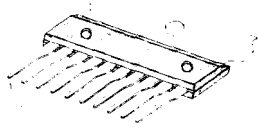
DUAL POWER OPERATIONAL AMPLIFIER

The KA9256 is a dual power operational amplifier with an output maximum current of 1.0A ($V_S = \pm 15V$). It can be used as an arm driver for player, a driver for brush motors forward and reverse rotation control and an output driver for a hole motor.

10 SIP H/S



FEATURES

- Interal current limiting: $I_{SC} = 350mA$ ($R_{SC} = 2.2$)
- High output current: $I_O = 500mA$ max
- 10 SIP H/S package
- Internal phase compensation type

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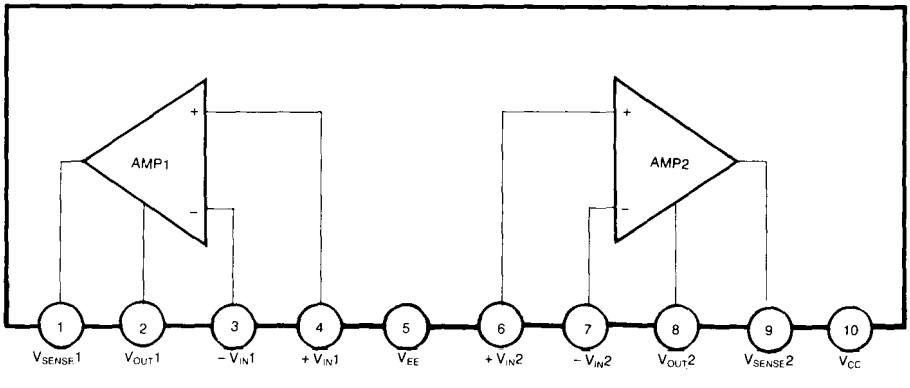
ORDERING INFORMATION

Device	Package	Operating Temperature
KA9256	10 SIP H/S	-25°C ~ +75°C

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Value	Unit
Supply Voltage	V_{CC}	±8	V
Output Current	I_O	1.0	A
Power Dissipation	P_D	12.5	W
Operating Temperature Range	T_{OPR}	−25 ~ +75	°C
Storage Temperature Range	T_{STG}	−65 ~ +150	°C

ELECTRICAL CHARACTERISTICS

(V_{CC} = +15V, V_{EE} = −15V, Ta = 25°C, unless otherwise specified)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Input Offset Voltage	V_{IO}			2	6	mV
Input Offset Current	I_{IO}			10	200	nA
Input Bias Current	I_{BIAS}			100	700	nA
Supply Current	I_{CC}			10	20	mA
Output Voltage Swing	$V_{O(P-P)}$	$R_L = 33\Omega$	±12	±13		V
Large Signal Voltage Gain	A_V			100		dB
Input Voltage Range	V_I		±12	±14		V
Common Mode Rejection Ratio	CMRR		70	90		dB
Power Supply Rejection Ratio	PSRR			50	150	μV/V
Bandwidth	BW			1.0		MHz
Slew Rate	SR	$A_V = 1$, $R_L = 33\Omega$, $R = 10\Omega$, $C = 0.1\mu F$		0.15		V/μS
Limiting Current	I_{LIM}	$R_{SC} = 2.2\Omega$		0.35		A
Cross Talk	CT	$R_L = 33\Omega$, $V_O = 1V_{P-P}$		60		dB