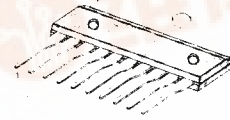


### DUAL POWER OPERATIONAL AMPLIFIER

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



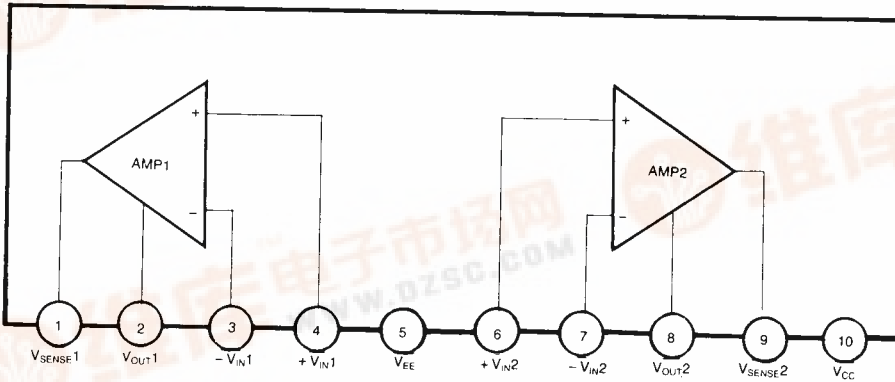
### FEATURES

- 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

### 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	$V_{CC}$	$\pm 8$	V
Output Current	$I_O$	1.0	A
Power Dissipation	$P_D$	12.5	W
Operating Temperature Range	$T_{OPR}$	- 25 - + 75	$^{\circ}$ C
Storage Temperature Range	$T_{STG}$	- 65 - + 150	$^{\circ}$ C

## ELECTRICAL CHARACTERISTICS

(V<sub>CC</sub> = +15V, V<sub>EE</sub> = -15V, T<sub>a</sub> = 25 $^{\circ}$ 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	$V_{O(P-P)}$	$R_L = 33\Omega$	$\pm 12$	$\pm 13$		V
Large Signal Voltage Gain	$A_V$			100		dB
Input Voltage Range	$V_I$		$\pm 12$	$\pm 14$		V
Common Mode Rejection Ratio	CMRR		70	90		dB
Power Supply Rejection Ratio	PSRR			50	150	$\mu$ V/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/ $\mu$ 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