

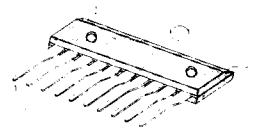
DUAL POWER OPERATIONAL AMPLIFIER

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.

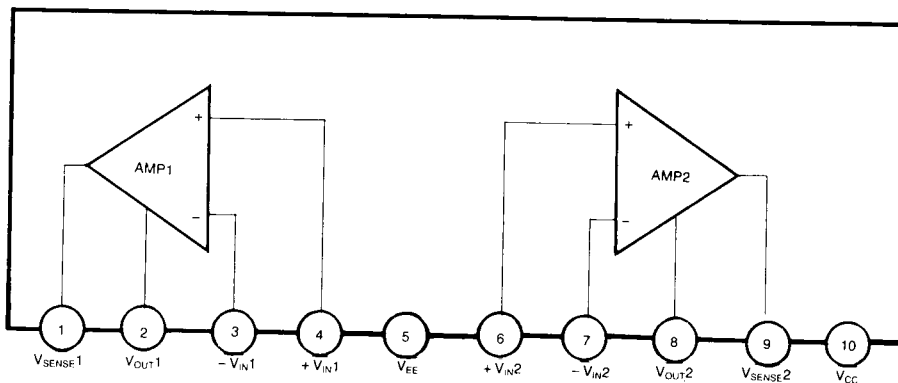
FEATURES

- Internal 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

10 SIP H/S

**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 | $^{\circ}\text{C}$ |
| Storage Temperature Range | T_{STG} | -65 ~ +150 | $^{\circ}\text{C}$ |

ELECTRICAL CHARACTERISTICS

($V_{CC} = +15\text{V}$, $V_{EE} = -15\text{V}$, $T_a = 25^{\circ}\text{C}$, 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 | $\mu\text{V}/\text{V}$ |
| Bandwidth | BW | | | 1.0 | | MHz |
| Slew Rate | SR | $A_V = 1$, $R_L = 33\Omega$, $R = 10\Omega$, $C = 0.1\mu\text{F}$ | | 0.15 | | $\text{V}/\mu\text{S}$ |
| 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 |