



STK4873

Thick Film Hybrid Integrated Circuit
35W MIN 2-CHANNEL AF POWER AMP,
(DUAL SUPPLY)

TENTATIVE

Case Outline : 16 pins (See attached sheet.)

Function : 2-channel AF power amp.

Use : 35W audio use

Features :

1. Contains emitter follower circuit for upgrading.
2. Case temperature 125°C is guaranteed, thereby enabling great reduction of heat sink.
3. By attaching muting circuit externally, pop noise at the time of power ON/OFF can be rejected.

Maximum Ratings at Ta=25°C

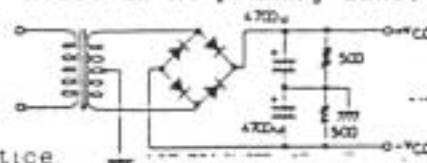
Supply Voltage	V_{CC}	± 13.5	V
Thermal Resistance	θ_{j-c}	1.9	°C/W
Junction Temperature	T_j	150	°C
Operating Temperature	T_c	125	°C
Storage Temperature	T_{stg}	-30 to -125	°C
Available Time for Load Shorted	t	$V_{CC}=\pm 30V, R_L=8\Omega,$ $f=50Hz, P_o=35W$	2 sec

Operating Characteristics at Ta=25°C, $R_L=8\Omega$, VG=40dB, R_L : Non-inductive load, $R_g=600\Omega$ at specified test circuit

			min	typ	max	unit
Output Power	Po(1)	$V_{CC}=\pm 30V, f=20$ to 20kHz, THD=0.02%	35			W
	Po(2)	$V_{CC}=\pm 26V, f=1kHz$, THD=0.08%, $R_L=4\Omega$	40			W
Total Harmonic Distortion	THD	$V_{CC}=\pm 30V, f=20$ to 20kHz, Po=1.0W			0.02	%
Frequency Characteristic	fL, fH	$V_{CC}=\pm 30V, P_o=1.0W$, dB	10	to 100k		Hz
Input Impedance	ri	$V_{CC}=\pm 30V, f=1kHz, P_o=1.0W$	32			kohm
Output Noise Voltage	V_{NO}	$V_{CC}=\pm 33V, R_g=10k\Omega$			1.2mVrms	
Quiescent Current	Icco	$V_{CC}=\pm 33V$	35	70	120	mA
Output Middle Point Voltage	V_N	$V_{CC}=\pm 33V$	-70	0	+70	mV

(Note)

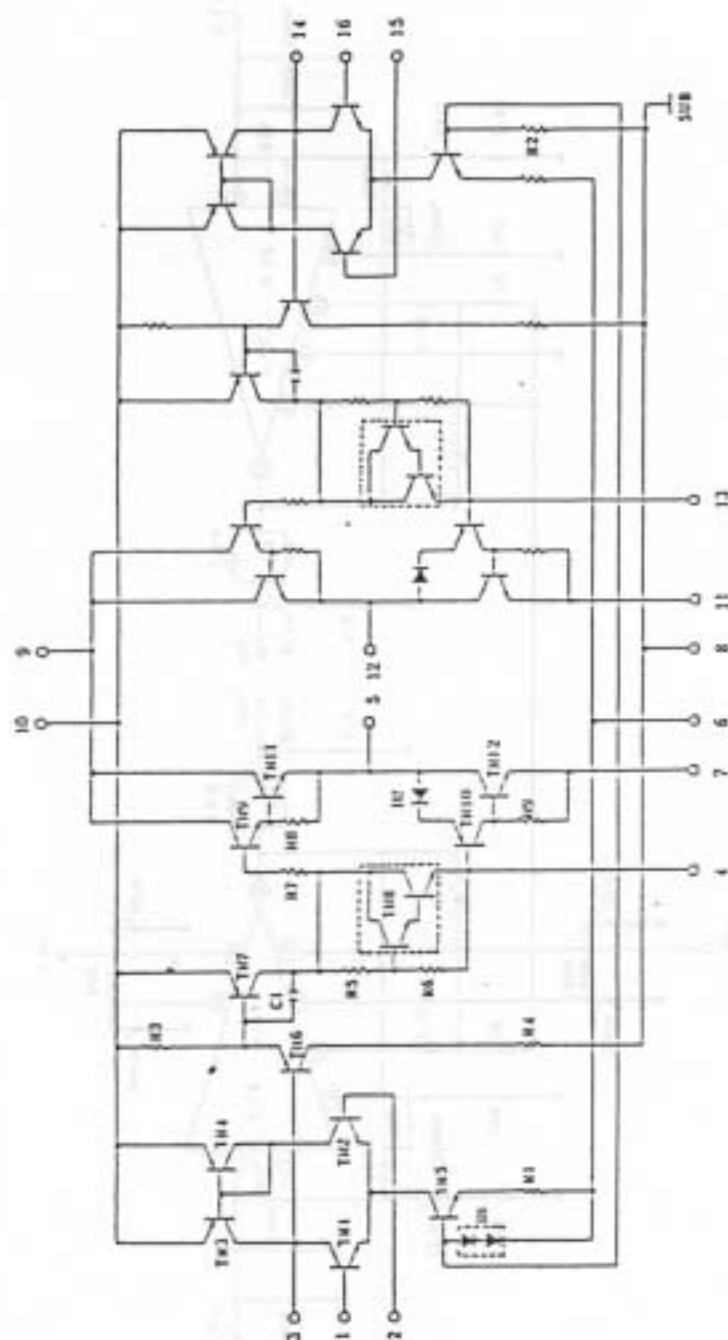
- 1) For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.
- 2) For measurement of the available time for load shorted and output noise voltage, use the specified transformer power supply shown below.
- 3) The output noise voltage is the peak value on rms 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.



