

(ACTIVE) SIMPLESWITCHERMODULE-REF

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Description

The LMZ13610/8 can accept an input voltage rail between 6V and 36V and the LMZ12010/8 can accept an input voltage rail between 6V and 20V. The devices can deliver an adjustable and highly accurate output voltage as low as 0.8V and as high as 6V. The control structure is constant frequency PWM. The control loop operates well with low ESR output capacitors such as ceramics. The precision enable input allows for programmable UVLO of the input supply. The external soft-start capacitor facilitates a controlled and adjustable startup rise time of the output. The LMZ13610 and LMZ12010 family is a reliable and robust solution with the following features: loss-less cycle-by-cycle valley current limit to protect for over current or short-circuit fault, thermal shutdown, input under-voltage lockout, and will start up into a pre-biased output. Free-running switching frequency is 350 kHz.

Features

ay ambient temp or



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SIMPLESWITCHERMODULE-REF:
LMZ12010 20VIN 10AOUT Simple Switcher® Module Reference Design

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CAD/CAE symbols

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Texas Instruments and Accelerated Designs Inc. have collaborated together to provide TI customers with schematic symbols and PCB layout footprints for TI products.

Step 1: Download and install the Ultra Librarian software [ZIP: 62MB](#)

Step 2: Download the Symbol and Footprint .bxl file.

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Technical Documents

User Guides (1)

AN-2136 LMZ13610/8/6 and LMZ12010/8/6 Demo Board (Rev. B)

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