

## Low Quiescent Current Rail-to-Rail Operation Amplifier

### Features

- Wide Supply Operation Range +2.7V to +16.5V
- Input Common Voltage Range Beyond the Rails
- Rail-to-Rail Output Voltage Swing
- Low Input Offset Voltage 3mV (Typical)
- Bandwidth (unit gain) 110kHz
- Low Quiescent Current: 7 $\mu$ A
- Large DC Voltage Gain 75dB (Typical)
- Slew-Rate 0.14V/ $\mu$ s
- Unit-Gain Stable

### Applications

- Portable Equipment
- LCD-TV Equipment
- Battery-Powered Equipment
- ASIC Input or Output Amplifier
- Low Power/Low Voltage Applications

### General Description

The G1570 consists of one independent, high gain, internally frequency compensated operational amplifiers which were designed to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible. The input common mode range of the G1570 can be beyond the rails, and the G1570 are with rail-to-rails output voltage swing. The quiescent current is very low, only about 7 $\mu$ A.

The bandwidth of the G1570 is about 110kHz. The slew-rate of the G1570 is 0.14V/ $\mu$ s. The output swing of the G1570 is rail-to-rail. The G1570 is very suitable to use in the power-saving system applications.

The G1570 is housed in a 5-pin TSOT-23 packages.

### Ordering Information

| ORDER NUMBER | MARKING | TEMP. RANGE | PACKAGE (Green) |
|--------------|---------|-------------|-----------------|
| G1570TO1U    | 1570x   | -40°C~+85°C | TSOT-23-5       |

Note: TO: TSOT-23-5

1 : Bonding Code

U: Tape & Reel

### Pin Configuration