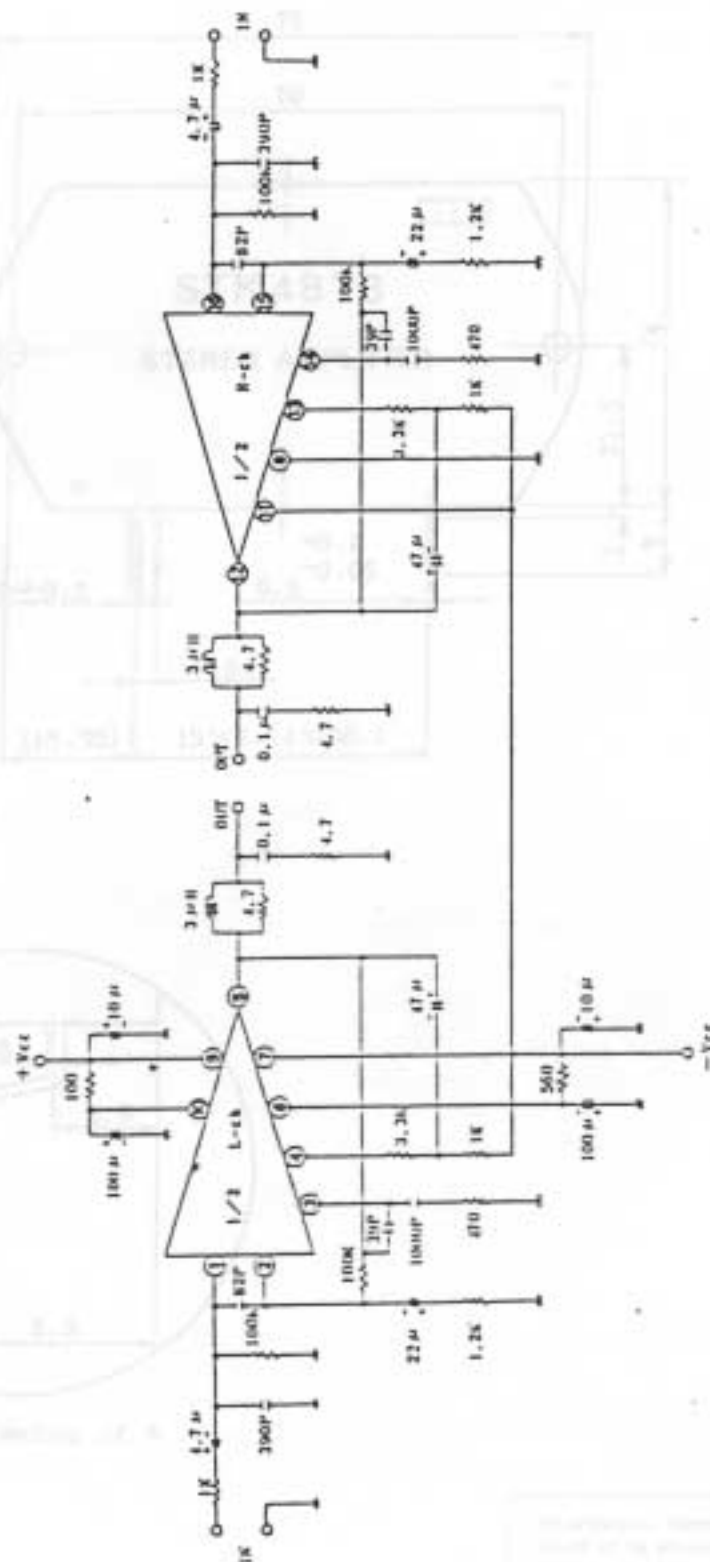
These specifications are subject to change without notice.

