

## Rail-to-Rail I/O, High-Slew-Rate OP Amp

### Features

- +2.2V to +7V Single-Supply Operation
- Input / Output Rail-to-Rail
- Low Input Current
- High Output Driving Capacity
- Low Quiescent Current: 500 $\mu$ A @ 5V
- High Slew Rate 6.5V/ $\mu$ s
- High Gain-Bandwidth Product 6.5MHz
- High Open Loop Gain 95dB
- High PSRR 70dB

### Applications

- Headphone Driver
- Portable Equipment
- Battery-Powered Equipment
- Multimedia Audio
- ASIC Input or Output Amplifier
- Sensor Amplifier
- Low Power/Low Voltage Applications
- Set-up Box Audio HP or Pre-driver Applications

### General Description

G1214 is a input/output rail-to-rail Operational Amplifier. It can be operated from +2.2V to +7V single supply or from  $\pm 1.1V$  to  $\pm 3.5$  dual supply. G1214 can drive 66mA into resistor loads to within 10% power rail. AC performance is very excellent with 6.5MHz bandwidth, 6.5V/ $\mu$ s Slew Rate, 95dB open loop gain, 60 degree phase margin and low distortion.

Supply current of G1214 is only 500 $\mu$ A per Amplifier. It is very suitable for low current consumption applications to control high current loads. Applications include audio amplification for computers, sound ports, sound cards and set-top boxes.

G1214 is housed in a 5-pin small SOT-23-5 and SC-70-5 (SOT-353) package.

### Ordering Information

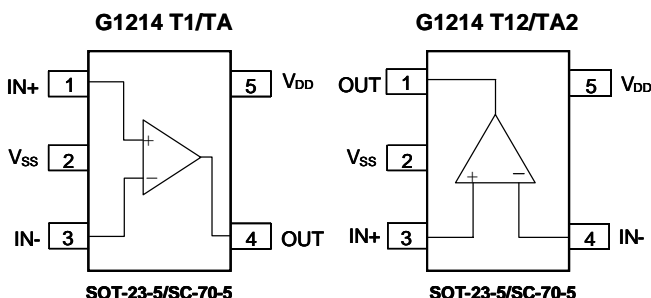
ORDER NUMBER (Pb free/Green)	MARKING	TEMP. RANGE	PACKAGE
G1214T1Uf	1214x	-40°C to 85°C	SOT-23-5
G1214TAUf	1214x	-40°C to 85°C	SC-70-5 (SOT-353)
G1214T12Uf	214Ax	-40°C to 85°C	SOT-23-5
G1214TA2Uf	14xx	-40°C to 85°C	SC-70-5 (SOT-353)

Note:T1: SOT-23-5 TA: SC-70-5 (SOT-353)

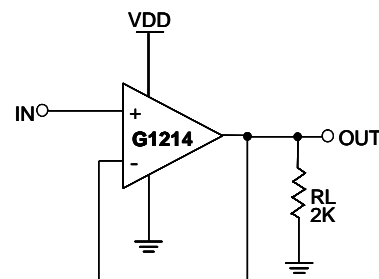
2: Bonding Code

U: Tape & Reel

### Pin Configuration



### Typical Application Circuit



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