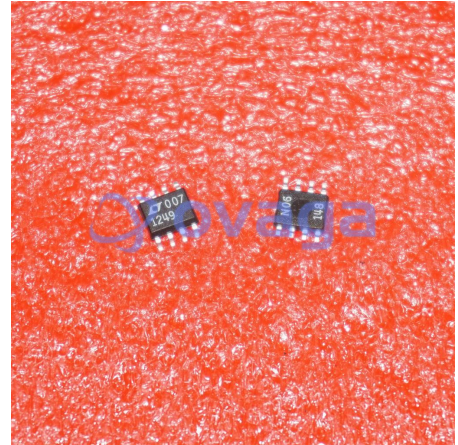


IC PFC CTRLR AVERAGE CURR 8SOIC

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP8
Product Type	PMIC - PFC (Power Factor Correction)
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1249CS8#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The 8-pin LT1249 provides active power factor correction for universal offline power systems with very few external parts. By using fixed high frequency PWM current averaging without the need for slope compensation, the LT1249 achieves far lower line current distortion, with a smaller magnetic element than systems that use either peak current detection or zero current switching approach, in both continuous and discontinuous modes of operation.

The LT1249 uses a multiplier containing a square gain function from the voltage amplifier to reduce the AC gain at light output load and thus maintains low line current distortion and high system stability. The LT1249 also provides filtering capability to reject line switching noise which can cause instability when fed into the multiplier. Line current dead zone is minimized with low bias voltage at the current input to the multiplier.

The LT1249 provides many protection features including peak current limiting and overvoltage protection. The switching frequency is internally set at 100kHz.

While the LT1249 simplifies PFC design with minimal parts count, the LT1248 provides flexibilities in switching frequency, overvoltage and current limit.

## Features

Standard 8-Pin Packages

High Power Factor Over Wide Load Range with Line Current Averaging

International Operation Without Switches

Instantaneous Overvoltage Protection

Minimal Line Current Dead Zone

Typical 250 $\mu$ A Start-Up Supply Current

Rejects Line Switching Noise

Synchronization Capability

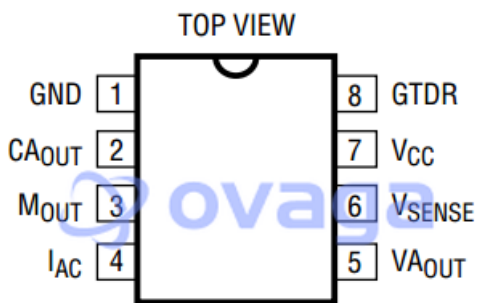
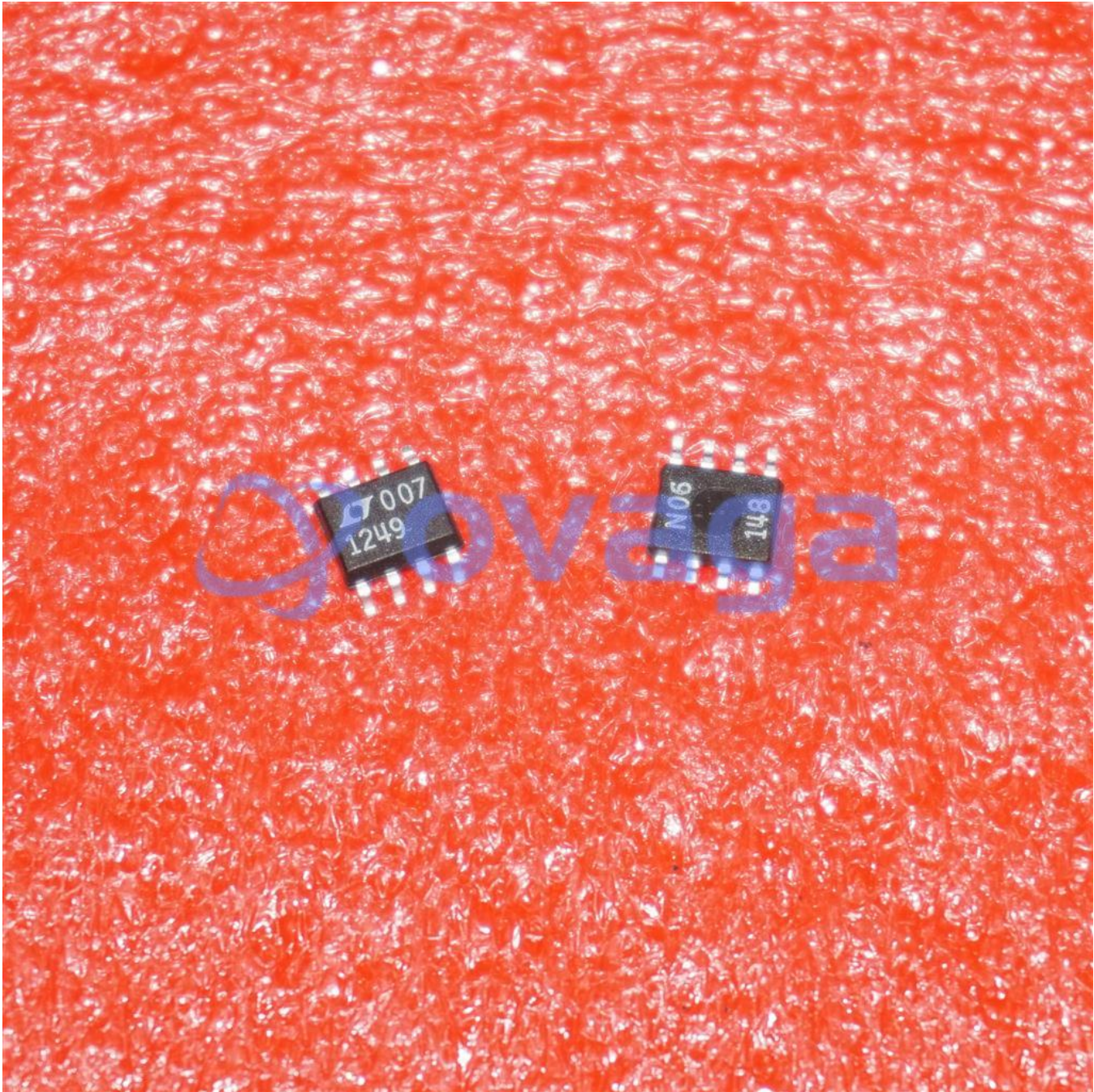
Low Quiescent Current: 9mA

Fast 1.5A Peak Current Gate Driver

## Application

Universal Power Factor Corrected Power Supplies

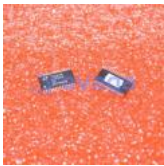
Preregulators up to 1500W



N8 PACKAGE  
8-LEAD PDIP  
S8 PACKAGE  
8-LEAD PLASTIC SO

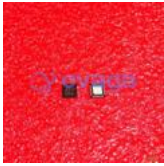
#### Related Products

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[LT3763EFE](#)

Analog Devices, Inc  
TSSOP28



[LTC4417IUF](#)

Analog Devices, Inc  
QFN-24



[LTC1966CMS8#PBF](#)

Analog Devices, Inc  
MSOP-8P



[LTM8045EX#PBF](#)

Analog Devices, Inc  
BGA40



[LT1038CK](#)

Analog Devices, Inc  
TO-3



[LTC3440EMS](#)

Analog Devices, Inc  
MSOP10



[LTC2990IMS#PBF](#)

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