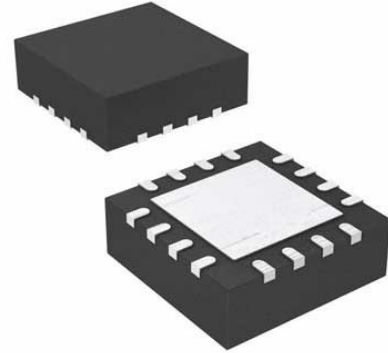


IC REG CTRLR BUCK 16VQFN

Manufacturers	Microchip Technology, Inc
Package/Case	VQFN-16
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MIC2127AYML-TR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MIC2127A is a constant-frequency synchronous buck controllers featuring a unique adaptive ON-time control architecture. The MIC2127A operates over an input voltage range from 4.5V to 75V and can be used to supply load current up to 25A (Thermally Limited) . The output voltage is adjustable down to 0.6V with a guaranteed accuracy of $\pm 1\%$. The device operates with programmable switching frequency from 200kHz to 800kHz.

The MIC2127A offers a full suite of protection features to ensure protection of the IC during fault conditions. These include undervoltage lockout to ensure proper operation under power-sag conditions, Internal Soft Start, "hiccup" mode short-circuit protection, and thermal shutdown.

Features

Hyper Speed Control® architecture enables:

4.5V to 75V input voltage

Adjustable output voltage from 0.6V to 30V

200kHz to 800kHz programmable switching frequency

Internal soft start

Enable input and power good output

Built-in 5V regulator for single-supply operation

Programmable current limit and "hiccup" mode short-circuit protection

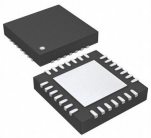
Mode pin for selecting CCM and DCM operation

Internal compensation, and thermal shutdown

Supports safe start-up into a pre-biased output

Available in 16-pin 3mm x 3mm QFN package

Related Products



[MIC27600YJL-TR](#)

Microchip Technology, Inc
VQFN-28



[MIC94073YC6-TR](#)

Microchip Technology, Inc
SC-70-6



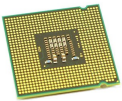
[DSC6001MI2B-027.0000T](#)

Microchip Technology, Inc
VLGA



[DSC6101MI1B-050.0000T](#)

Microchip Technology, Inc
VLGA



[DSC6111MI3B-025.0000T](#)

Microchip Technology, Inc
VLGA



[DSC6111MI2B-100.0000T](#)

Microchip Technology, Inc
VLGA



[DSC6101MI1B-024.0000T](#)

Microchip Technology, Inc
VLGA



[DSC6102MI3B-038.4000T](#)

Microchip Technology, Inc
VLGA