SANYO

No. 4594A

STK4046V

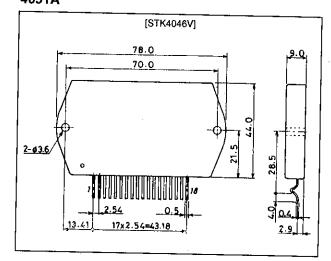
AF Power Amplifier (Split Power Supply) (120 W min, THD = 0.08%)

Features

- Compact packaging supports slimmer set designs.
- Series designed from 20 up to 100 W (200 W) and pincompatibility (120 to 200 W have 18 pins.)
- Simpler heat sink design facilitates thermal design of slim stereo sets.
- Current mirror circuit application reduces 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 $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	 	-,
Maximum supply voltage	- - - - - - - - - - - - - -	Conditions	Ratings	Unit
Thermal resistance	V _{CC} max		±80	ν
	θj-c		1.3	°C/W
Junction temperature	Tj		150	- 00
Operating substrate temperature	Tc			
Storage temperature	Tstg		125	°C
	/ sig		30 to +125	°C

Recommended Operating Conditions at $Ta = 25^{\circ}C$

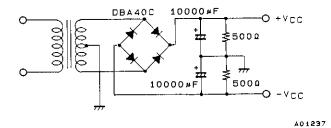
Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage Load resistance	V _{CC}		±55	V
LORD 165ISTATICE	R _L		8	Ω

Operating Characteristics

at Ta = 25°C, V_{CC} = ± 55 V, R_L = 8 Ω (noninductive load), VG = 40 dB, Rg = 600 Ω , 100 k LPF ON

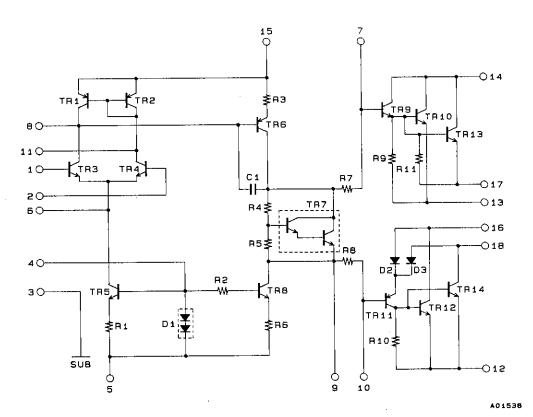
Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	Icco	V _{CC} = ±66 V	15		120	mA
Output power	Po	THD = 0.08%, f = 20 Hz to 20 kHz	120			W
Total harmonic distortion	THD	P _O = 1.0 W, f = 1 kHz			0.08	%
Frequency response	IL, IH	$P_{O} = 1.0 \text{ W}, \frac{+0}{-3} \text{ dB}$		20 to 50 k		Hz
Input resistance	r _i	P _O = 1.0 W, f = 1 kHz		55		kΩ
Output noise voltage	V _{NO*}	$V_{CC} = \pm 66 \text{ V}, \text{ Rg} = 10 \text{ k}\Omega$			1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±66 V	-70	0	+70	mV

Note: Use rated power supply for test unless otherwise specified.



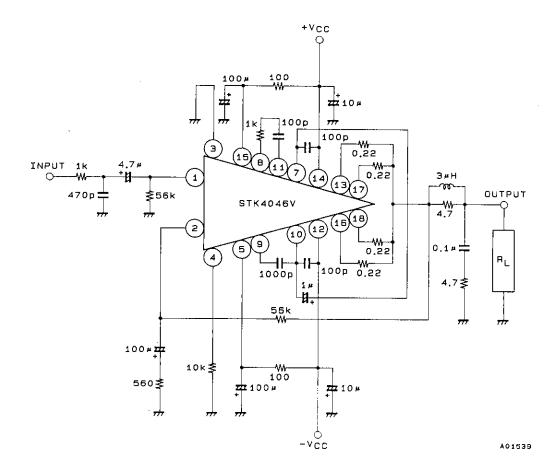
Specified Transformer Power Supply (MG-250 equivalent)

Equivalent Circuit



^{*} Output noise voltage represents the peak value on the rms scale (VTVM). The noise voltage waveform does not include the pulse noise.

Application Circuit: Single-Channel 120 W min. AF Power Amplifier



Unit (resistance: Ω , capacitance: F)

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