

LOW POWER DUAL OPERATIONAL AMPLIFIERS

Description

The LM358 consists of two independent, high gain and internally frequency compensated operational amplifiers, it is specifically designed to operate from a single power supply. Operation from split power supply is also possible and the low power supply current drain is independent of the magnitude of the power supply voltages.

Features

- Internally Frequency Compensated for Unity Gain
- Large Voltage Gain: 100dB (Typical)
- Low Input Bias Current: 20nA (Typical)
- Low Input Offset Voltage: 2mV (Typical)
- Low Supply Current: 0.7mA (Typical)
- Wide Power Supply Voltage Range:
Single Supply: 3V to 18V
Dual Supplies: $\pm 1.5V$ to $\pm 9V$
- Input Common Mode Voltage Range Includes Ground
- Large Output Voltage Swing: 0V to $V_{CC}-1.5V$
- Power Drain Suitable for Battery Operation

Applications

- Battery Charger
- Cordless Telephone
- Switching Power Supply

Benefits

- Easier to use
- Meet most application requirements of the industrial standard 358
- Very competitive price

Parametric Table

Input Voltage Range (V)		3 to 18
		± 1.5 to ± 9
Input Offset Voltage (Typ/Max) (mV)	YD358	2 .0/5.0
Input Offset Current (nA)(Typ)		5
Quiescent Current Over Full Temperature Range (mA)(Typ)		0.7
Large Signal Voltage Gain (dB)(Typ)		100
CMRR (dB)(Typ)		90
PSRR (dB)(Typ)		90
Output Current Source (mA)(Typ)		20
Output Current Sink (mA)(Typ)		8
Operating Temperature Range ($^{\circ}C$)		-40 to 85

Additional Available Materials

- Samples
- Data Sheet

Pin Configuration

SOIC-8/DIP8

