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FEATURES GaN Drive Technology fully Optimized for GaN FETs Output Voltage up to 100V Wide VIN Range: 4V to 60V and Operates Down to 1V After Start-Up No Catch, Clamp, or Bootstrap Diodes Needed Internal Smart Bootstrap Switches Prevent Overcharging of High-Side Driver Supplies Resistor Adjustable Dead Times Split Output Gate Drivers for Adjustable Turn-On and Turn-Off Driver Strengths Accurate Adjustable Driver Voltage and UVLO Low Operating IQ: 15A Programmable Frequency (100kHz to 3MHz) Synchronizable Frequency (100kHz to 3MHz) Spread Spectrum Frequency Modulation 40-Lead (6mm x 6mm), Side Wettable, QFN Package AEC-Q100 Qualified for Automotive Applications APPLICATIONS Automotive and Industrial Power Systems Military Avionics and Medical Systems Telecommunications Power Systems GENERAL DESCRIPTION The LTC7892 is a high-performance dual boost DC-to-DC switching regulator controller that drives all-N-channel synchronous gallium nitride (GaN) field effect transistor (FET) power stages with output voltages up to 100V. The LTC7892 solves many of the challenges traditionally faced when using GaN FETs. The LTC7892 simplifies the application design while requiring no protection diodes and no other additional external components compared to a silicon metal-oxide semiconductor field effect transistor (MOSFET) solution. The internal smart bootstrap switches prevent overcharging of the BOOSTX pin to the SWX pin the high-side driver supplies during dead times, protecting the gate of the top GaN FET. The dead times of the LTC7892 can optionally be optimized with external resistors for margin or to tailor the application for higher efficiency and allowing for high-frequency operation. The gate drive voltage of the LTC7892 can be precisely adjusted from 4V to 5.5V to optimize performance and allow the use of different GaN FETs or even logic-level MOSFETs. When biased from the boost converter regulator output, the LTC7892 can operate from an input supply as low as 1V after start-up. Access to this page has been denied either because we believe you are using automation tools to browse the website, or something in the request did not pass security restrictions. This may happen as a result of the following: Javascript is disabled or blocked by an extension (ad blockers for example) Your browser does not support cookies The request matched a security rule combination that requires inspection. This could happen based on the combination of search terms that individually are harmless, but together match security rules. Please make sure that Javascript and cookies are enabled on your browser and that you are not blocking them from loading. Reference-ID: #0.d78e655f.1753166301.105d804c If you believe you should not be seeing this page please fill out our Feedback Form and our team will contact you to help. Learn More About Our: Search API | BOM Tool Evaluation circuit EVAL-LTC7891-AZ features the LTC7891: a 100V Step-Down Synchronous GaN FET controller. The LTC7891 is specifically designed to drive up to 100V GaN FETs safely and easily through internally optimized bootstrap switches and smart dead time control. Split gate drivers allow for easily adjustable turn-on and turn-off of FETs. Additionally, the IC features low IQ, up to 3MHz programmable/synchronizable switching frequency, spread spectrum, and a small 28-lead (4mm x 5mm) side wettable QFN package. These features allow for a wide variety of applications including industrial, military, medical, and telecommunications systems. The EVAL-LTC7891-AZ operates from a 15V to 72V input voltage range and generates a 12V, 20A output. The LTC7891 has a precision voltage reference which can generate an output voltage with 2% tolerance over the full operating conditions. The EVAL-LTC7891-AZ is set to 500kHz switching frequency, which results in a small and efficient circuit. The converter achieves over 96% efficiency with 20A load at full operating VIN, with a peak efficiency of over 99%. This board can be easily modified to regulate output voltages from 0.8V to 60V. The evaluation circuit has been specially designed with 100V EPC GaN FET form factor. Various FETs of similar footprint can be replaced to fit a wide array of applications. The EVAL-LTC7891-AZ provides a high-performance cost-effective solution for generating a 12V output. The LTC7891 data sheet gives a complete description of this part, its operation, and application information. The data sheet must be read in conjunction with this user guide for EVAL-LTC7891-AZ. Design files for this circuit board are available at www.analog.com.

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