dFuse: Smart eFuse for SDV and AI Systems

XS48100 NEW

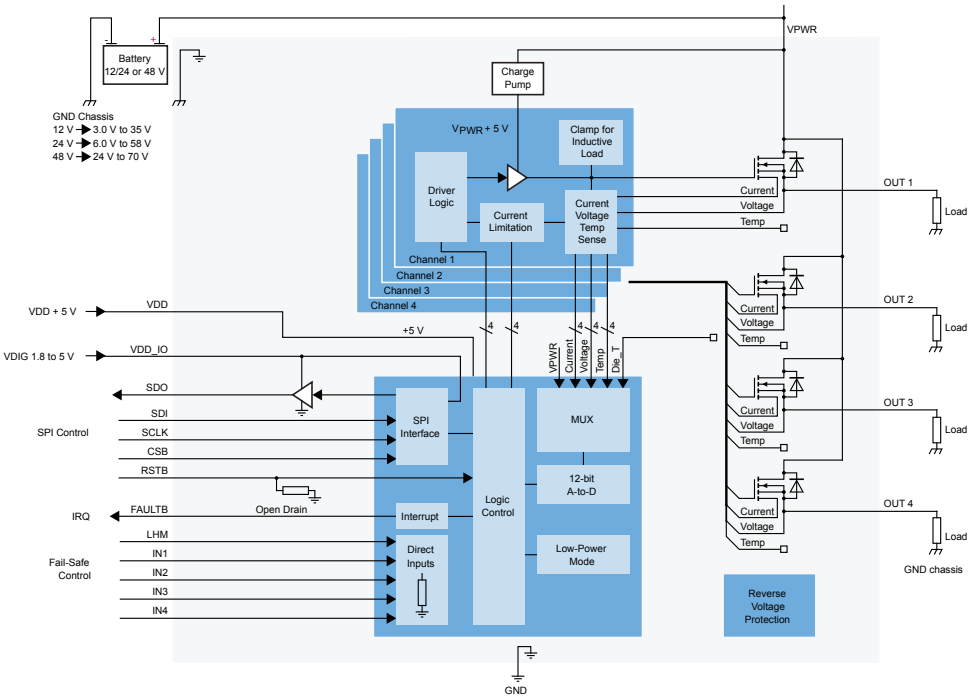
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The dFuse supports the Software-Defined Vehicle (SDV) methodology by enabling a software-defined in-vehicle energy network. With digital core, it ensures high autonomy and saves MCU resources via its digital core saves MCU resources through an autonomous operating corridor that monitors preconfigured voltage, current and temperature thresholds. Its intrinsic cap charging handles large capacitive loads with without software interaction, automatically distinguishing a charging capacitor from a short circuit. Additionally, the Smart Low-Power Mode (SLP) Mode delivers full current up to the limit without exiting the low-power (LP) mode, enabling dynamic load actuation while keeping the rest of the vehicle infrastructure in deep sleep.

XS48100 Block Diagram



View additional information for dFuse: Smart eFuse for SDV and AI Systems.

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