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5 Channel Drivers/Regulator for car Mini Disk BA5813FM

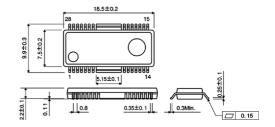
Description

The BA5813FM is a 5-channel driver including a 4-channel BTL driver and a 1-channel reversible motor driver and regulator for car applications. Separating the Vcc into Pre and Pow can make the unit morepower efficient.

Features

- 1) Wide dynamic range (4.0V typical at PreVcc=8V, PowVcc=5V)
- 2) The loading output voltage is adjustable by the voltage control terminal.
- 3) Variable regulator built-in
- 4) Thermal shut down circuit built-in
- 5) Small surface mount power package HSOP-M28

Dimension (Units : mm)



HSOP-M28

Applications

MD

● Absolute Maximum Ratings (Ta=25°C)

	9 1		
Parameter	Symbol	Limits	Unit
Power supply voltage	PREVcc, POWVcc	13.5	V
Power dissipation	Pd	2.2	W
Operating temperature range	Topr	− 40 ~ +85	°C
Storage temperature range	Tstg	− 55 ~ +150	°C

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

On less than 3% (percentage occupied by copper foil), 70mm 70mm, t=1.6mm, glass epoxy mounting.

● Guaranteed operating ranges (Ta=25 °C)

Parameter	Symbol	Min.	Тур.	Max.	Unit
Power supply voltage	PREVcc	4.3	_	13.2	٧
l ower supply voltage	POWVcc	4.3	_	PREVcc	V

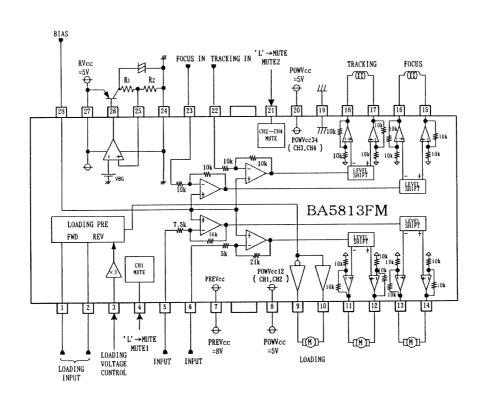
Electrical characteristics

(Unless otherwise noted, Ta=25°C, PREVcc=RVcc=8V, POWVcc1,2=5V, BIAS=1.65V, RL=8)

(5111000 01110111100 110100) 14-20	-,		, -	- , - ,		- / - /		
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions		
Quiescent current	Icc	_	17	23	mA	No load		
<btl driver=""></btl>								
Output offset voltage	Voo	-50	0	50	mV			
Maximum output voltage	Vом	3.6	4.0	_	V			
Closed loop voltage gain (CH1)	Gvc1	16.2	18.0	19.8	dB			
Closed loop voltage gain (CH2)	Gvc2	22.7	24.5	26.3	dB			
Closed loop voltage gain (CH3, 4)	Gvcз	10.5	12.0	13.5	dB			
<regulator></regulator>								
Threshold voltage of REG-P pin	VREGPTH	1.14	1.20	1.26	V			
Output sink current of REG-B pin	Isın	10	_		mA			
Input bias current of REG-P pin	Івор	_	20	300	nA			
<loading driver=""></loading>								
Output saturation voltage 1	VSAT1	0.7	1.1	1.5	V	IL=200mA (Upper + Lower)		
Output adjustable gain on "H" side voltage	Gvн	7.4	9.2	11.0	dB	"H" side output for GND		

^{*}This product is not designed for protection against radioactive rays.

Application circuit



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