

## 1MHz, Rail-to-Rail I/O CMOS Operational Amplifiers

### FEATURES

- Rail-to-Rail Input/Output
- High Slew Rate: 1V/ $\mu$ S
- Low Input Bias Current: 1pA at 25°C(TYP)
- Gain Bandwidth Product: 1MHz
- Low Offset Voltage Drift: 3 $\mu$ V/°C (TYP)
- Low Power Consumption: 90 $\mu$ A at 5V (Per Amplifier)
- Low Supply Voltage: 2.5V to 5.5V
- Extended Temperature: -40°C to +125°C

### APPLICATIONS

- Battery-Powered Applications
- Portable Devices
- Signal Conditioning
- Active Filtering
- Current Sensor Amplifier
- Weight Scale Sensor
- Medical/Industrial Instrumentation
- Instrumentation

### PRODUCT DESCRIPTION

LMV321/LMV358/LMV324 are the most cost-effective amplifiers for low voltage, low power consumption and low-cost applications. The rail-to-rail output and rail-to-rail inputs that exceed power supply range make the LMV321 series easy to use for very low voltage supply applications.

Low  $I_B$  feature of these amplifiers allows the parts to be ideal for many sensor applications. 1MHz GBW and 1V/ $\mu$ s slew rate under low power supply voltage can meet almost all sensor requirement.

Small Packages:

LMV321 in a SOT-23-5L and SOT-353

LMV358 in a SOP8 and MSOP8

LMV324 in a SOP14 and TSSOP14

### PIN ASSIGNMENTS

