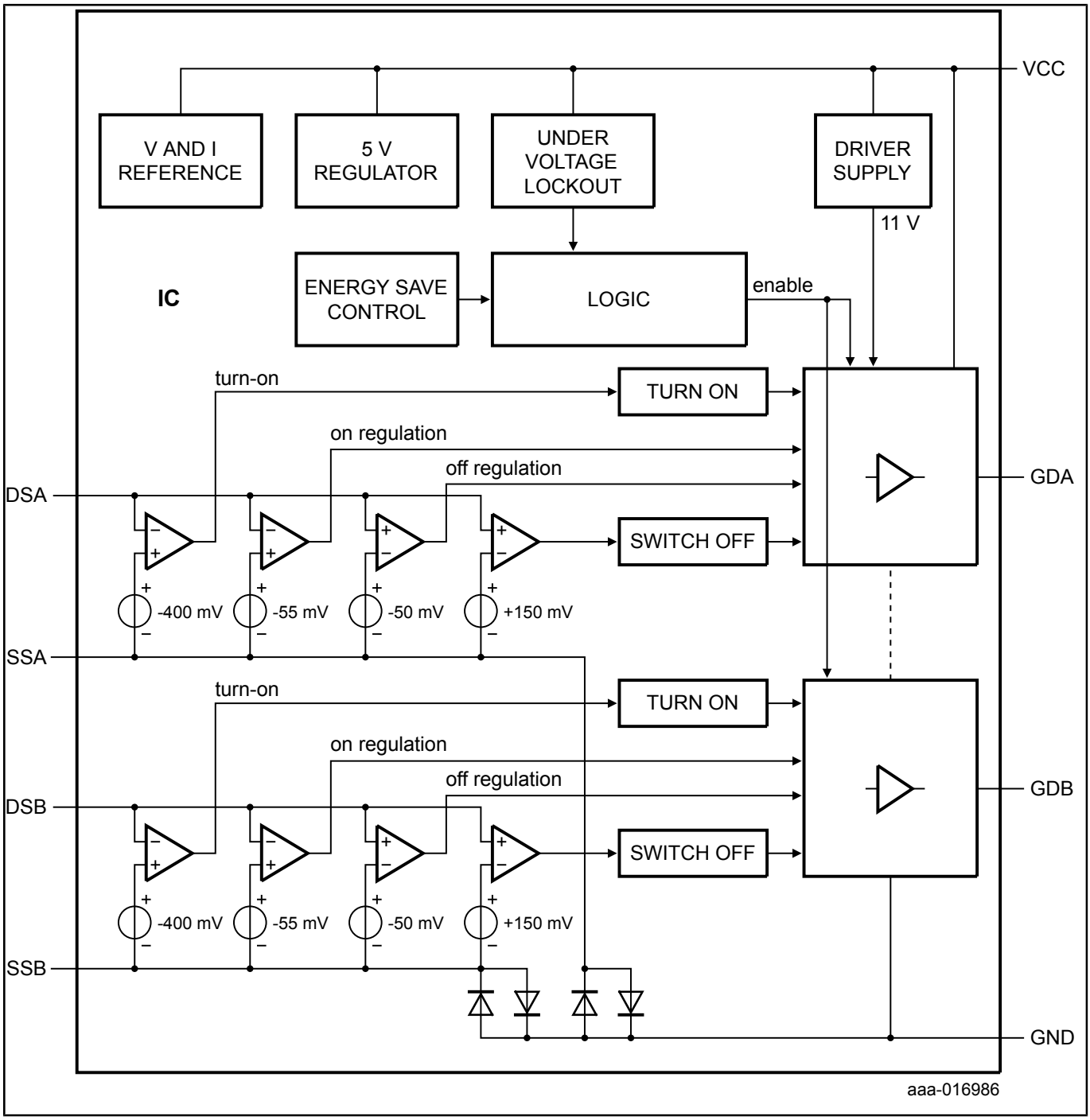
The TEA1995T is the first product of a new generation of synchronous rectifier (SR) controller ICs for switched mode power supplies with adaptive gate drives, providing maximum efficiency at any load.

The TEA1995T is a dedicated controller IC for synchronous rectification on the secondary side of resonant converters. This synchronous rectifier controller has a vast supply voltage range (4.5-38V) and comes equipped with two driver stages for the SR MOSFETs, which rectify the outputs of the secondary transformer windings. The two gate driver stages also have their own sensing inputs and operate independently of each other.

The TEA1995T is intended for resonant power supplies. In such applications, this SR controller can drive two external synchronous rectifier MOSFETs that replace diodes for the rectification of the voltages on the two secondary windings of the transformer.

Fabricated in a Silicon On Insulator (SOI) process, the TEA1995T can be used in all power supplies needing high-efficiency, including the power supplies for PCs, adapters, TVs, and servers. Additionally, consumers can use the TEA1995T in multi-output flyback converters with the SR MOSFET placed at the low side.

TEA1995T Block Diagram Block Diagram



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