

SYNCHRONOUS BOOST CONTROLLER

GENERAL DESCRIPTION

XA5017 is a high efficiency synchronous boost controller that converts from 3V~36V input range and up to 36V output voltage with an outside N-channel MOSFET for the synchronous switch.

The XA5017 includes adjustable current limit, adjustable soft-start, adjustable compensation net and thermal shutdown preventing damage in the event of an output overload.

For different application we can select suitable compensation net、current limit、soft start and select suitable MOSFET to obtain a high efficiency.

FEATURES

- 3V~36V input voltage range
- Adjustable output voltage from 5V to 36V
- 1.21V VFB reference voltage
- Adjustable current limit
- Adjustable soft-start
- Adjustable compensation net
- Input under voltage lockout
- 400KHz fixed switching frequency
- Thermal shutdown
- QFN3x3-16Package
- Rohs Compliant and Halogen Free

APPLICATIONS

- Power Bank
- Type C USB Device
- Portable Class D Device
- Power Amplify Device

Typical Application

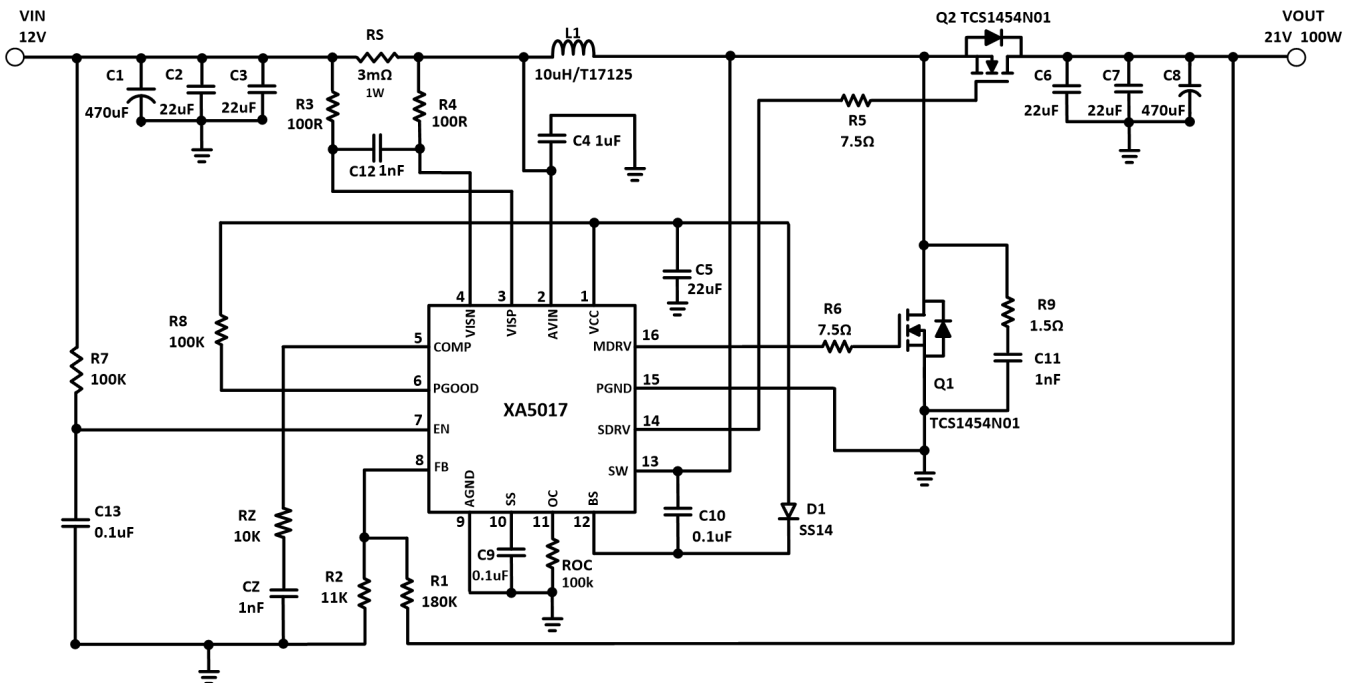


Figure 1 Typical Application Circuit1