



NXP GreenChip controllers for synchronous rectification TEA1761 / TEA1762

Efficient synchronous rectification control

Designed for switched-mode power supplies (SMPS), these extremely efficient and highly integrated GreenChip ICs control synchronous rectification, so you can design simple, cost-effective power supplies with very few external components.

Key features

- ▶ Strong drive capability
- ▶ High driver output voltage (10 V) compatible with all MOSFETs
- ▶ Discriminates between primary stroke and ringing at low mains
- ▶ Wide Vcc range (8.5 to 38 V)
- ▶ Accurate internal voltage reference
- ▶ Integrated primary-side control / feedback function
- ▶ On-chip protection features including OTP and UVLO

Key benefits

- ▶ Very simple design
- ▶ Minimizes board space
- ▶ Low external component count
- ▶ Low current consumption
- ▶ No auxilliary winding needed for supply

Key applications

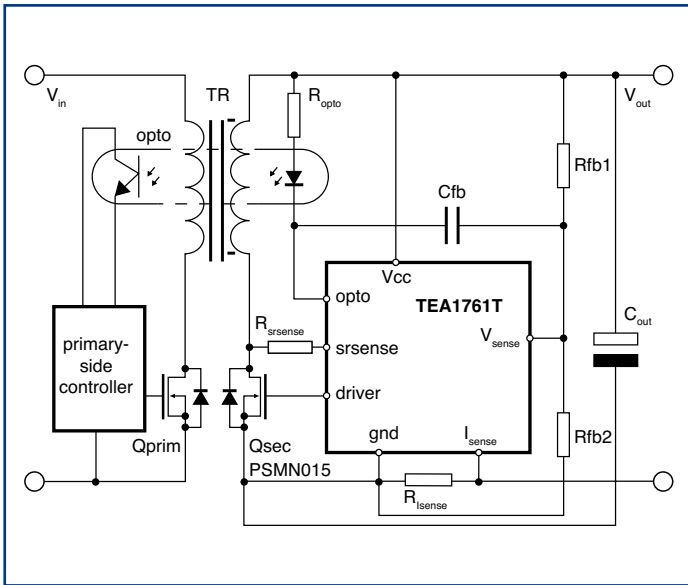
- ▶ Adapters
- ▶ Chargers
- ▶ LCD TV

The high integration level and built-in green functions of our new GreenChip devices lead to improved efficiency at all power levels and help keep SMPS costs down. Ideal for synchronous rectification on the secondary side of discontinuous conduction mode and quasi resonant flyback converters, they provide you with a proven solution that helps simplify design.

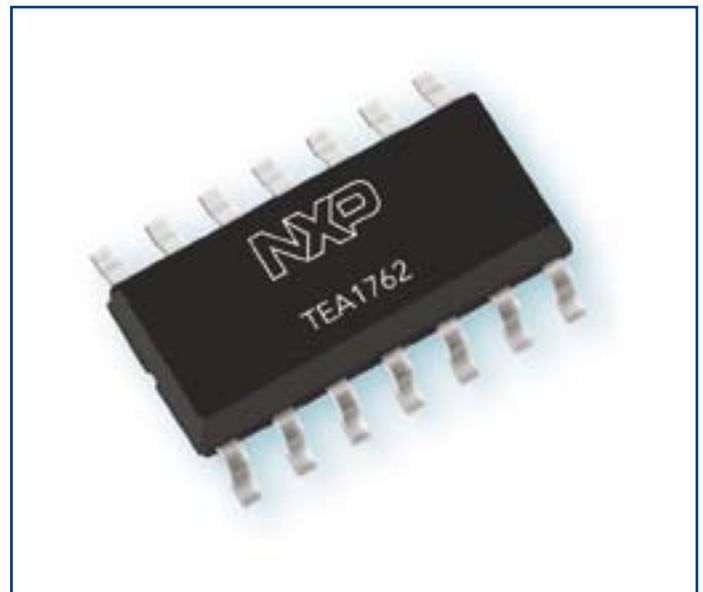
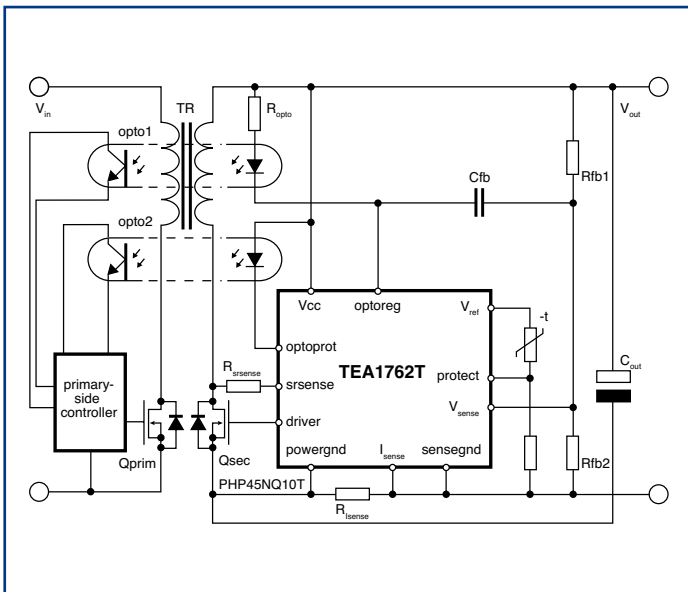
Two versions are available, the TEA1761 and the TEA1762. The TEA1761 is a highly integrated device that delivers excellent performance at a competitive price. The TEA1762 builds on the functionality of the TEA1761 by adding extra protection, including a latch input and a reference output accurate to 2.5 V. It also offers improved capabilities for voltage control, and increases flexibility with an additional opto coupler drive.

To keep designs as simple as possible, both devices are housed in small, space-saving packages. The TEA1761 uses an SO8 package, while the TEA1762 uses a compact SO14.

Fabricated in the same advanced SOI (Silicon On Insulator) process used for all our GreenChip ICs, the TEA1761 and TEA1762 deliver robust performance and accept a wide voltage range.



TEA1761



TEA1762