SPECIFICATIONS

<u>STK442-090</u>

No.

2000.04.18

TENTATIVE

- 1. Case Outline 14Pins (See attached outline drawing)
- 2. Function class AB 2 channels AF power amplifier

3. Application 50W audio use

4. Maximum Ratings / Ta=25deg

ltem	Symbol	Conditions	Ratings	Unit
Power Supply Voltage 1	Vcc max(1)	No signal	+-54	V
Power Supply Voltage 2	Vcc max(2)	Signal,R∟=8ohm,6ohm	+-47	V
Thermal Resistance	Theta j-c	Per one power TR	2.2	deg/W
Junction Temperature	Tj max		150	deg
Operating Substrate Temperature	Tc max		125	deg
Storage Temperature	Tstg		-30 to +125	deg
Available Time for Load Short-circuit *4	ts	Vcc=+-35V,RL=6ohm,f=50Hz Po=50W,1ch drive	0.3	S

5. Operating Characteristics

Tc=25deg,RL=6ohm(Non-inductive Load),Rg=600ohm,VG=30dB

	Symbol	Conditions *2				Ratings					
ltem		V (V)	f (Hz)	Po (W)	THD (%)		MIN.	TYP.	MAX.	Unit	
Output Power	*1	Po1	+-35	20 to 20k		0.4		50			W
		Po2	+35	1k		10			80		
THD	*1	THD	+-35	20 to 20k	50				0.2		%
Frequency Characteristics	*1	f∟,fH	+-35		1.0		+0 -3 dB	20 to 50k		Hz	
Input Impedance		ri	+-35	1k	1.0				55		kohm
Output Noise Voltage	*3	VNO	+-42				Rg=2.2 kohm			1.0	mVrms
Quiescent Current			+-42							80	mA
Output Neutral Voltage		VN	+-42					-70	0	+70	mV

*Specifications and information herein are subject to change without notice.

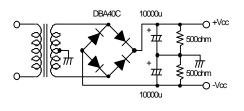
Note *1.1ch Drive

*2.All tests are measured using a constant-voltage supply unless otherwise specified.

*3. The output noise voltage is peak value of an average-reading meter with a rms value scale(VTVM). A regulated AC supply(50Hz) should be used to eliminate the effects of AC primary line flicker noise.

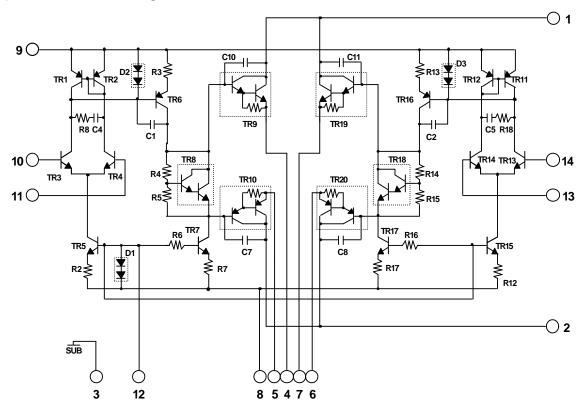
*4. Available time for load short-circuit and output noise voltage are measured using the specified transformer power supply.

Specified Transformer Power Supply

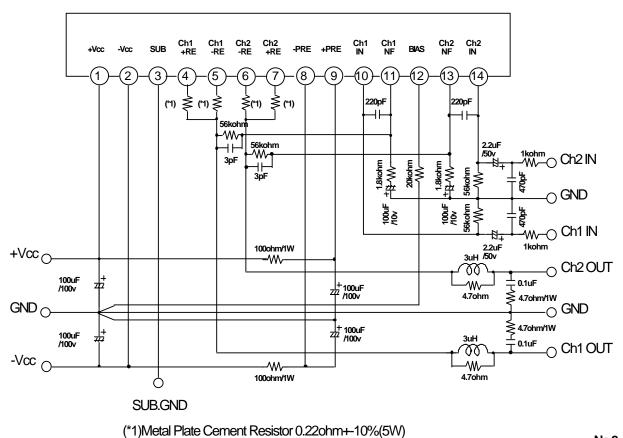


(Equivalent to MG-200)

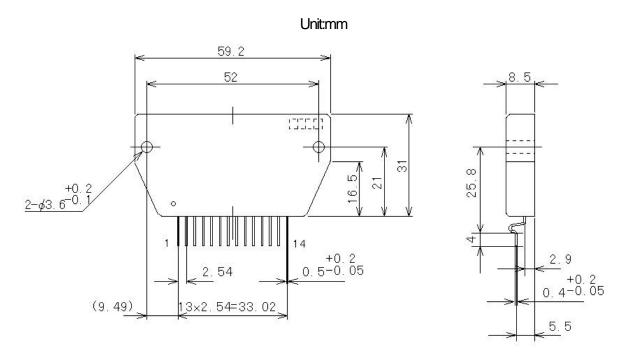
Equivalent Block Diagram



Test Circuit



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