

MAXREFDES115 Power Supply Reference Designs

Product Overview

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For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

Maxim Integrated MAXREFDES115 Isolated Power Supply Reference Designs are a series of isolated, industrial power supply reference designs. These reference designs were designed and built by power supply experts. The MAXREFDES115 isolated power supplies efficiently convert 24V into useful voltage rails at a variety of power levels. Every power rail is isolated with a readily available transformer from multiple, global vendors, providing for quick, convenient transformer selection.



Each of the MAXREFDES115 isolated power supply reference designs has been tested for load and line regulation, as well as efficiency and transient performance. The MAXREFDES115 is an efficient active clamp topology with 24V input and a 5V output at 4A (20W) of power. The design features the MAX17599, a low-IQ wide-input-range active-clamp current-mode PWM controller. This entire circuit fits on a 20mm x 55mm board.

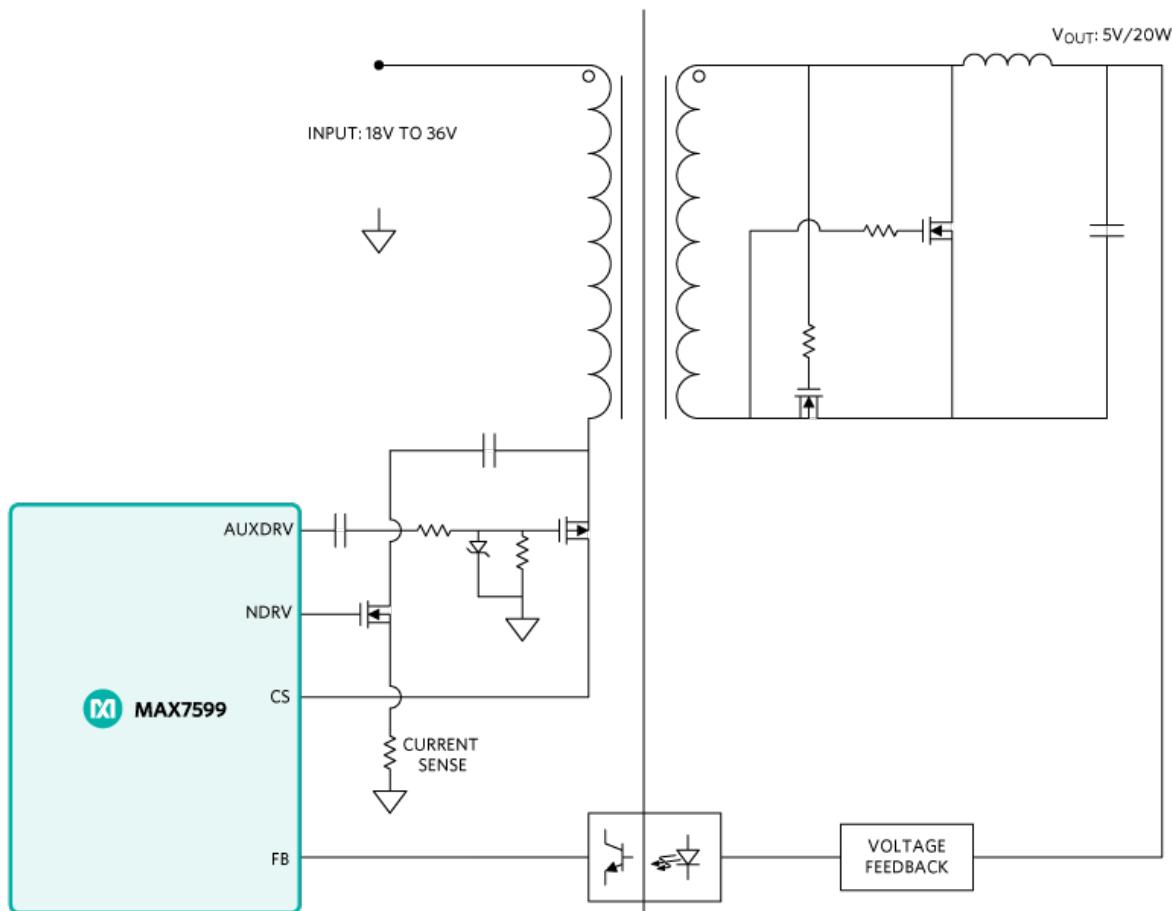
Features

- Maxim MAX17599, a low-IQ wide-input range active clamp current-mode PWM controller
- Included transformer:
 - MAXREFDES115A - Wurth Electronics (750315945)
 - MAXREFDES115B - Sumida (12387-T070)
 - MAXREFDES115C - Hanrun Electronics (HR051434)
- Functional insulation
- Compact and flexible
- Low power dissipation
- Minimal external components
- Robust operation in adverse industrial environments
- 5V @ 4A output with 20% over-range current

Applications

- PLCs
- Industrial Process Control and Sensors
- Telecom and Datacom Power Supplies

Block Diagram



Mouser Part Number(s)

[View All Parts](#)

To learn more, visit <https://www.mouser.com/new/maxim-integrated/maxim-maxrefdes115/>