



100V Micropower Voltage Monitors Provide 1.4% Measurement Accuracy for High Voltage Designs

MILPITAS, CA – March 25, 2015 – Linear Technology Corporation introduces the [LTC2965](#) and [LTC2966](#), 3.5V to 100V, single and dual channel voltage monitors that draw only 6 μ A of quiescent current. Alternative voltage monitoring solutions typically call for a low power comparator, a high input voltage LDO to power the comparator and a high value resistive divider to level translate the monitored rail, all of which increase board space and power consumption, and decrease monitoring accuracy. The LTC2965/LTC2966 avoid the major pitfalls of a discrete solution by integrating all components required to directly interface with high voltage rails in space-efficient 3mm x 3mm packages. Each device includes resistor-programmable threshold inputs to facilitate simple undervoltage, overvoltage or window monitoring of positive or negative rails to within $\pm 1.4\%$ accuracy over temperature.

In addition to the high voltage inputs, the LTC2965/LTC2966 include adjustable-polarity UV/OV comparator outputs that can be pulled up to voltages as high as 100V. All high voltage pins are rated to 140V, withstanding high voltage transients without damage. Integrated high value resistive dividers with selectable ratios offer improved accuracy, power savings and flexibility compared to solutions using external high value resistors. Threshold programming is achieved using low value discrete resistors in combination with configuration pins for scaling the comparator thresholds and setting output polarity. A built-in buffered reference provides convenient low voltage biasing for the external resistive dividers. High and low threshold input

pins provide for a flexible and wide hysteresis range by simply setting a different voltage on each pin. If the hysteresis value is not critical, one of the inputs can be grounded to select an internal default hysteresis voltage. The small size, wide operating range and low power consumption of the LTC2965/LTC2966 are ideal for a wide variety of applications, including battery-powered equipment, telecom systems and automotive and industrial electronics.

The LTC2965 and LTC2966 are 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. The LTC2965 is offered in an 8-pin 3mm x 3mm DFN or MSOP-16 package and the LTC2966 is offered in a 16-pin 3mm x 3mm QFN or 20-lead SO package. Pricing starts at \$2.44 (LTC2966) and \$1.98 (LTC2965) each, respectively in 1,000 piece quantities. For more information, visit www.linear.com/product/LTC2966.

Photo Caption: Compact 2-Supply Monitor with Wide Operating Range


Summary of Features: LTC2965-66

- Wide Operating Range: 3.5V to 100V
- Quiescent Current: 6µA Typical
- Adjustable Hysteresis & Threshold Range
- Internal High Value Resistive Dividers
- Single Channel (LTC2965) or Dual Channel (LTC2966)
Voltage Monitor
- Polarity Selection
- High Voltage Rated Outputs
- Adjustable or Built-In Hysteresis

The USA list pricing shown is for budgetary use only. International prices may differ due to local duties, taxes, fees and exchange rates.

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for over three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

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