



LinearDimensions
SEMICONDUCTOR

LND-MA32

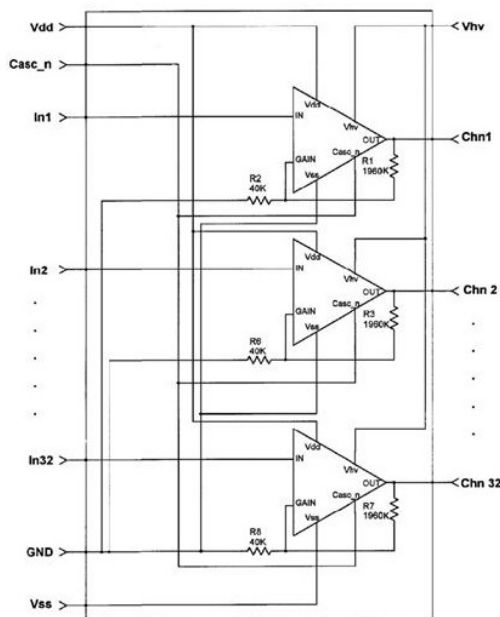
32 Channel High Voltage Amplifier (Call Factory for Fewer Channels)

GENERAL DESCRIPTION

The MA32 is a precision 32 channel high voltage driver for capacitive loads such as micro electromechanical systems (MEMS). The gain of each high voltage driver is internally set for 50 V/V. This allows a 0 to 5V DAC input to drive each channel linearly from 0 to approximately 250V. The internal gain setting resistors have a total series resistance $\geq 2\text{M}\Omega$ to minimize static power dissipation when outputs are at high voltage.

The MA32 is packaged in a 240 pin quad-flat pack (QFP).

BLOCK DIAGRAM



FEATURES

- 32 Opamp Gain Channels
 - 50 V/V Fixed Gain
 - $2\text{M}\Omega$ Gain Resistance
 - $290\mu\text{A}$ Output Current Capability (each channel)
 - Max 1.5% Gain Error Between Channels
- High Voltage Operation, 300V V_{in}
- Available in 240 QFP or;
- Bare Die for Hybrid

APPLICATIONS

- High Voltage Linear Drivers for mechanically actuated MEMS (micro electro mechanical systems)
- Instrumentation Systems
- Test Systems

PACKAGE DRAWING

