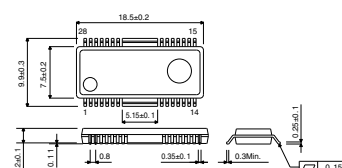


4-channel BTL driver BA5995FM

●Description

The BA5995FM is a 4-channel BTL driver that incorporates a CD loading driver to activate the disc unit in or out, sled driver to slide the pick-up, and actuator driver to control track and focus of the lens.

●Dimension (Units : mm)



HSOP-M28

●Features

- 1) HSOP-M28 power package
- 2) Wide dynamic range
- 3) Each power supply, PreVcc, PowVcc(CH1), PowVcc(CH2) and PowVcc(CH3,4) is arranged independently to drive efficiently.
- 4) All circuits can be placed in stand-by mode by switching all channels(1, 2, 3, 4) into stand-by mode.
- 5) Pre-driver operational amplifier is ground sense type.
Available for low voltage DSP due to Rail-to-Rail output.

●Applications

CD players

●Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	13.5	V
Power dissipation	Pd	2200	mW
Operating temperature range	Topr	-35 ~ +85	°C
Storage temperature range	Tstg	-55 ~ +150	°C

Derating : 17.6mW/°C for operation above Ta=25°C

●Recommended Operating Conditions (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	Vcc	4.5	12	13.2	V

●Electrical characteristics

(Unless otherwise noted; Ta=25°C, PreVcc=12V, PowVcc=5V, VBIAS=1.65V, RL=8 Ω)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Circuit current (No signal)		IQ	—	20	30	mA	No load
IQST (All CH: stand-by mode)		IQST3	—	—	1	mA	No load IQ (Only Pre)
D r i v e r	Output offset voltage	VOOF	−70	0	70	mV	
	Max. output amplitude 1	VOM1	3.6	4.0	—	V	VIN=VBias±1.65V
	Max. output amplitude 2	VOM2	7.5	9	—	V	VIN=VBias±1.65V, PowVcc=12V
	Voltage gain	GVC	16.6	17.6	18.6	dB	VIN=VBias±0.3V
	Slew rate	SRDRV	—	2	—	V/μs	Input square wave100kHz,2Vp-p
P r e / a m p	Input range (Buffer used)	VICM	0	—	9	V	
	Input offset voltage	VOFOP	−6	0	6	mV	
	Input bias current	VBOP	—	—	300	nA	
	High level output voltage	VOHOP	−6	0	6	mV	IL=+300μA, VIN=3.3V
	Low level output voltage	VOLOP	—	0.1	0.3	V	IL=−1mA
	Slew rate	SROP	—	2	—	V/μs	Input square wave100kHz,2Vp-p

This product is not designed for protection against radioactive rays.

- Application Circuit

