

## Single Supply Dual Operational Amplifiers

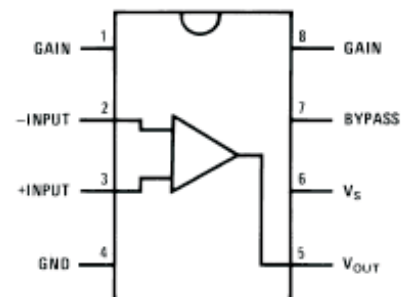
### KM386

#### ■ 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

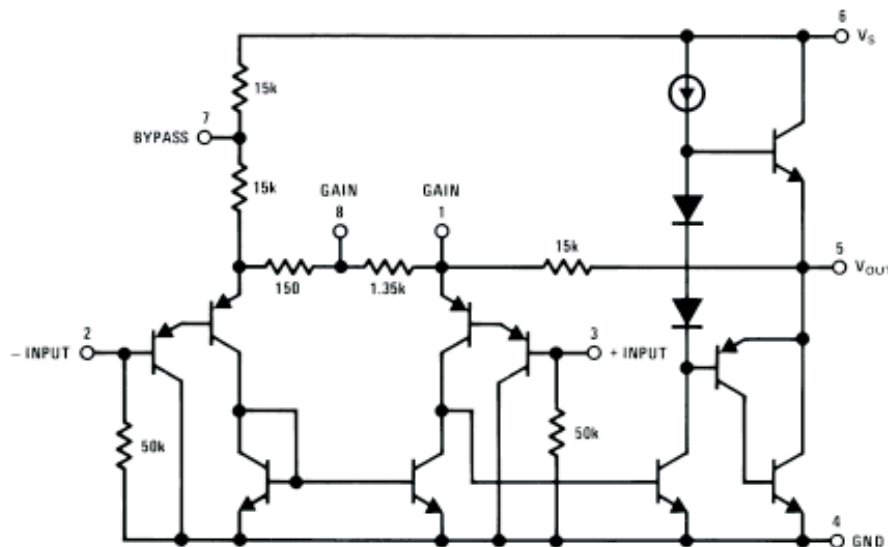


#### ■ Absolute Maximum Ratings

Parameter	Symbol	Rating	Unit
Supply Voltage	V <sub>CC</sub>	22	V
Package Dissipation	P <sub>D</sub>	1.25	W
Input Voltage	V <sub>I</sub>	±0.4	V
Storage Temperature	T <sub>STG</sub>	-65 to 150	°C
Operating Temperature	T <sub>A</sub>	0 to 70	°C
Junction Temperature	T <sub>J</sub>	+150	°C
Soldering Information (10sec)		+260	°C
Thermal Resistance.Junction-to-Ambient	R <sub>θJA</sub>	172	°C/W
Thermal Resistance.Junction-to-Case	R <sub>θC</sub>	35	°C/W

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### ■ Equivalent Schematic and Connection Diagrams



### ■ Electrical Characteristics $T_a = 25^\circ\text{C}$

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