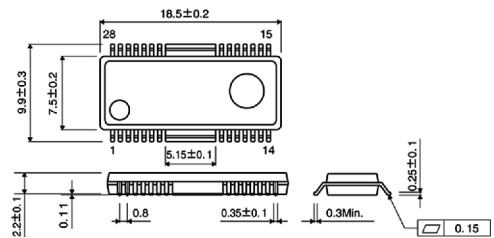


5 channel BTL Driver for CD **BA5814FM**

●Description

The BA5814FM is 5ch BTL driver for CD applications. Separating Vcc into PREVCC and POWTr (Power divides into CH1/2 and CH4/5) can make for better power efficiency.

●Dimension (Units : mm)



●Features

- 1) Small surface mounting power package HSOP-M28
- 2) Internal thermal shut down circuit
- 3) Wide dynamic range
- 4) Built-in variable 2 channel regulator
(External PNPTri is necessary.)

HSOP-M28

●Applications

CD

●Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits		Unit
Power supply voltage	V _{CC}	13.5		V
Power dissipation	P _D	2.2		W
Operating temperature range	T _{OPR}	-40 ~ +85		°C
Storage temperature range	T _{STG}	-55 ~ +150		°C

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

On less than 3%(percentage occupied by copper foil), 170mm 70mm, t=1.6mm

●Recommended Operating Conditions (Ta=25°C)

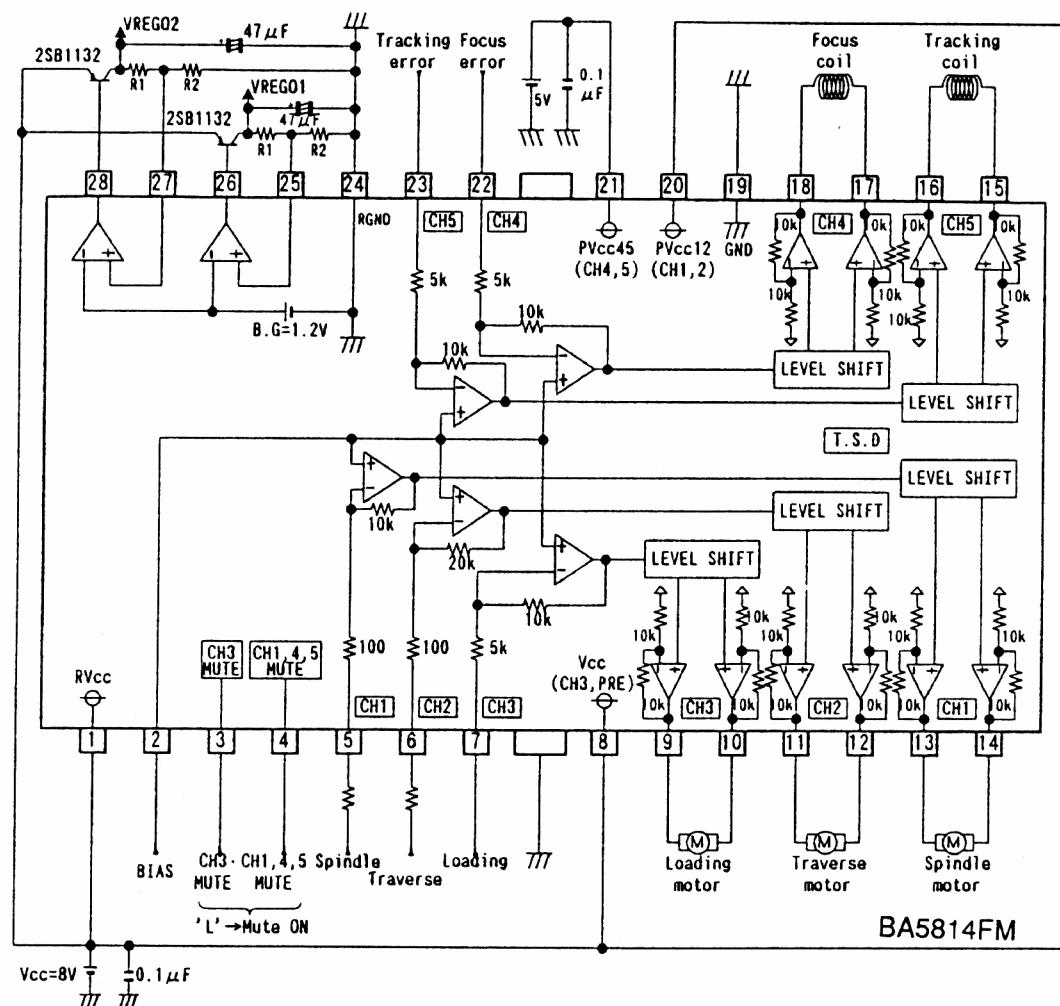
Parameter	Symbol	Min.	Typ.	Max.	Unit
Operating supply voltage	V _{CC}	4.3	—	13.2	V

● Electrical Characteristics (Unless otherwise noted, $T_a=25^\circ\text{C}$, $V_{CC}=8\text{V}$, $P_{VCC45}=5\text{V}$, $B_{IAS}=2.5\text{V}$, $R_L=8\text{ }\Omega$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Quiescent current	I_{CC}	—	20	30	mA	No load
<BTI Driver>						
Output offset voltage	V_{CC}	-50	0	50	mV	
High level output voltage 1	$V_{OM\ 1}$	5.4	6.0	—	V	CH1, 2, 3
High level output voltage 2	$V_{OM\ 2}$	3.6	4.0	—	V	CH4, 5
Closed loop voltage gain 1	G_{VC1}	9.5	12.0	14.5	dB	CH1 $R_{IN}=10\text{k}$
Closed loop voltage gain 2	G_{VC2}	15.5	18.0	20.5	dB	CH2 $R_{IN}=10\text{k}$
Closed loop voltage gain 3	G_{VC3}	16.5	18.0	19.5	dB	CH3, 4, 5
<Regulator>						
Threshold voltage of RE_I pin	V_{REITH}	1.14	1.2	1.26	V	
Output sink current of RE_O pin	I_{SIN}	10	50	—	mA	
Input bias current of RE_I pin	I_{BOP}	—	20	300	nA	

※ This product is not designed for protection against radioactive rays.

● Application circuit



Appendix

Notes

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