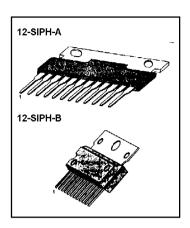


INTRODUCTION

The KA9257, a monolithic integrated circuit, is a dual power operational amplifier with a maximum output current of 0.5A. Since it consists of a balance transless, both forward and reverse operation of the motor can be achieved on a single power source. The device is suitable for a CD player.

FEATURES

- 2 channel BTL driver
- Low input bias (lib =30nA)
- Built in phase compensation capacitor
- Housed in a 12SIP H/S package for easy heat discharge
- Improved crosstalk: (CT = 80dB)
 High output current: (I_O = 0.5A)



ORDERING INFORMATION

Device	Package	Operating Temperature
KA9257	12-SIPH-A	-25℃~+75℃
KA9257S	12-SIPH-B	

BLOCK DIAGRAM

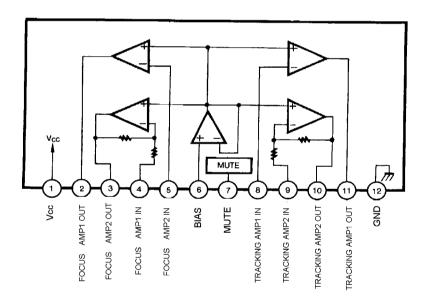


Fig. 1



ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	V _{cc}	18	V
Power Dissipation	P _D	15	W
Operating Temperature	T _{OPR}	- 25 ~ + 75	$^{\circ}$
Storage Temperature	T _{STG}	-55 ~ + 150	$^{\circ}$

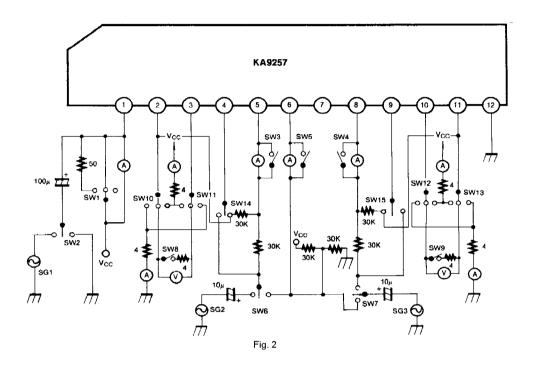
ELECTRICAL CHARACTERISTICS

(Ta = 25 $^{\circ}\!\!\mathrm{C}$, V_{CC} = 12V, f = 1KHz, R_L = 4ohm, unless otherwise specified)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Quiescent Circuit Current	Icca	V ₁ = 0	-	3	10	mA
Input Bias Current	I _{BIAS 1}	V _I = 0	-	30	100	nΑ
Input Bias Pin Current	I _{BIAS 2}	V _I = 0	-	100	300	nA
Output Offset Voltage	Voo	V _I = 0	-50	0	50	mV
Maximum Source Current	Isource	R _L = 4ohm, V _O = GND	0.7	1.4	-	Α
Maximum Sink Current	I _{SINK}	R_L =4ohm, V_O = V_{CC}	0.4	0.8	-	Α
Maximum Output Voltage	V _{O (MAX)}	V _I = 2Vrms	1.8	2.5	-	V _{rms}
Closed Loop Voltage Gain	G _{VC}	V _I = 0.1Vrms	5.0	6.0	7.0	dB
Cut-off Frequency	f _T	V _I = 0.1Vrms, 3dB Down	15	20	-	KHz
Cross-Talk	СТ	V _I = 0.1Vrms, BPF: 20-20KHz	40	80	-	dB
Ripple Rejection Ratio	RR	V _{RR} = 0.1Vrms F _{RR} = 120Hz	30	40	-	dB
Slew-Rate	SR	V _I = 0.3V _{PP} Squarwave	-	0.3	-	V/μS

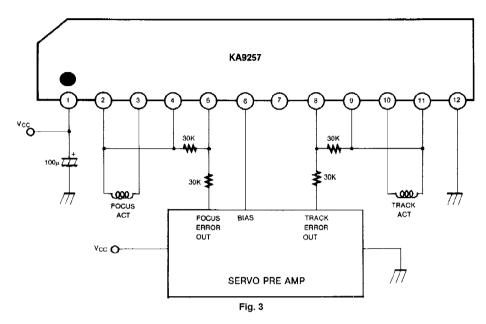


TEST CIRCUIT





APPLICATION CIRCUIT



Precautions

- In desgning the board, a minimum of 6cms of segregation should be allowed between the motor drive IC (KA9257) and other components such as the micom and/or Recorder/Player Ics.
 To get a stable supply of voltage and radiation shield effect, the CD Deck needs to be grounded.



