



2A μ Module Regulator Configurable as a Step-Down or an Inverter Is Safe up to 60V_{IN}

MILPITAS, CA – August 21, 2013 – Linear Technology Corporation introduces the [LTM8050](#), 2A μ Module[®] regulator that is protected against input surges up to 60V and can be configured as a step-down or an inverting (i.e., negative output) converter. With 60V input voltage protection, the LTM8050 can be used safely in applications where the main power bus may be susceptible to large voltage spikes or deviations. Examples of such applications are automotive, avionics, factory automation, heavy equipment, transportation, robotics and industrial systems.

The LTM8050's operating input voltage is from 3.6V to 58V (60V_{max}) and the output is adjustable with one resistor from 0.8V to 24V. When configured as an inverter, the output is adjustable from -0.8V to -24V. The LTM8050 includes an inductor, DC/DC regulator, power FETs, and the compensation circuitry, all housed in a 9 x 15 x 4.92mm BGA package.

To increase load current above 2A, up to four LTM8050s can be current shared to deliver as much as 8A. In systems sensitive to switching regulator noise requiring out of band operation, the LTM8050's switching frequency can be adjusted over a wide range from 100kHz to 2.4MHz with an external resistor. The LTM8050 is available for operation in two temperature ranges of -40°C to 125°C and -55°C and 125°C. 1000-piece pricing starts at \$14.00 each. For more information, visit www.linear.com/product/LTM8050


Photo Caption: 60V, 2A μ Module Regulator

Summary of Features: LTM8050

- Wide Input Voltage Range: 3.6V to 58V (60V Absolute Maximum)
- Up to 2A Output Current
- Current Share to Increase Output Current
- $\pm 0.8V$ to $\pm 24V$ Output Voltage (Step-Down & Invert Modes)
- Adjustable Switching Frequency: 100kHz to 2.4MHz
- Configurable as an Inverter
- Current Mode Control
- Programmable Soft-Start
- 9mm \times 15mm \times 4.92mm BGA Package

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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