

STK4332

AF Power Amplifier (5W + 5W min, THD = 1.0%)

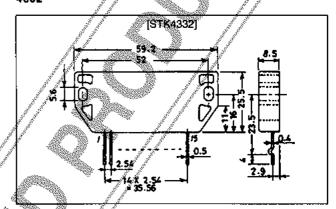
Features

- · Small and slim package with 25.5 mm height.
- Capable of guaranteeing substrate temperature 125°C, thereby reducing heat sink.
- · Excellent cost performance.

Package Dimensions

unit: mm

4032



Specifications

Maximum Ratings at Ta = 25°C

Parameter	Symbol Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} /Rex Pin 4 to 7, 12	32	٧
Thermal resistance	Pi-c One power transistor	7	°C/W
Junction temperature		150	°C
Operating substrate temperature	Jc	125	°C
Storage temperature	TSIG	-30 to +125	°C
Available time for load short-circuit	$V_{CC} = 23V, R_L = 8\Omega, P_O = 5W, f = 50Hz$	2	s

Recommended Operating Conditions at Ta = 25°C

Parameter Sýr	nbol Conditions	Ratinge	Unit
Construction of the Control of the C	cc	23	٧
Load resistance	L	8	Ω

Operating Characteristics at Ta = 25°C, V_{CC} = 23V, R_L = 8 Ω , R_g = 600 Ω , VG = 40 dB, at specified Test Circuit (based on Sample Application Circuit).

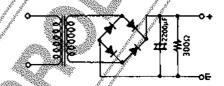
Parameter	Symbol	Conditions	min	typ	/\mex	Unit
Quiescent current	lcco	V _{CC} = 27V	20	60	120	mA
Cutput power	P _O (1)	THD = 1.0%, f = 1kHz	5	and the second		W.
	P _O (2)	THO = 1.0%, f = 60Hz to 10kHz	2.5	and the state of t		W
Total harmonic distortion	THD	P _O = 0.1W, f = 1kHz		// /	0.5	/%
Frequency response	f _L , f _H	$P_0 = 0.1W, ^{+0}_{-3} dB$	and the state of t	50 to 60k		Hz
Input Impedance	4	P _O = 0.1W, f = 1kHz	111	110k	. //	Ω
Output noise vottage	V _{NO}	V _{CC} = 27V, Rg = 10kΩ			0.8/	mVrms

Unless otherwise specified for the power supply at the time of test, use the Notes. constant voltage power supply.

When testing the available time for load short-circuit and output noise voltage,

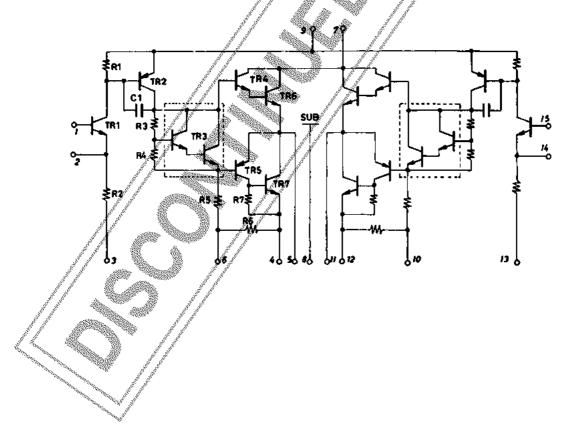
use the specified transformer as shown right.

The output noise voltage is the peak value on the mean value indicating rms, reading (VTVM), and should not involve impulse noise.

