

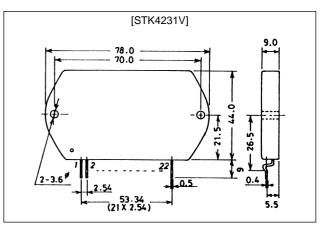
Features

- 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 $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		±75	V
Thermal resistance	Өј-с		1.2	°C/W
Junction temperature	Tj		150	°C
Operating substrate temperature	Tc		125	°C
Storage temperature	Tstg		-30 to +125	°C
Available time for load short-circuit ¹	t _s	$V_{CC} = \pm 51V, R_L = 8\Omega,$ f = 50Hz, P _O = 100W	1	S

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

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±51	V
Load resistance	RL		8	Ω

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Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	Icco	V _{CC} = ±61.5V	20	40	100	mA
Output power	Po	THD = 0.08%, f = 20Hz to 20kHz	100	-	-	W
Total harmonic distortion	THD	P _O = 1.0W, f = 1kHz	-	-	0.08	%
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}	$V_{CC} = \pm 61.5 V$, Rg = 10k Ω	-	-	1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±61.5V	-70	0	+70	mV
Muting voltage	V _M		-2	-5	-10	V

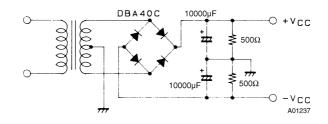
Operating Characteristics at Ta = 25°C, $V_{CC} = \pm 51V$, $R_L = 8\Omega$ (noninductive load), $Rg = 600\Omega$, VG = 40dB

Notes.

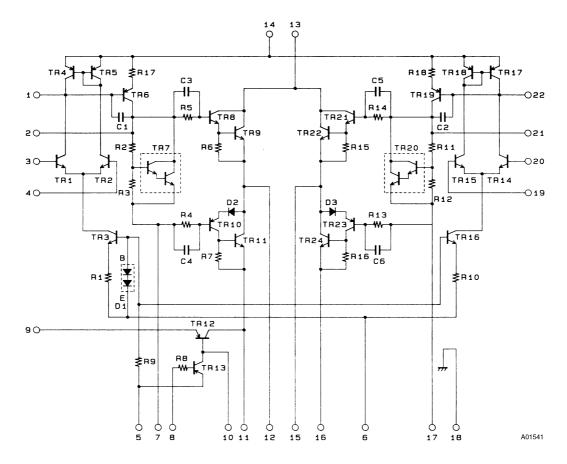
All tests are measured using a regulated voltage supply unless otherwise specified.

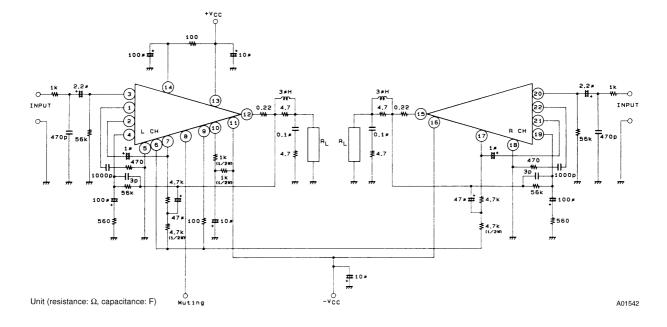
Available time for load short-circuit and output noise voltage are measured using the transformer supply specified below.
The output noise voltage is the peak value of an average-reading meter with an rms value scale (VTVM). The noise voltage waveform includes no flicker noise.

Specified Transformer Supply (MG-200 or Equivalent)



Equivalent Circuit





Sample Application Circuit (100W min 2-Channel AF Power Amplifier)

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