

STK4241V**SANYO**

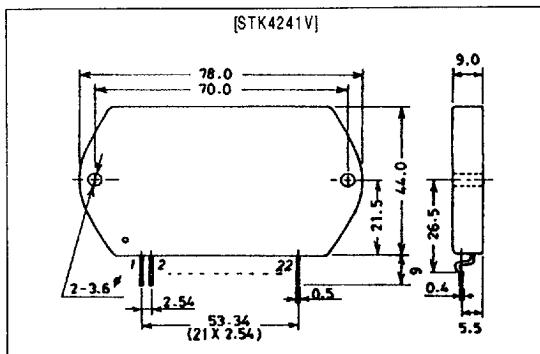
AF Power Amplifier (Split Power Supply) (120W + 120W min, THD = 0.08%)

Features

- Muting circuit built-in to isolate all types of shock noise
- Current mirror circuit for low 0.08% total harmonic distortion
- Pin compatible with the STK4201II series (THD = 0.4%) and the STK4141X series (THD = 0.02%)

Package Dimensions

unit: mm

4086A**Specifications****Maximum Ratings** at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		±78	V
Thermal resistance	θ _{j-c}		1.1	°C/W
Junction temperature	T _j		150	°C
Operating substrate temperature	T _c		125	°C
Storage temperature	T _{stg}		-30 to +125	°C
Available time for load short-circuit ¹	t _s	V _{CC} = ±54V, R _L = 8Ω, f = 50Hz, P _O = 120W	1	s

Recommended Operating Conditions at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±54	V
Load resistance	R _L		8	Ω

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11497HA (ID) / 70695HA (ID) / D2593YK 5-2616 No. 4587-1/4

Operating Characteristics at $T_a = 25^\circ\text{C}$, $V_{CC} = \pm 54\text{V}$, $R_L = 8\Omega$ (noninductive load), $R_g = 600\Omega$, $VG = 40\text{dB}$

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	I_{CC0}	$V_{CC} = \pm 66\text{V}$	20	40	100	mA
Output power	P_O	THD = 0.08%, $f = 20\text{Hz}$ to 20kHz	120	-	-	W
Total harmonic distortion	THD	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	-	-	0.08	%
Frequency response	f_L, f_H	$P_O = 1.0\text{W}$, $+0_{-3}\text{dB}$	-	20 to 50k	-	Hz
Input impedance	r_i	$P_O = 1.0\text{W}$, $f = 1\text{kHz}$	-	55	-	$\text{k}\Omega$
Output noise voltage ²	V_{NO}	$V_{CC} = \pm 66\text{V}$, $R_g = 10\text{k}\Omega$	-	-	1.2	mV_{rms}
Neutral voltage	V_N	$V_{CC} = \pm 66\text{V}$	-70	0	+70	mV
Muting voltage	V_M		-2	-5	-10	V

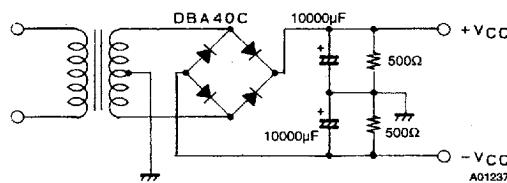
Notes.

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

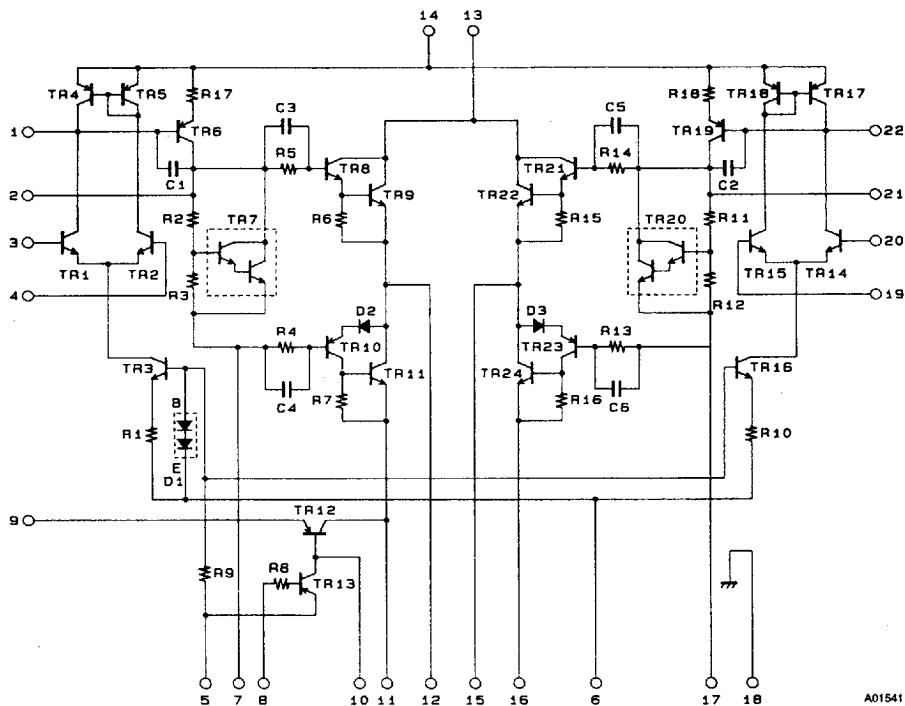
1. Available time for load short-circuit and output noise voltage are measured using the transformer supply specified below.

2. The output noise voltage is the peak value of an average-reading meter with an rms value scale (VTVM). The noise voltage waveform includes no flicker noise.

Specified Transformer Supply (MG-250 or Equivalent)



■ 7997076 0020890 216 ■

Equivalent Circuit**Sample Application Circuit (120W min 2-Channel AF Power Amplifier)**