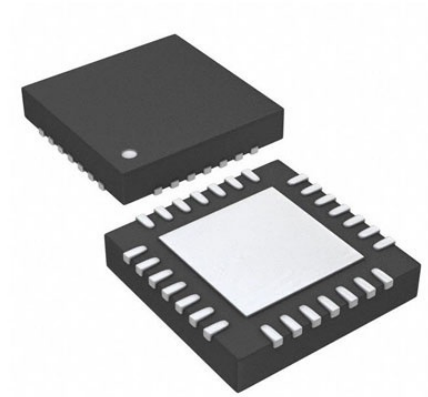


Voltage Regulator, 3A Adjustable 28-Pin, MLF

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN-28
Product Type	Power Supplies
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC38300HYHL-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC38300 is a 3A peak, 2.2A continuous output current step down converter. This is the first device in a new generation of High Efficiency Low Dropout (HELDO®) regulators that provide the benefits of an LDO in respect to ease of use, fast transient performance, high PSRR and low noise while offering the efficiency of a switching regulator.

As output voltages move lower, the output noise and transient response of a switching regulator become an increasing challenge for designers. By combining a switcher whose output is slaved to the input of a high performance LDO, high efficiency is achieved with a clean low noise output. The MIC38300 is designed to provide less than 5mV of peak to peak noise and over 70dB of PSRR at 1kHz. Furthermore, the architecture of the MIC38300 is optimized for fast load transients allowing to maintain less than 30mV of output voltage deviation even during ultra fast load steps, making the MIC38300 an ideal choice for low voltage ASICs and other digital ICs.

The MIC38300 features a fully integrated switching regulator and LDO combo, operates with input voltages from 3.0V to 5.5V input and offers adjustable output voltages down to 1.0V.

Features

3A peak output current

2.2A continuous operating current

Input voltage range: 3.0V to 5.5V

Adjustable output voltage down to 1.0V

Output noise less than 5mV

Ultra fast transient performance

Unique switcher plus LDO architecture

Fully integrated MOSFET switches

Micro-power shutdown

Easy upgrade from LDO as power dissipation becomes an issue

Thermal shutdown and current limit protection

Related Products



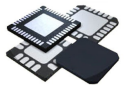
[MIC45212-1YMP-TR](#)

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B2QFN-64



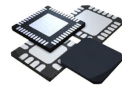
[MIC45212-2YMP-TR](#)

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[MIC45205-1YMP-TR](#)

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B1QFN-52



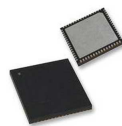
[MIC45404YMP-TR](#)

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[MIC28304-1YMP-TR](#)

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B1QFN-64



[MIC28304-2YMP-TR](#)

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B1QFN-64