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

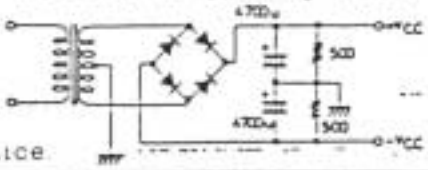
				unit
Supply Voltage	V_{CC}		±43.5	V
Thermal Resistance	θj-c		1.9	°C/W
Junction Temperature	Tj		150	°C
Operating Temperature	Tc		125	°C
Storage Temperature	Tstg		-30 to -125	°C
Available Time for Load Shorted	t	V_{CC}=±30V, R_L=8ohm, f=50Hz, Po=35W	2	sec

Operating Characteristics at Ta=25°C, R_L=8ohm, VG=40dB, R_L:Non-inductive load, Rg=600ohm at specified test circuit

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

(Note)

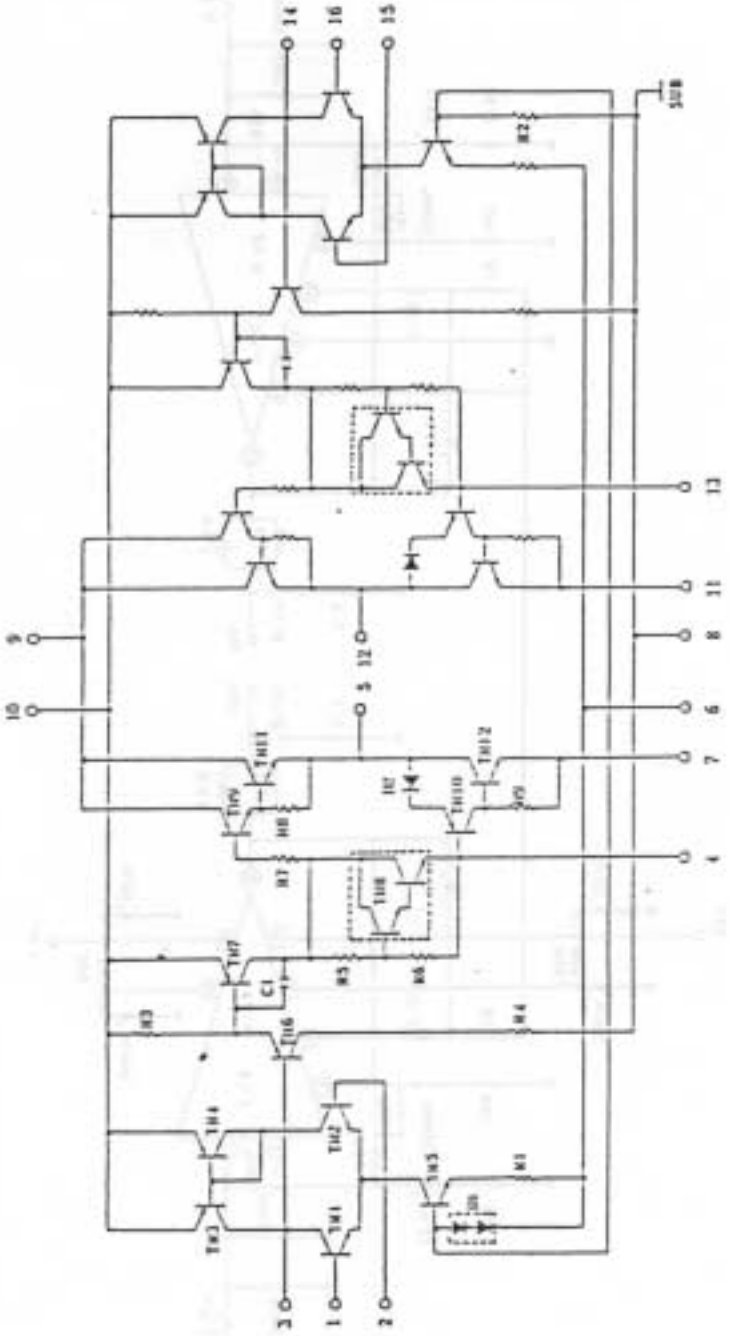
1) For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.
2) For measurement of the available time for load shorted and output noise voltage, use the specified transformer power supply shown below.
3) The output noise voltage is the peak value on rms scale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



