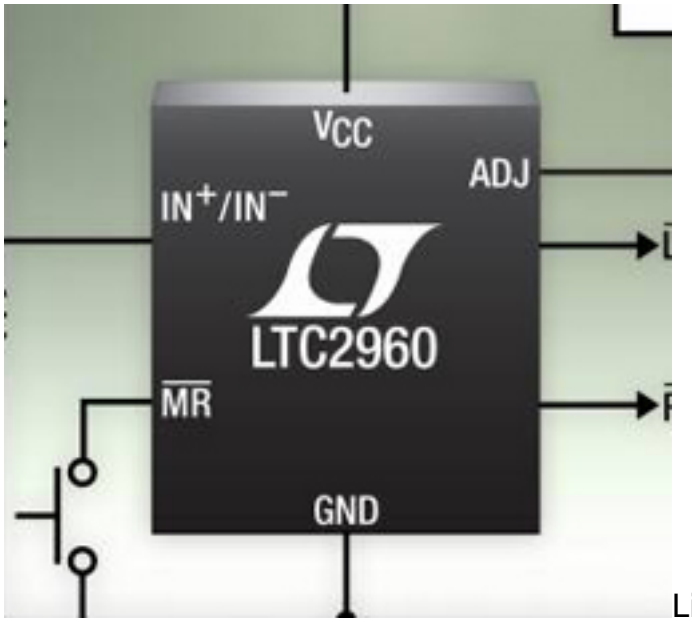
36V nano current voltage monitor targets multicell applications



Linear Technology Corporation introduces the LTC2960 [1], a 2.5V to 36V, two input voltage monitor that draws only 850nA of quiescent current, offering extended battery life in battery-powered applications. The LTC2960 provides two adjustable monitoring inputs that can be configured to provide undervoltage (UV) or overvoltage (OV) monitoring, low battery indication, undervoltage lockout (UVLO), power supply sequencing signals or a high voltage window comparator for microprocessor, DC/DC switcher or LDO based systems. The LTC2960 fulfills a broad range of battery-powered, portable application requirements with its wide voltage operation and low current consumption in a tiny 2mm x 2mm DFN or ThinSOT™ package.

This unique feature set differentiates the LTC2960 for low power voltage monitor applications and makes it ideal for multiple Li+ coin cells, AAs, AAAs and other compact battery-powered or “green” applications. The ±1.5% accurate reset, undervoltage and overvoltage monitoring thresholds are easy to configure with external resistors. When used as a supervisor, a manual reset input is available for optional use of a pushbutton switch to force a system reset. The LTC2960-1 and LTC2960-3 provide two independent UV monitors, while the LTC2960-2 and LTC2960-4 provide one UV and one OV monitor. Ordering options include selectable 15ms or 200ms reset timeout period, output logic supply pin, or choice of active pull-up or 36V open-drain output for maximum application flexibility.

The LTC2960 is available today in commercial, industrial and automotive versions, with operating temperature ranges from 0°C to 70°C, -40°C to 85°C, and -40°C to 125°C, respectively. All devices can be ordered in either
8-pin 2mm x 2mm DFN or 8-lead ThinSOT packages, both of which are RoHS compliant. Pricing starts at $1.71 each in 1,000 piece quantities. For more information, visit www.linear.com/product/LTC2960 [1].

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