

Charge Pump Inverting 100mA 25 kHz 8-Pin, SOIC

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|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | SOP8 |
| Product Type | Power Management ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |



Images are for reference only

Please submit RFQ for LT1054CS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT1054 is a monolithic, bipolar, switched-capacitor voltage converter and regulator. The LT1054 provides higher output current than previously available converters with significantly lower voltage losses. An adaptive switch driver scheme optimizes efficiency over a wide range of output currents. Total voltage loss at 100mA output current is typically 1.1V. This holds true over the full supply voltage range of 3.5V to 15V. Quiescent current is typically 2.5mA.

The LT1054 also provides regulation, a feature not previously available in switched-capacitor voltage converters. By adding an external resistive divider a regulated output can be obtained. This output will be regulated against changes in both input voltage and output current. The LT1054 can also be shut down by grounding the feedback pin. Supply current in shutdown is less than 100µA.

The internal oscillator of the LT1054 runs at a nominal frequency of 25kHz. The oscillator pin can be used to adjust the switching frequency or to externally synchronize the LT1054.

The LT1054 is pin compatible with previous converters such the LTC1044/LTC7660.

Features

Output Current:

100mA (LT1054)

125mA (LT1054L)

Reference and Error Amplifier for Regulation

Low Loss: 1.1V at 100mA

Operating Range:

3.5V to 15V (LT1054)

3.5V to 7V (LT1054L)

External Shutdown

External Oscillator Synchronization

Can Be Paralleled

Pin Compatible with the LTC®1044/ICL7660

Available in SW16 and SO-8 Packages

Application

Voltage Inverter

Voltage Regulator

Negative Voltage Doubler

Positive Voltage Doubler

Related Products



[LT3763EFE](#)

Analog Devices, Inc
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc
MSOP-8P



[LTM8045EY#PBF](#)

Analog Devices, Inc
BGA40



[LT1038CK](#)

Analog Devices, Inc
TO-3



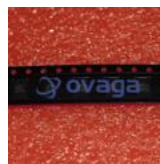
[LTC3440EMS](#)

Analog Devices, Inc
MSOP10



[LTC2990IMS#PBF](#)

Analog Devices, Inc
10MSOP



[LT4295IUFD#PBF](#)

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28-WFQFN