TOKYO SANYO ELECTRIC CO., LTD. SEMICONDUCTOR DIVISION
15-13, 6-CHOME, SOTOKANDA, CHIYODA-KU, TOKYO 100 JAPAN

Internal Equivalent Circuit

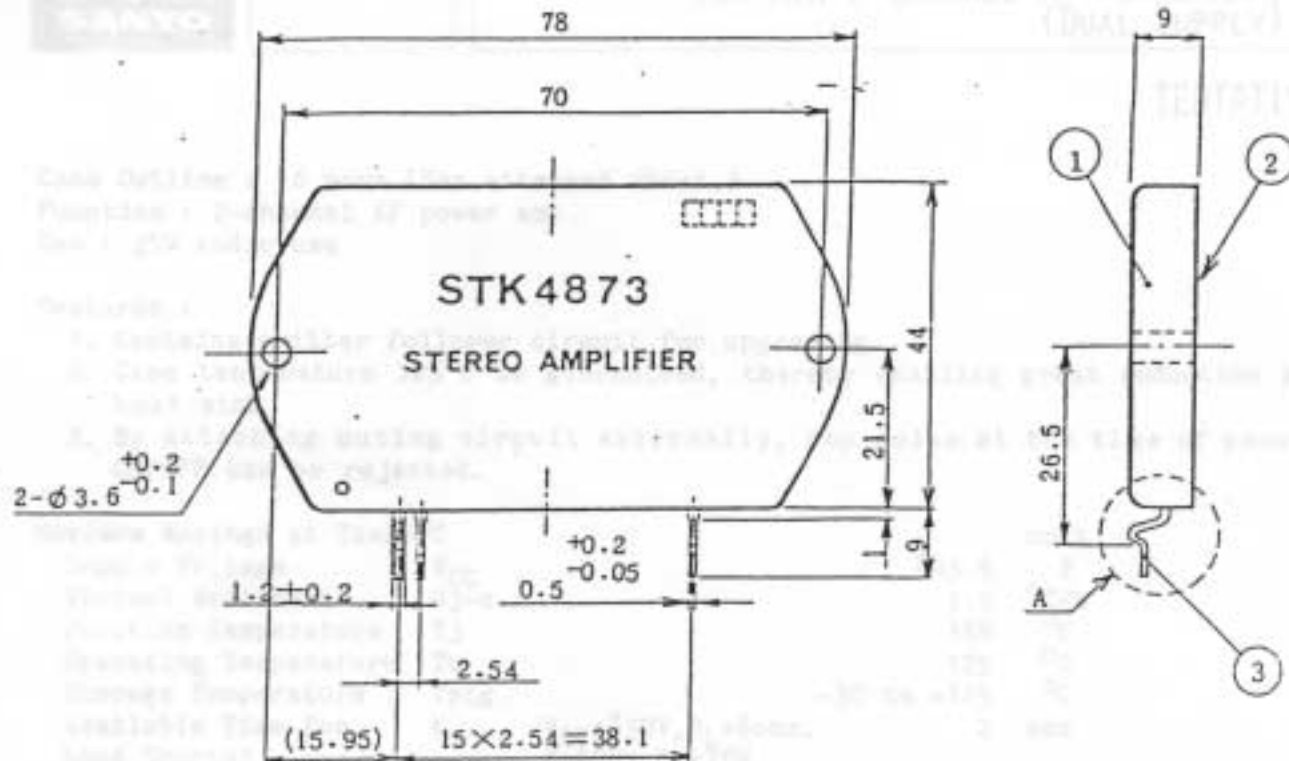


Test Circuit



Case Outline

unit:mm



Detail drawing of A

Information furnished by SANYO is believed to be accurate and reliable. However, no responsibility is assumed by SANYO for its use; nor for any infringements of patents or other rights of third parties which may result from its use, and no license is granted by implication or otherwise under any patent or patent rights of SANYO.