

IC REG 58VIN 6A CVCC BGA

Manufacturers	Analog Devices, Inc
Package/Case	BGA108
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTM8064IY#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTM8064 is a 58VIN, 6A, constant-voltage, constantcurrent (CVCC), step-down μ Module® (power module) regulator. Included in the package are the switching controller, power switches, inductor and support components. Operating over an input voltage range of 6V to 58V, the LTM8064 supports an output voltage range of 1.2V to 36V. CVCC operation allows the LTM8064 to accurately regulate its output current up to 7A when sourcing and 9.1A when sinking over the entire output range. The output current can be set by a control voltage, a single resistor or a thermistor. To set the switching frequency, simply place a resistor from the RT pin to ground. A resistor from FB to ground will set the output voltage. Only the bulk input and output filter capacitors are needed to finish the design.

The LTM8064 is packaged in a thermally enhanced, compact (16mm × 11.9mm × 4.92mm) over-molded ball grid array (BGA) package suitable for automated assembly by standard surface mount equipment. The LTM8064 is RoHS compliant.

Features

Complete Step-Down Switch Mode Power Supply

CVCC: Constant-Voltage, Constant-Current

2-Quadrant: Sources and Sinks Output Current

Parallelable for Increased Output Current, Even from Different Voltage Sources

Adjustable Output Current Up to 7A When Sourcing or 9.1A When Sinking

Wide Input Voltage Range: 6V to 58V

1.2V to 36V Output Voltage

Selectable Switching Frequency: 100kHz to 1MHz

Programmable Soft-Start

Tiny (16mm × 11.9mm × 4.92mm) Surface Mount BGA Package

Application

Short- Circuit Protection or Accurate Output Current Limit

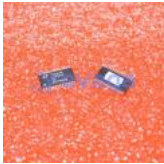
High Power LED Drive

Peltier Driver

Motor Drive

Battery/Supercap Charging and Cell Balancing

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