

5 Channel Drivers/Regulator for car Mini Disk **BA5813FM**

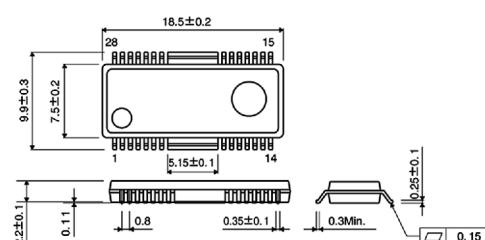
● Description

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)

● Dimension (Units : mm)



● Guaranteed operating ranges (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit
Power supply voltage	PREVcc	4.3	—	13.2	V
	POWVcc	4.3	—	PREVcc	V

● Electrical characteristics

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Quiescent current	Icc	—	17	23	mA	No load
<BTL driver>						
Output offset voltage	Voo	-50	0	50	mV	
Maximum output voltage	Vom	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)	Gvc3	10.5	12.0	13.5	dB	
<Regulator>						
Threshold voltage of REG-P pin	VREGPTH	1.14	1.20	1.26	V	
Output sink current of REG-B pin	ISIN	10	—	—	mA	

Appendix

Notes

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