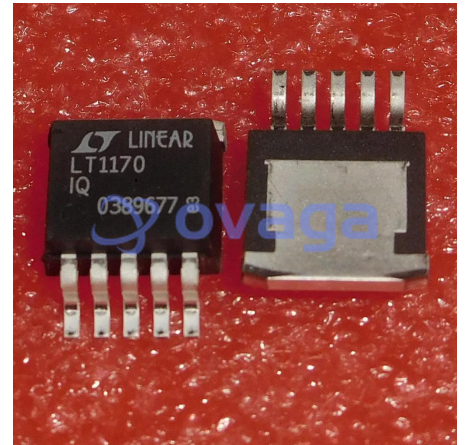


Conv DC-DC 3V to 40V Step Down/Step Up Single-Out 40V 100W 6-Pin(5+Tab)
DDPAK Tube

Manufacturers	Analog Devices, Inc
Package/Case	TO-263
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1170IQ#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT1170/LT1171/LT1172 are monolithic high power-switching regulators. They can be operated in all standard switching configurations including buck, boost, flyback, forward, inverting and “Cuk.” A high current, high efficiency switch is included on the die along with all oscillator, control and protection circuitry. Integration of all functions allows the LT1170/LT1171/LT1172 to be built in a standard 5-pin TO-3 or TO-220 power package as well as the 8-pin packages (LT1172). This makes them extremely easy to use and provides “bust proof” operation similar to that obtained with 3-pin linear regulators.

The LT1170/LT1171/LT1172 operate with supply voltages from 3V to 60V, and draw only 6mA quiescent current. They can deliver load power up to 100W with no external power devices. By utilizing current-mode switching techniques, they provide excellent AC and DC load and line regulation.

The LT1170/LT1171/LT1172 have many unique features not found even on the vastly more difficult to use low power control chips presently available. They use adaptive antisat switch drive to allow very wide ranging load currents with no loss in efficiency. An externally activated shutdown mode reduces total supply current to 50μA typically for standby operation.

Features

Wide Input Voltage Range: 3V to 60V

Low Quiescent Current: 6mA

Internal 5A Switch (2.5A for LT1171, 1.25A for LT1172)

Shutdown Mode Draws Only 50 μ A Supply Current

Very Few External Parts Required

Self-Protected Against Overloads

Operates in Nearly All Switching Topologies

Flyback-Regulated Mode Has Fully Floating Outputs

Comes in Standard 5-Pin Packages

LT1172 Available in 8-Pin MiniDIP and Surface Mount Packages

Can Be Externally Synchronized

Application

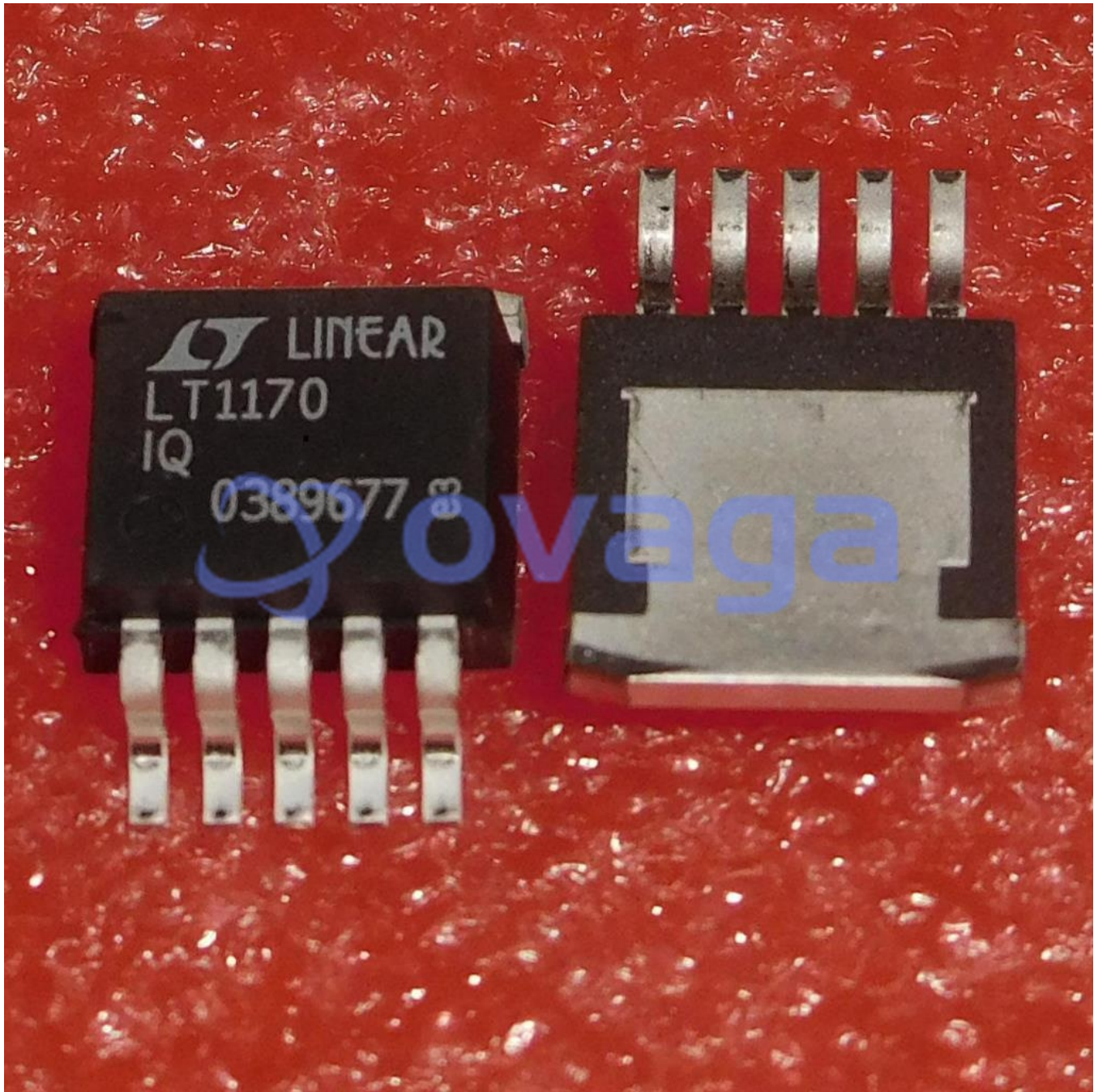
Logic Supply 5V at 10A

5V Logic to ± 15 V Op Amp Supply

Battery Upconverter

Power Inverter (+ to -) or (- to +)

Fully Floating Multiple Outputs



Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LT1038CK](#)

Analog Devices, Inc
TO-3



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT4295IUFD#PBF](#)

Analog Devices, Inc
28-WFQFN