Low Power Operational Amplifier

Features

- **Wide Supply Operation Range +4.5V to +19.5V**
- **Input Common Voltage Range Beyond the Rails**
- **Rail-to-Rail Output Voltage Swing**
- **High Source/Sink Capability 1300mA**
- **Low Input Offset Voltage 3mV (Typical)**
- **Wide -3dB Bandwidth 35MHz**
- **Quiescent Current: 5.5mA**
- **Large DC Voltage Gain 80dB (Typical)**
- **Slew-Rate 80V/μs**
- **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 G1577 consists of one independent, high gain, internally frequency compensated operational amplifiers which was 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 G1577 can be beyond the rails, and the G1577 is with rail-to-rails output voltage swing. The quiescent current is 5.5mA, typically.

The G1577 also feature fast slewing and settle-times, as well as high output drive capability of 1300mA (source/sink). These features make this amplifier ideal for use as reference buffers for TFT-LCD. Other applications include battery power, portable devices, and anywhere low power consumption is important.

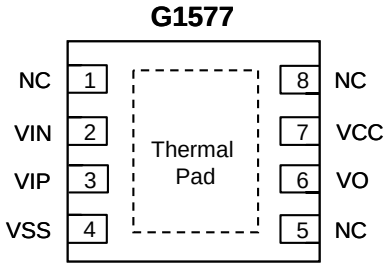
The G1577 is housed in a TDFN3X3-8 package.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G1577RD1U	1577	-40°C~ +85°C	TDFN3X3-8

Note: RD: TDFN3x3-8
1: Bonding Code
U: Tape & Reel

Pin Configuration



TDFN3X3-8

Note: Recommend connecting the Thermal Pad to the Ground for excellent power dissipation.