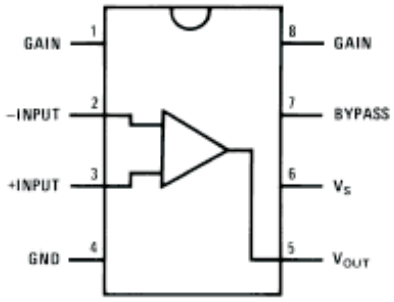
Single Supply Operational Amplifiers

■ Features

- Battery operation
- Minimum external parts
- Wide supply voltage range: 5V-18V
- Low quiescent current drain: 4 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion



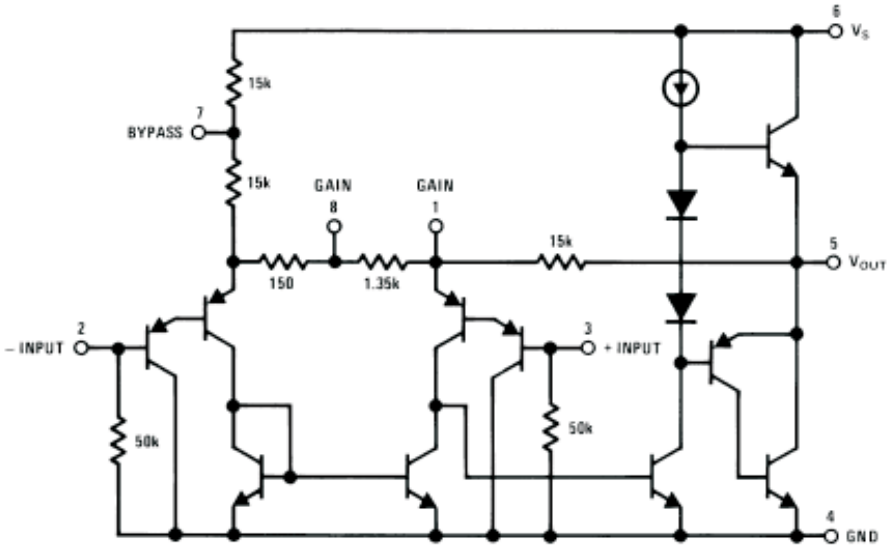
SOP8



■ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply Voltage	V_{CC}	22	V
Package Dissipation	P_D	1.25	W
Input Voltage	V_I	±0.4	V
Storage Temperature	T_{STG}	-65 to 150	℃
Operating Temperature	T_A	0 to 70	℃
Junction Temperature	T_J	+150	℃
Soldering Information (10sec)		+260	℃
Themal Resistance.Junction-to-Ambient	$R_{\theta JA}$	172	℃/W
Themal Resistance.Junction-to-Case	$R_{\theta C}$	35	℃/W

■ Equivalent Schematic and Connection Diagrams



■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Operating Supply Voltage	V_S		5		18	V
Quiescent Current	I_Q	V_S = 6V, V_{IN} =0		4	8	mA
Output Power	P_{OUT}	V_S = 16V, R_L = 32Ω, THD = 10%	700	1000		mW
Voltage Gain	A_V	V_S = 6V, f = 1 kHz 10 μF from Pin 1 to 8		26 46		dB
Bandwidth	BW	V_S = 6V, Pins 1 and 8 Open		300		KHz
Total Harmonic Distortion	THD	V_S = 6V, R_L = 8Ω, P_{OUT} = 125 mW,f = 1 kHz, Pins 1 and 8 Open		0.2		%
Power Supply Rejection Ratio	PSRR	V_S = 6V, f = 1 kHz, C_{BYPASS} = 10 μF Pins 1 and 8 Open, Referred to Output		50		dB
Input Resistance	R_{IN}			50		KΩ
Input Bias Current	I_{BIAS}	V_S = 6V, Pins 2 and 3 Open		250		nA