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A Voltage Monitoring IC With HV Multiplexer and HV Transceiver for Battery Management Systems

ABSTRACT

This paper presents a voltage monitoring IC with high-voltage multiplexer (HVMUX) and HV transceiver for battery interconnect module (BIM) used in battery management systems (BMSs).The voltage monitoring IC must be able to accommodate input voltage up to tens of volts, perhaps even hundreds of volts, which is difficult to be realized using a logic-based solution.To realize a solution on silicon, the voltage monitoring IC shall be fabricated using an advanced

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HV semi-conductor process, which usually is constrained by the voltage drop limitation between gate and source of HV devices.

EXISTING SYSTEM

High-VOLTAGE (HV) battery management system (BMS) is widely needed in many applications, e.g., electric vehicle and hybrid electric vehicle, where many battery modules are assembled and integrated. One of the popular BMS architectures is the modular formation that a module monitors several batteries with a daisy-chain interface. a distributed BMS is

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composed of at least five blocks, including battery interconnect modules (BIM).

PROPOSED SYSTEM

In this paper, we propose a total HV solution on silicon for IBIMs. The proposed design is implemented using a typical 0.25 μ m 1-poly 3-metal 60-V BCD process such that it can be easily integrated in a possible SoC solution for BMS. The measurement results justify our design to be a high performance analog HV multiplexer (HVMUX) with HV transceiver.

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The error of the proposed HVMUX is smaller than 2.54% from 5 to 32 V. In addition, the off-isolation of HVMUX is -92 dB@1 MHz. Lastly and most importantly, the proposed HV transceiver does not need additional discrete components and isolators.

SYSTEM REQUIERMENTS

Microwind/tanner

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