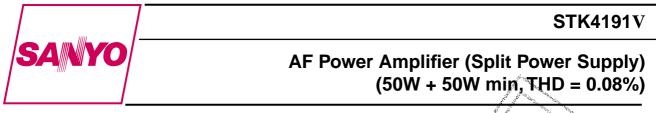
Thick Film Hybrid IC



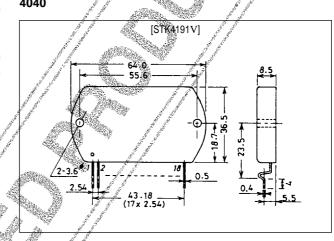
Features

- Built-in muting circuit to cut off various kinds of pop noise.
- Greatly reduced heat sink due to substrate temperature 125°C guaranteed.
- Distortion 0.08% due to current mirror circuit.
- Pin-compatible with the STK4101II series. The STK4101V series use the same package and are available for output 6W to 50W.
- Excellent cost performance.

Package Dimensions

unit: mm

4040



Specifications

Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	and the second second	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	Stall and a start	V _{CC} max		±53	V
Thermal resistance	/	Өј-с	er and a state of the state of	1.8	°C/W
Junction temperature		Tjmax		150	°C
Operating substrate temperature	g ang	Tc		125	°C
Storage temperature		Tstg		-30 to +125	°C
Available time for load short-circuit	1980 - 1986 - 1986	∫ t _{st} ¢	V_{CC} = ±35.5V, R _L = 8 Ω , f = 50Hz, P _O = 50W	2	s

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

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±35.5	V
Load resistance	RL		8	Ω

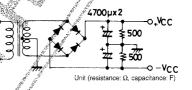
SANYO Electric Co., Ltd. Semiconductor Business Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

Parameter	Symbol	Conditions	min	typ 🖉	max	Unit
Quiescent current	I _{CCO}	$V_{CC} = \pm 42.5 V$	20	40 , 40	100	mA
Output power	P _O (1)	f = 20Hz to 20kHz, THD = 0.08%	50	and a second second		San
	P _O (2)	$V_{CC} = \pm 32 \text{V}, \text{ f} = 1 \text{kHz},$ THD = 0.2%, R _L = 4 Ω	55			W
Total harmonic distortion	THD	f = 1kHz, Po = 1W			0 .08	et al and the second
Frequency response	f _L , f _H	$P_0 = 1W, \frac{+0}{-3} dB$	and the second sec	20 to 50k		Hz
Input impedance	r _i	f = 1kHz, P _O = 1W			and the second se	kΩ
Output noise voltage	V _{NO}	$V_{CC} = \pm 42.5 V$, Rg = 10k Ω			1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±42.5V	-70	0	ر +70 جائز ک	mV
Muting voltage	V _M		-2	-5	-10	V

Operating Characteristics at Ta = 25°C, $V_{CC} = \pm 35.5V$, $R_L = 8\Omega$ (non-inductive), $Rg = 600\Omega$, VG = 40 dB unless otherwise specified, at specified test circuit (based on sample application circuit)

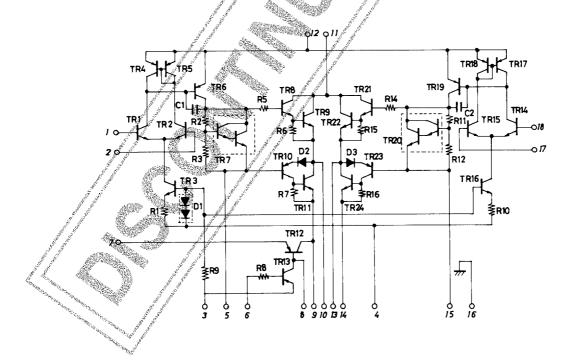
Note : For Power supply at the time of test, use a constant-voltage power supply unless otherwise specified.

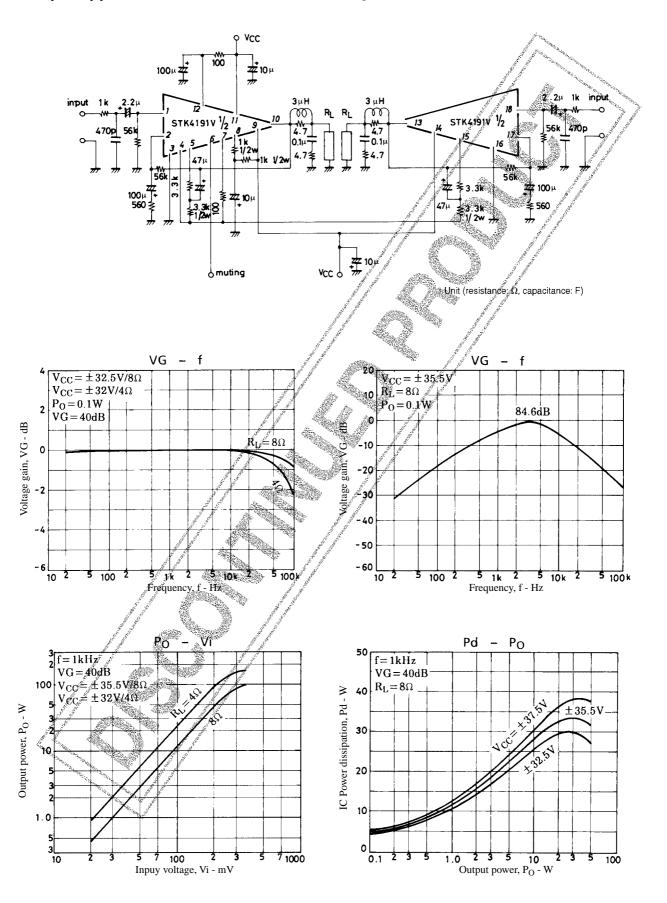
- For measurement of the available time for load short-circuit and output noise voltage, use the specified transformer power supply shown right.
- ** The output noise voltage is represented by the peak value on rms scale, (VTVM) of average value indicating type. For AC power supply, use an AC stabilized power supply (50Hz) to eliminate the effect of flicker noise in AC primary line.



