

Power driver IC for CD player

BA5826FP

BA5826FP is a 4-channel BTL driver for compact disc player.

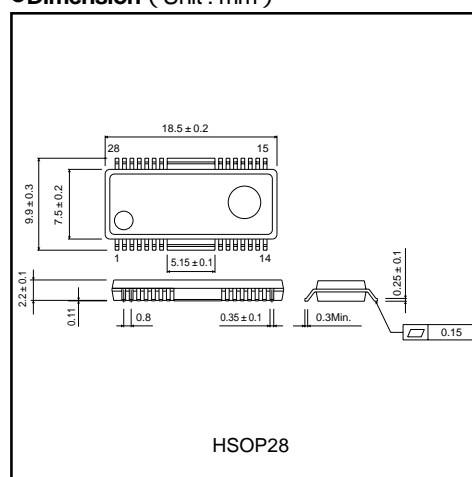
●Applications

CD player

●Features

- 1) 4 channel BTL driver.
- 2) Reduction of the set space by HSOP28 power package.
- 3) Gain adjustable by external resistor.
- 4) Built-in thermal shutdown circuit.
- 5) Built-in 3.3V regulator.
- 6) Built-in general purpose OP amp.
- 7) Built-in 2.7V reset circuit.
- 8) Reset delay time adjustable by external capacitor.

●Dimension (Unit : mm)



●Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	V _{CC}	13.5	V
Power dissipation	P _d	1.7 *	W
Operating temperature range	T _{opr}	-35~+85	°C
Storage temperature range	T _{stg}	-55~+150	°C

*Derating:13.6mW/°C for operation above Ta=25°C

●Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Supply voltage	V _{CC}	4.5	—	9	V

Optical disc ICs

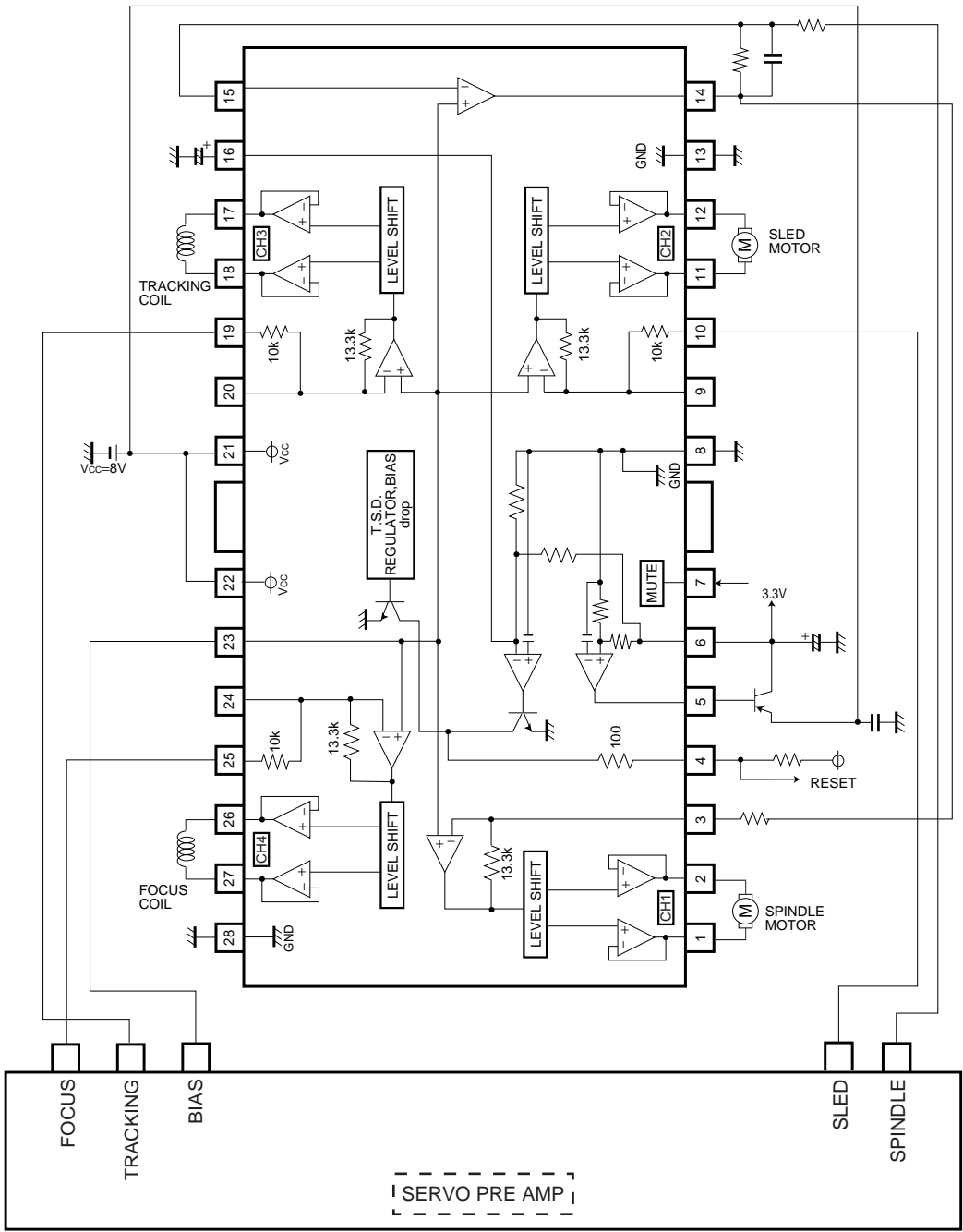
●Electrical characteristics

(Unless otherwise noted, Ta=25°C, V_{CC}=8V, V_{BIAS}=1.65V, R_L=8Ω)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Quiescent current	I _{CC}	6.0	10.0	14.0	mA	R _L =∞
CH1 maximum output voltage	V _{OM1}	4.35	5.0	—	V	V _{BIAS} =4V
CH1 closed loop voltage gain	G _{VC1}	6.0	8.0	10.0	dB	
CH2,3,4 maximum output voltage	V _{OM2}	4.3	4.9	—	V	V _{BIAS} =4V
CH2,3,4 closed loop voltage gain	G _{VC2}	7.0	8.0	9.0	dB	
Regulator output voltage	V _{REG}	3.13	3.30	3.47	V	I _L =100mA
Regulator output load regulation	ΔV _{RL}	−20	0	10	mV	I _L =100–200mA
OP amp. offset voltage	V _{OFOP}	−6	—	6	mV	
OP amp. high-level output voltage	V _{OHOP}	7.5	—	—	V	V _{BIAS} =4V
OP amp. low-level output voltage	V _{OLOP}	—	—	0.3	V	V _{BIAS} =4V

Optical disc ICs

●Application Circuit



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