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STK4044II

AF Power Amplifier (Split Power Supply) (100W min, THD = 0.4%)

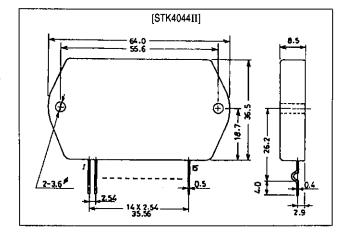
Features

- · Compact package for thin-type audio sets
- Member of pin-compatible series with outputs of 20 to 200W
- Easy heatsink design to disperse heat generated in thintype stereo sets
- Constant-current circuit to reduce supply switch-on and switch-off shock noise
- External supply switch-on and switch-off shock noise muting, load short-circuit protection, thermal shutdown and other circuits can be tailored-designed.

Package Dimensions

unit: mm

4075



Specifications

Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		±73	V
Thermal resistance	θј∙с		1,1	°C/W
Junction temperature	Tj		150	°C
Operating substrate temperature	Tc		125	•℃
Storage temperature	Tstg		-30 to +125	°€
Available time for load short-circuit ¹	ts	$V_{CC} = \pm 51V, R_L = 8\Omega,$ $1 \approx 50Hz, P_O = 100W$	1	s

Recommended Operating Conditions at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{cc}		±51	٧
Load resistance	RL		В	Ω

Operating Characteristics at Ta = 25°C, V_{CC} = $\pm 51V$, R_L = 8Ω (noninductive load), $Rg = 600\Omega$, VG = 40dB

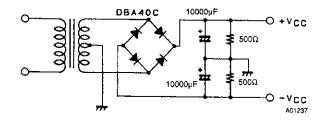
Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	Icco	V _{CC} = ±61V	15	-	120	mА
Output power	Po	THD = 0.4%, t = 20Hz to 20kHz	100	-	_	w
Total harmonic distortion	THD	P _O = 1.0W, f = 1kHz	_	-	0.3	%
Frequency response	f _L , f _H	$P_0 = 1.0W$, $^{+0}_{-3}$ dB	_	20 to 50k	_	Hz
Input impedance	r _i	P _O = 1.0W, f = 1kHz	-	55		kΩ
Output noise voltage ²	V _{NO}	$V_{CC} = \pm 61V$, $Rg = 10k\Omega$	-	- 1	1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±61V	-70	0	+70	mV

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

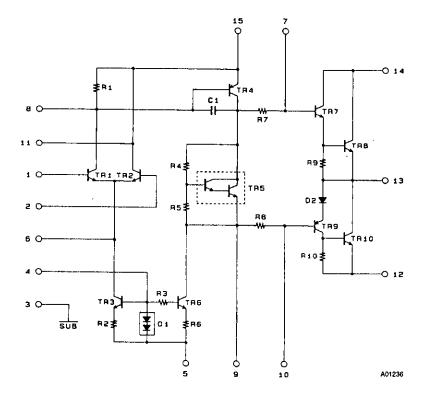
1. Output noise voltage is measured using the transformer supply specified below.

- 2. The output noise voltage is the peak value of an average-reading meter with an rms value scale. The noise voltage waveform does not include any pulse noise.

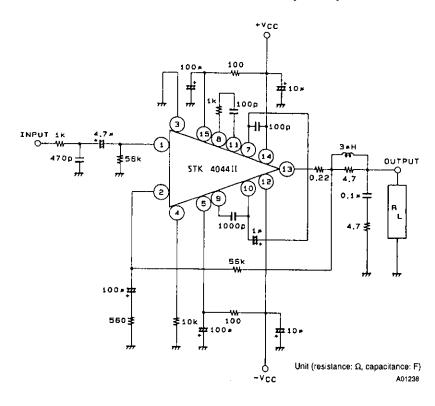
Specified Transformer Supply (MG-200 or Equivalent)



Equivalent Circuit



Sample Application Circuit (100W min AF Power Amplifier)



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