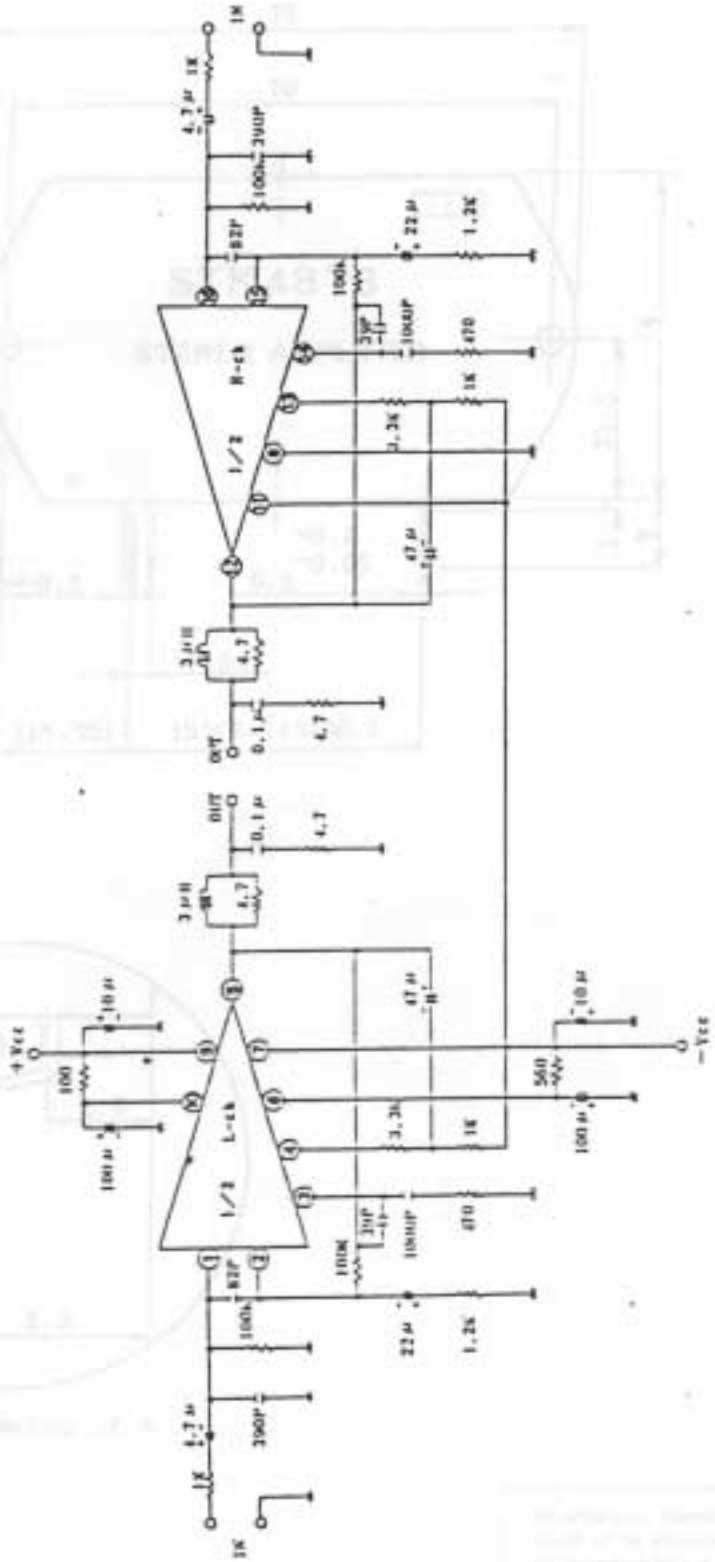
These specifications are subject to change without notice.

