

SANYO**STK4048II**

AF Power Amplifier (Split Power Supply) (150W min, THD = 0.4%)

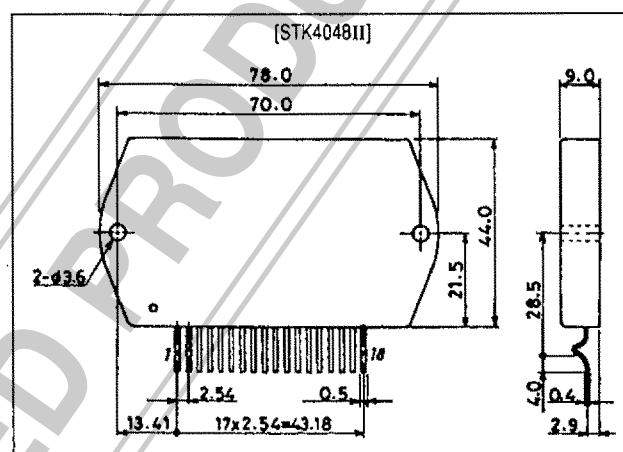
Features

- 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 thin-type 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

4051A



Specifications

Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		±87	V
Thermal resistance	θ _{J-C}		1.2	°C/W
Junction temperature	T _J		150	°C
Operating substrate temperature	T _C		125	°C
Storage temperature	T _{stg}		-30 to +125	°C

Recommended Operating Conditions at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±59	V
Load resistance	R _L		8	Ω

Operating Characteristics at $T_a = 25^\circ\text{C}$, $V_{CC} = \pm 59\text{V}$, $R_L = 8\Omega$ (noninductive load), $R_g = 600\Omega$, $V_G = 40\text{dB}$

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	I_{CCO}	$V_{CC} = \pm 72\text{V}$	15	—	120	mA
Output power	P_O	THD = 0.4%, $f = 20\text{Hz}$ to 20kHz	150	—	—	W
Total harmonic distortion	THD	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	—	—	0.3	%
Frequency response	f_L, f_H	$P_O = 1.0\text{W}$, -3dB	—	20 to 50k	—	Hz
Input impedance	r_i	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	—	55	—	$k\Omega$
Output noise voltage	V_{NO}	$V_{CC} = \pm 72\text{V}$, $R_g = 10k\Omega$	—	—	1.2	mVrms
Neutral voltage	V_N	$V_{CC} = \pm 72\text{V}$	-70	0	+70	mV

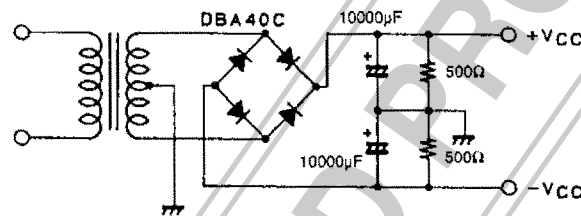
Notes.

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

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

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-250 or Equivalent)



Equivalent Circuit