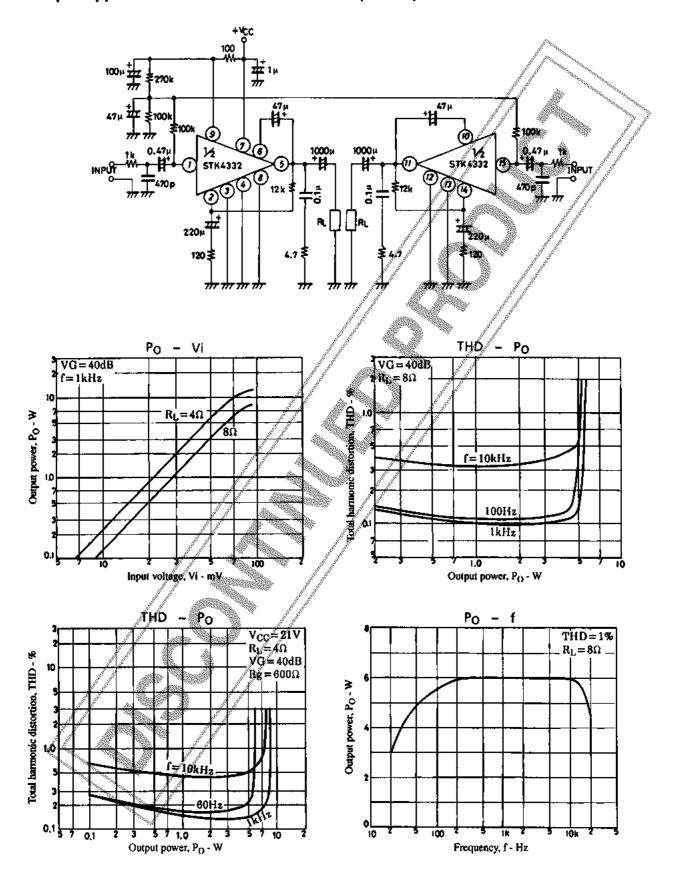


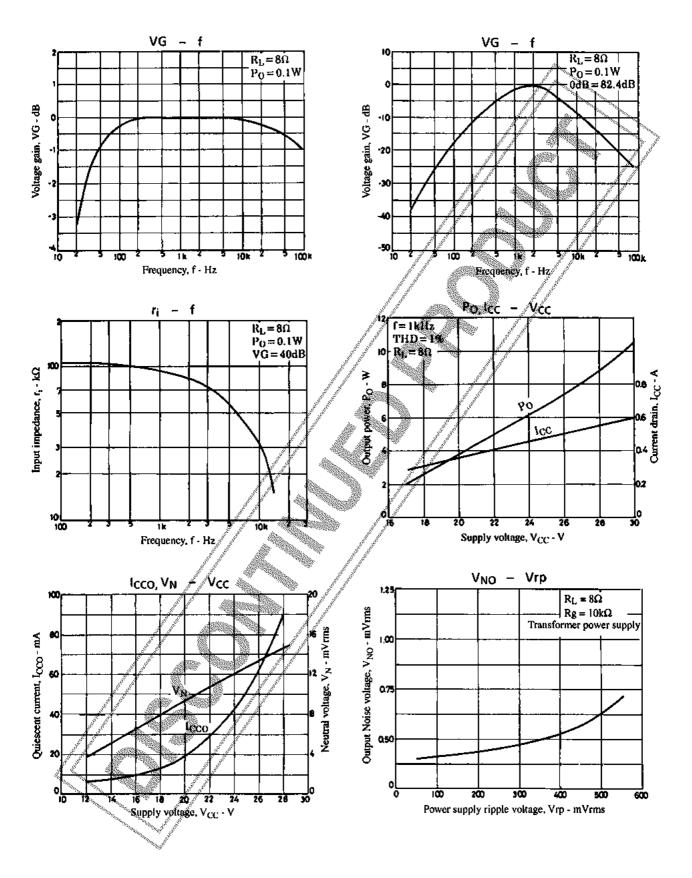
Specified Transformer Power Supply (Equivalent to RP-22)

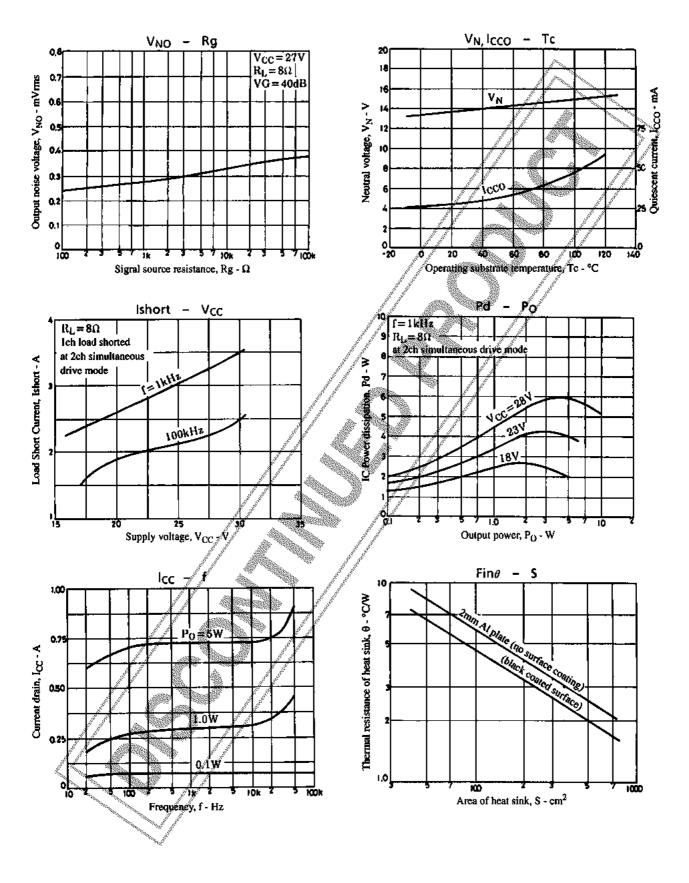
Equivalent Circuit

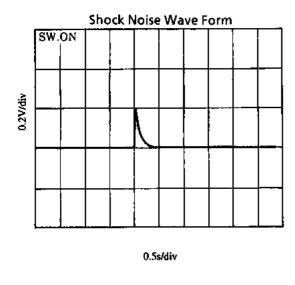


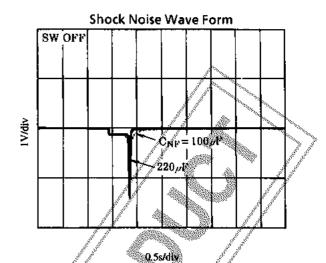
Sample Application Circuit: 5W min 2-channel AF power amplifier











- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear
 power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury,
 death or property tass.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their
 officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated
 with such use:
 - Not impose any responsibility for any fault or negligence which may be cited in any such claim or fitigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees, jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO
 believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any intringements of
 intellectual property rights or other rights of third parties.

This catalog provides information as of June, 1997. Specifications and information herein are subject to change without notice.