TOKYO SANYO ELECTRIC CO., LTD. SEMICONDUCTOR DIVISION
15-13, 6-CHOME, SOTOKANDA, CHIYODA-KU, TOKYO 101 JAPAN

Internal Equivalent Circuit

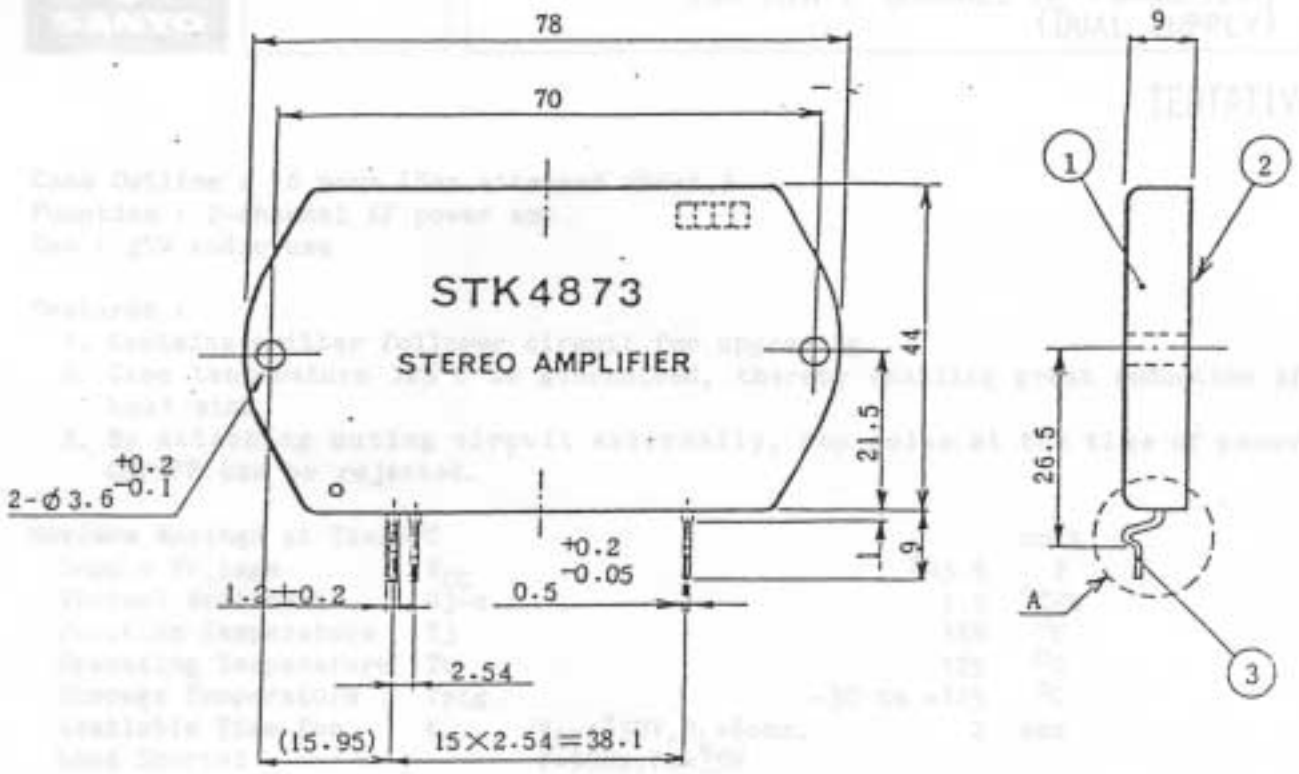


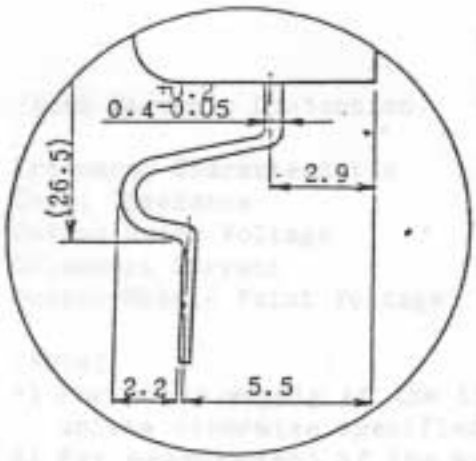
Test Circuit



Case Outline

unit:mm





Detail drawing of A