

Rail-to-Rail, 1.8-12V Quad Channel Operational Amplifier, Ta = -40 to +105°C - Pb-free;  
Package: PDIP-14; No of Pins: 14; Container: Rail; Qty per Container: 500, Op Amps 1.8-12V Quad Rail to Rail -40 to 105 Cel

Manufacturers	<a href="#">ON Semiconductor, LLC</a>
Package/Case	PDIP-14
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MC33204PG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The MC33201/2/4 family of op-amps provides rail-to-rail operation on both the input and output. The inputs can be driven as high as 200mV beyond the supply rails without phase reversal on the outputs, and the output can swing within 50 mV of each rail. This rail-to-rail operation enables the user to make full use of the supply voltage range available. It is designed to work at very low supply voltages ( $\pm 0.9$  V) yet can operate with a supply of up to +12V and ground. Output current boosting techniques provide a high output current capability while keeping the drain current of the amplifier to a minimum. Also, the combination of low noise and distortion with a high slew rate and drive capability make this an ideal amplifier for audio applications.

## Features

Low Voltage, Single Supply Operation (+1.8 V and Ground to +12 V and Ground)

Input Voltage Range Includes both Supply Rails

Output Voltage Swings within 50 mV of both Rails

No Phase Reversal on the Output for Over-driven Input Signals

High Output Current>

Low Supply Current>

600  $\Omega$  Output Drive Capability

Extended Operating Temperature Ranges (-40°to +105°C and -55°to +125°C)

Typical Gain Bandwidth>

## Application

ONSEMI

## Related Products



### [MC33204DR2G](#)

ON Semiconductor, LLC  
SOIC-14



### [MC34074ADG](#)

ON Semiconductor, LLC  
SOIC-14



### [MC3403DG](#)

ON Semiconductor, LLC  
SOIC-14



### [MC33178P](#)

ON Semiconductor, LLC  
DIP-8



### [MC33074DR2G](#)

ON Semiconductor, LLC  
SOIC-14



### [MC33201PG](#)

ON Semiconductor, LLC  
8-PDIP



### [MC33204DTBR2G](#)

ON Semiconductor, LLC  
TSSOP-14



### [MC34074VDG](#)

ON Semiconductor, LLC  
SOIC-14