

4-channel BTL driver BA5824FP

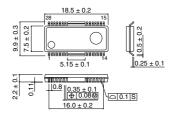
Description

BA5824FP incorporates 4-channel drivers that operate the motor and the actuator for car CD players. CH1,2 and CH3,4 each have power supply independently. The highly efficient drive can be achieved due to the low voltage operation. The input of CH4 can be switched by the control pin.

Features

- 1) Wide dynamic range
- 2) Built-in thermal shut down circuit
- 3) Built-in mute function by control pin and mute pin

Dimension (Units : mm)



HSOP28

Applications

CD players, DVD players

CD players, and DVD players for Car

■ Absolute Maximum Ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|-----------------------------|--------|---------------------------|------|
| Maximum applied voltage | Vcc | 18 | V |
| Power dissipation | Pd | 1700 | mW |
| Operating temperature range | Topr | − 35 ~ + 85 | °C |
| Storage temperature range | Tstg | − 55 ~ +150 | °C |

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

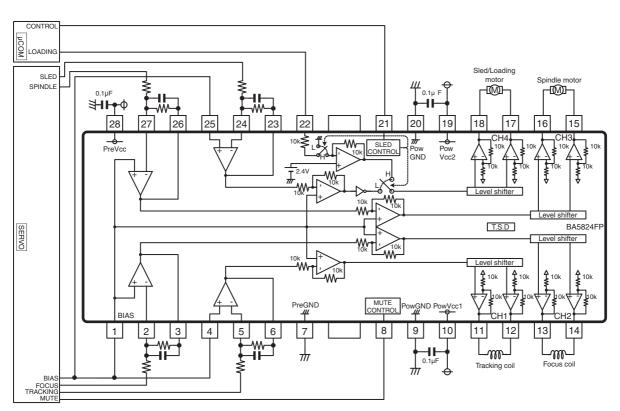
Recommended Operating Conditions (Ta=25°C)

| Parameter | Symbol | Min. | Тур. | Max. | Unit |
|--------------------------|--------|------|------|------|------|
| Power supply voltage Vcc | | 4.5 | 8 | 14 | V |

● Electrical characteristics (Unless otherwise noted; Ta=25°C, Vcc=8V)

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Conditions |
|----------------------------------|--------|------|------|------|------|------------|
| Consumption current at no signal | IQ | _ | 22 | 32 | mA | No load |
| Output offset voltage | Voof | -50 | 0 | 50 | mV | |
| Maximum output voltage | Vом | 5.4 | 6.0 | _ | V | |
| Voltage gain | Gvc | 10.0 | 11.7 | 13.4 | dB | VIN=±0.5V |
| Pre-Op. Amp offset voltage | Vofop | -6 | 0 | 6 | mV | |
| Pre-Op. Amp high level voltage | Vонор | 7.5 | 7.9 | _ | V | |
| Pre-Op. Amp low level voltage | VOLOP | _ | 0.2 | 0.5 | V | |

Application Circuit



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