



**LinearDimensions**  
SEMICONDUCTOR

**LND-MA32**

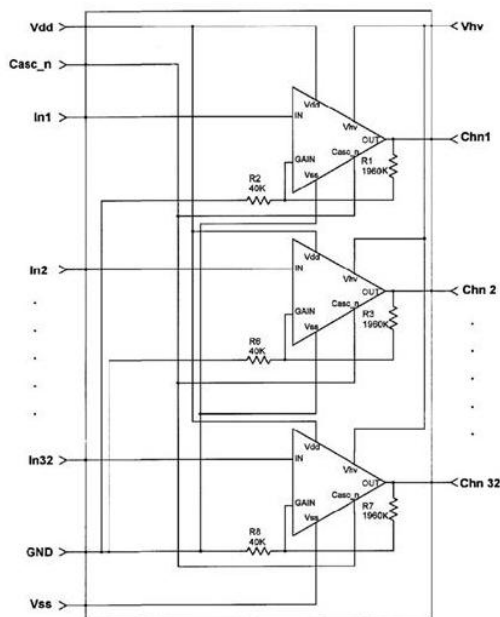
## 32 Channel High Voltage Amplifier (Call Factory for Fewer Channels)

### 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 selection of a 0 to 5V DAC for driving 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
  - 290uA Output Current Capability (each channel)
  - Max 1.5% Gain Error Between Channels
- High Voltage Operation, 300V Vin
- 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

