

## Low power, Single, SOT-23-5, Rail-to-rail OP Amp

### Features

- Single-Supply Operation: 4V to 6V
- High Output Current:  $\pm 100\text{mA}$
- Low Supply Current:  $500\mu\text{A}$
- Wide Bandwidth: 3MHz
- Slew Rate:  $4\text{V}/\mu\text{s}$
- No Phase Reversal
- Unity Gain Stable
- Small, 5-Pin SOT-23 Package available

### Applications

- Battery-Powered Instruments
- Portable Equipment
- Data-Acquisition Systems
- High-Side/Low-Side Current Sensors
- ASIC Input or Output Amplifier
- Signal Conditioning
- Low-Power, Low voltage Applications

### General Description

The G1213 is a rail-to-rail input and output single-supply amplifiers featuring 100mA output drive current. This high output current makes these amplifiers excellent for driving either resistive or capacitive loads. AC performance is very good with 3.0MHz bandwidth;  $4.0\text{V}/\mu\text{s}$  slew rate and low distortion. All are guaranteed to operate from a +4 to +6 volt single supply.

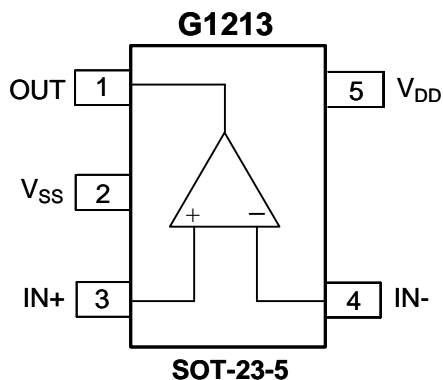
The very low input bias currents enable the G1213 to be used for integrators and diode amplification and other applications requiring low input bias current. The 100mA high output current and supply current is only  $850\mu\text{A}$  per amplifier at 5 volts, allowing low current applications to control high current loads.

Applications include audio amplification for computers, sound ports, sound cards and set-top boxes. The G1213 is very stable and capable of driving heavy capacitive loads. The ability to swing rail-to-rail at the inputs and outputs enables designers to buffer CMOS ADC/DACs, ASICs or other wide output swing devices in single-supply systems.

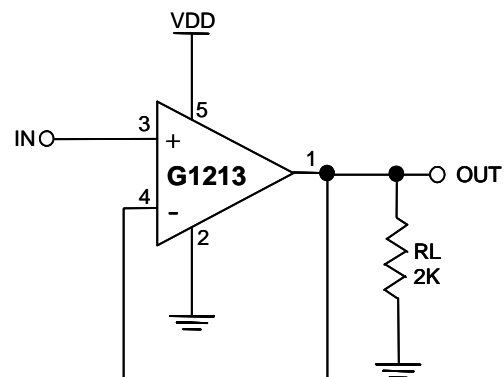
### Ordering Information

ORDER NUMBER	ORDER NUMBER (Pb free)	MARKING	TEMP. RANGE	PACKAGE
G1213	G1213f	13xx	-20°C to +85°C	SOT-23-5

### Pin Configuration



### Typical Application Circuit



Rail-to-Rail is a registered trademark of Nippon Motorola, Ltd.