

Secondary Side Synchronous Rectifier (SR) Controller

FEATURES

- Secondary Side Synchronous Rectifier(SR) for flyback converters
- Supports CCM, DCM and Quasi-Resonant Topologies
- <300uA Low Quiescent Current
- Built-in 1.25V(± 1.5%) Reference Voltage and Error Amplifier for Eliminating TL431
- Built-in Protections:
 - VCC UVLO.
 - Primary-Side switching on time Expansion and Shrink Protection
- SOT23-6 packages available

GENERAL DESCRIPTION

KP401 is a secondary side synchronous rectifier controller, that replaced Schottky diodes by combined with an ultra low on-state resistance power switch for high-efficiency flyback converters. KP401 supports CCM, DCM and Quasi-Resonant Topologies based on the proprietary of “Self-Suitable Dead Time Control” technology. An integrated Error Amplifier with 1.25V reference voltage can replace TL431 for cost saving.

KP401 integrates protections of Under Voltage Lockout (UVLO), Primary-Side switching on time Expansion and Shrink Protection.

APPLICATIONS

- Industrial Power Systems
- Battery Powered Systems
- Flyback Converters

TYPICAL Application CIRCUIT

