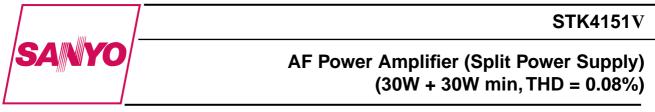
Thick Film Hybrid IC



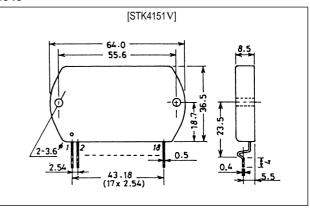
Features

- 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	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max		±42.0	V
Thermal resistance	Өј-с		2.1	°C/W
Junction temperature	Tjmax		150	°C
Operating substrate temperature	Тс		125	°C
Storage temperature	Tstg		-30 to +125	°C
Available time for load short-circuit	t _s	$V_{CC} = \pm 28V$, $R_L = 8\Omega$, f = 50Hz, Po = 30W	2	S

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

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±28.0	V
Load resistance	RL		8	Ω

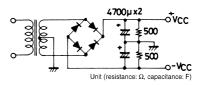
SANYO Electric Co., Ltd. Semiconductor Business Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

Operating Characteristics at Ta = 25°C, $V_{CC} = \pm 28.0$ V, $R_L = 8\Omega$ (non-inductive), $Rg = 600\Omega$, VG = 40dB unless otherwise specified, at specified test circuit (based on sample application circuit)

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	Icco	V _{CC} = ±33.5V	20	40	100	mA
Output power	P _O (1)	f = 20Hz to 20kHz, THD = 0.08%	30			W
	P _O (2)	$\label{eq:V_CC} \begin{array}{l} V_{CC} = \pm 25 \text{V}, \mbox{ f} = 1 \text{kHz}, \\ \mbox{THD} = 0.2\%, \mbox{ R}_{L} = 4 \Omega \end{array}$	35			W
Total harmonic distortion	THD	f = 1kHz, Po = 1W			0.08	%
Frequency response	f _L , f _H	Po = 1W, $^{+0}_{-3}$ dB		20 to 50k		Hz
Input impedance	r _i	f = 1kHz, Po = 1W		55		kΩ
Output noise voltage	V _{NO}	V_{CC} = ±33.5V, Rg = 10k Ω			1.2	mVrms
Neutral voltage	V _N	V _{CC} = ±33.5V	-70	0	+70	mV
Muting voltage	V _M		-2	-5	-10	V

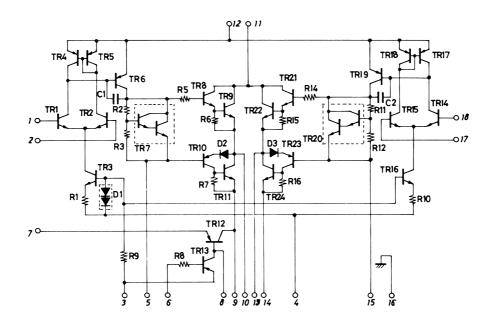
Note : For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.

