

4-channel BTL driver for CD players

BA5948FP

BA5948FP is a 4-channel BTL driver for CD players. The adoption of HSOP28 package enables to make sets smaller. This IC incorporates thermal shutdown circuit and mute function with two mute pins. Gain can be controlled by external resistor in driver block.

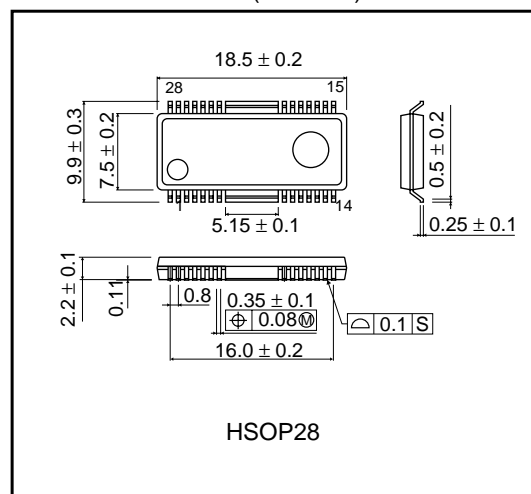
●Applications

CD players

●Features

- 1) 4-channel BTL driver
- 2) Set space saving by adoption of HSOP28
- 3) Built-in thermal shutdown circuit
- 4) Gain control by external resistor

●External dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Supply voltage	V_{CC} , PV_{CC1} , PV_{CC2}	18	V
Power dissipation	P_d	1700 *	mW
Operating temperature range	T_{opr}	-35 to +85	°C
Storage temperature range	T_{stg}	-55 to +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} , PV_{CC1} , PV_{CC2}	4.5	8	14	V

Optical Discs

●Electrical characteristics (Unless otherwise noted : Ta=25°C, V_{CC}=8V, BIAS=2.5V, R_L=8Ω, Rin=10kΩ)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Current consumption at no signal	ICC	-	7.5	15	mA	No load
CH1 output offset voltage	VOO1	-50	-	50	mV	
Maximum output amplitude	VOM1	5.1	5.6	6.1	V	
Close loop gain	GVC1	12.5	15.0	17.5	dB	
CH 2,3,4 output offset voltage	VOO2	-50	-	50	mV	
Maximum output amplitude	VOM2	4.0	4.6	5.1	V	
Close loop gain	GVC2	12.5	15.0	17.5	dB	
Mute OFF voltage	VMTOFF	-	-	0.5	V	
Mute ON voltage	VMTON	2.0	-	-	V	

●Application Circuit