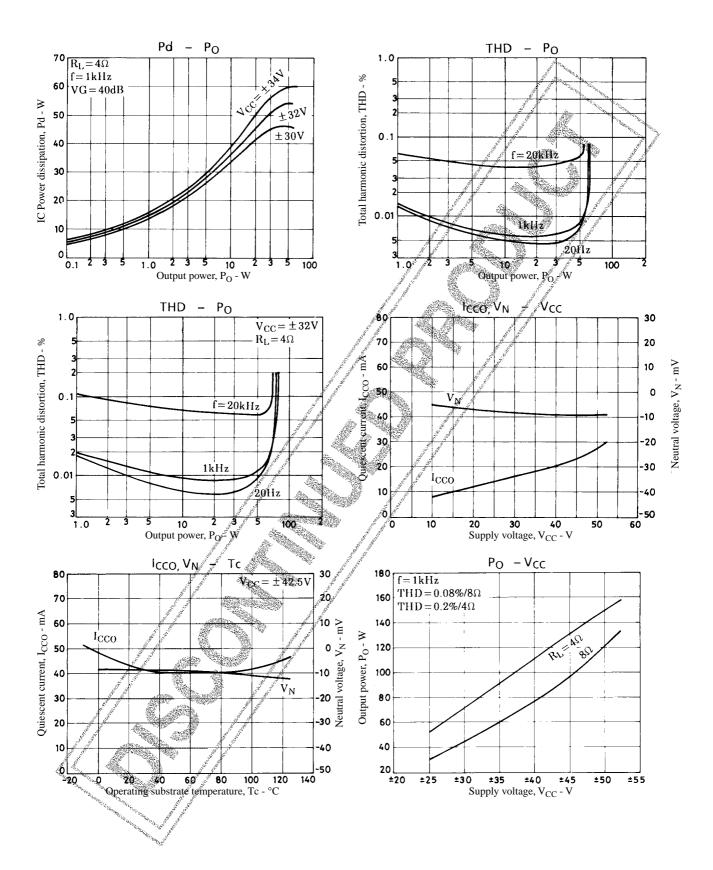
Specified transformer power supply (Equivalent to MG-200)

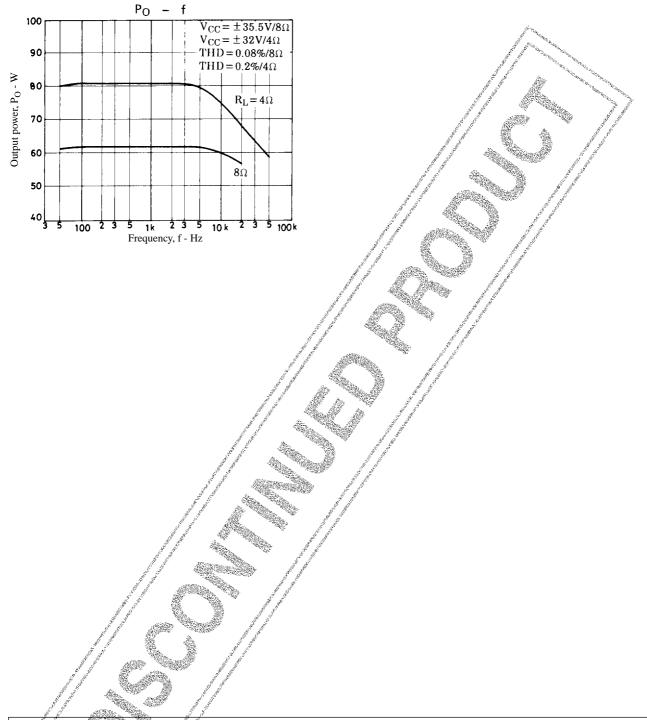
Equivalent Circuit





Sample Application Circuit : 50W min AF Power Amplifier (2 channels)





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