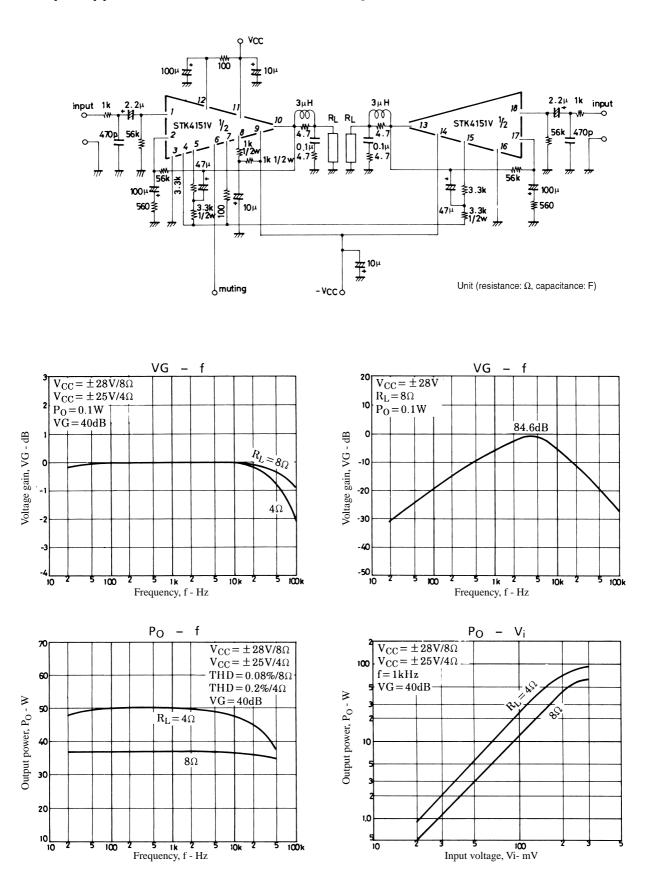
- * For measurement of the available time for load short-circuit and output noise voltage, use the specified transformer power supply shown right.
- ** The output noise voltage is represented by the peak value on rms scale (VTVM) of average value indicating type. For AC power supply, use an AC stabilized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



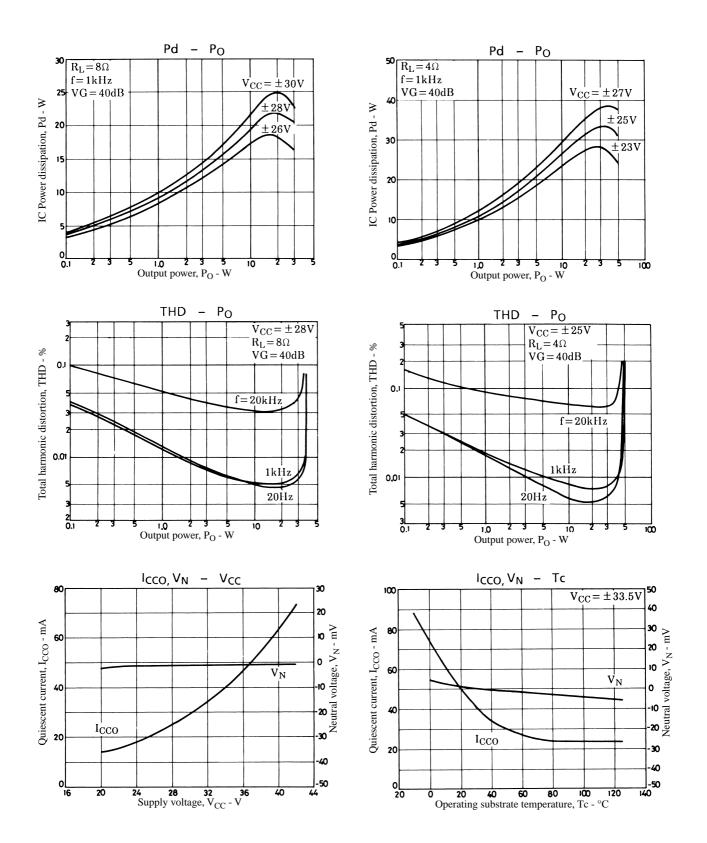
Specified transformer power supply (Equivalent to RP-25)

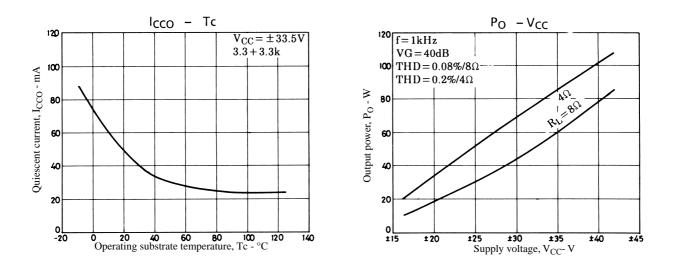
Equivalent Circuit





Sample Application Circuit: 30W min AF Power Amplifier (2 channels)





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