

STK4048V**SANYO**

AF Power Amplifier (Split Power Supply) (150W min, THD = 0.08%)

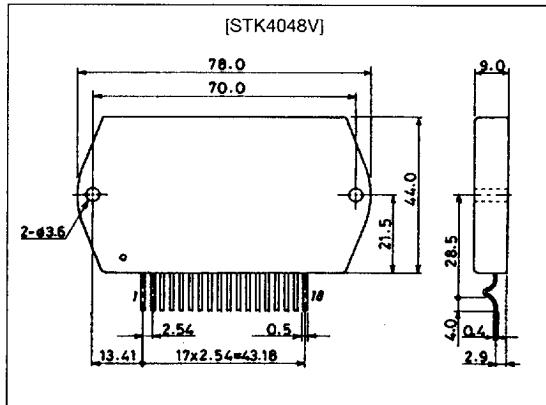
Features

- Compact packaging supports slimmer set designs
- Series designed from 20 up to 100 W (200 W) and pin-compatibility (120 to 200 W have 18 pins)
- Simpler heat sink design facilitates thermal design of slim stereo sets
- Current mirror circuit application reduce distortion to 0.08 %
- Supports addition of electronic circuits for thermal shutdown and load-short protection circuit as well as pop noise muting which occurs when the power supply switch is turned on and off.

Package Dimensions

unit: mm

4051A



Specifications

Maximum Ratings at Ta = 25°C

Parameter	Symbol	Condition	Rating	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 Operational Conditions at Ta = 25°C

Parameter	Symbol	Condition	Rating	Unit
Recommended supply voltage	V _{CC}		± 60	V
Load resistance	R _L		8	Ω

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61096HA (OT)/O2093Y0 (OT) No. 4593-1/3

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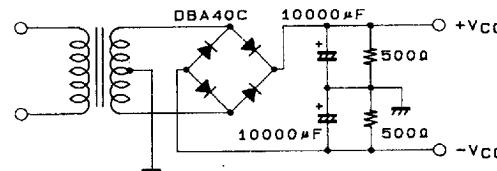
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Operating Characteristicsat $T_a = 25^\circ\text{C}$, $V_{CC} = \pm 60\text{ V}$, $R_L = 8\Omega$, $VG = 40\text{ dB}$, $R_g = 600\Omega$, 100 k LPF ON, R_L (non-inductive load)

Parameter	Symbol	Condition	Rating			Unit
			min	typ	max	
Quiescent current	I_{CC0}	$V_{CC} = \pm 72\text{ V}$	15		120	mA
Output power	P_O	$\text{THD} = 0.08\%$, $f = 20\text{ Hz}$ to 20 kHz	150			W
Total harmonic distortion	THD	$P_O = 1.0\text{ W}$, $f = 1\text{ kHz}$			0.08	%
Frequency response	f_L, f_H	$P_O = 1.0\text{ W}$, $+\frac{0}{-3}\text{ dB}$		20 to 50k		Hz
Input resistance	r_i	$P_O = 1.0\text{ W}$, $f = 1\text{ kHz}$		55		$\text{k}\Omega$
Output noise voltage	V_{NO}	$V_{CC} = \pm 72\text{ V}$, $R_g = 10\text{ k}\Omega$			1.2	mVRms
Neutral voltage	V_N	$V_{CC} = \pm 72\text{ V}$	-70	0	+70	mV

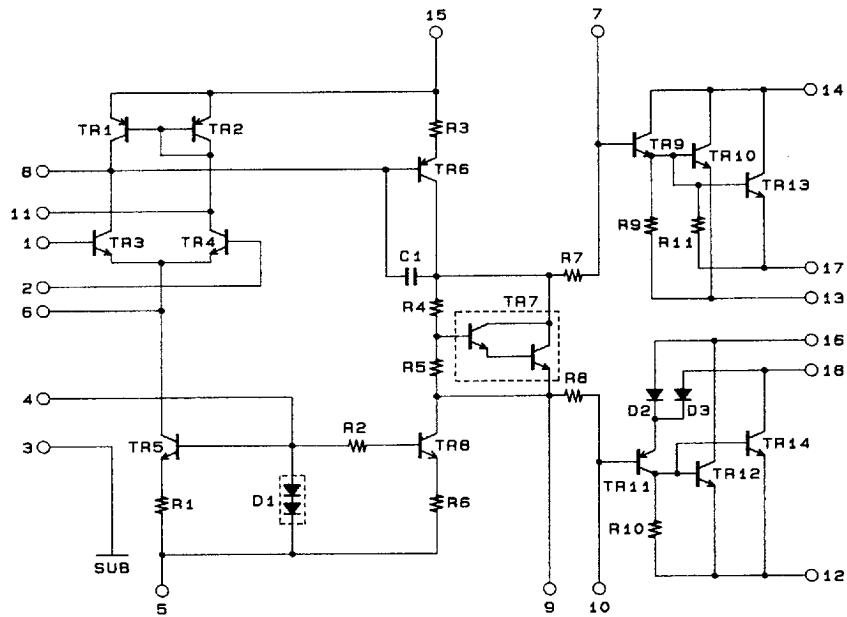
Note: Use a constant-voltage power supply as the test power supply unless otherwise specified

* The output noise voltage is the peak value measured with an averaging rms scale volt meter. The noise voltage waveform should not include pulse noise.



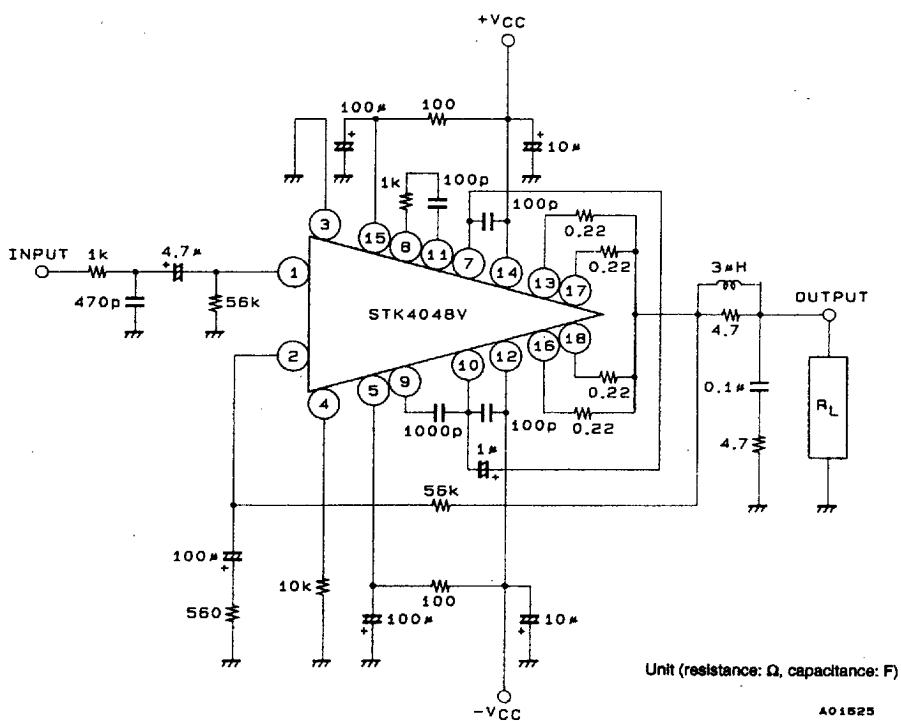
A01237

**Specified Transformer Power Supply
(MG-250 Equivalent)**

Equivalent Circuit

A01538

Application Circuit: 150W min Single Channel AF Power Amplifier



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