



No.1625

STK4913



Thick Film Hybrid Integrated Circuit
2-CHANNEL 50W MIN AF POWER AMP
(DUAL-SUPPLY)

Features

- Contains the emitter follower circuit for upgrading.
- Case temperature 125°C is guaranteed, thereby greatly reducing the heat sink.
- Pop noise generated at the time of power ON/OFF can be rejected by a muting circuit connected externally.

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

		unit
Maximum Supply Voltage	$V_{CC\max}$	± 50 V
Thermal Resistance	θ_{j-c}	$1.5^{\circ}\text{C}/\text{W}$
Junction Temperature	T_j	150°C
Operating Case Temperature	T_c	125°C
Storage Temperature	T_{stg}	-30 to $+125^{\circ}\text{C}$
Available Time for Load Shorted	t_s $V_{CC} = \pm 35V, R_L = 8\text{ohm}, P_o = 50\text{W}, f = 50\text{Hz}$	2 sec

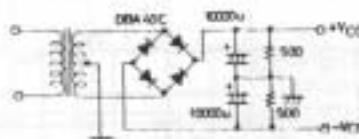
Recommended Operating Conditions at $T_a=25^{\circ}\text{C}$

		unit
Recommended Supply Voltage	V_{CC}	± 35 V
Load Resistance	R_L	8 ohm

			min	typ	max	unit
Quiescent Current	I_{cco} $V_{CC} = \pm 42V$		35	70	120	mA
Output Power	P_o THD = 0.02%, $f = 20\text{Hz}$ to 20kHz		50			W
Total Harmonic Distortion	THD	$P_o = 1\text{W}, f = 20\text{Hz}$ to 20kHz			0.02	%
Frequency Response	f_L, f_H	$P_o = 1\text{W}, -3\text{dB}$	10 to 100k			Hz
Input Resistance	r_i	$P_o = 1\text{W}, f = 1\text{kHz}$		32k		ohm
Output Noise Voltage	V_{NO}	$V_{CC} = \pm 42V, R_g = 10\text{kohm}$			1.2mVrms	
Output Middle-Point Voltage V_N	V_N $V_{CC} = \pm 42V$		-70	0	+70	mV

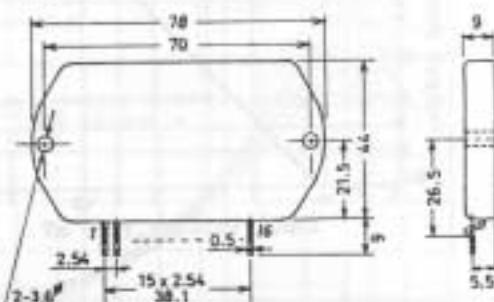
(Note)

- 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 shorted 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.



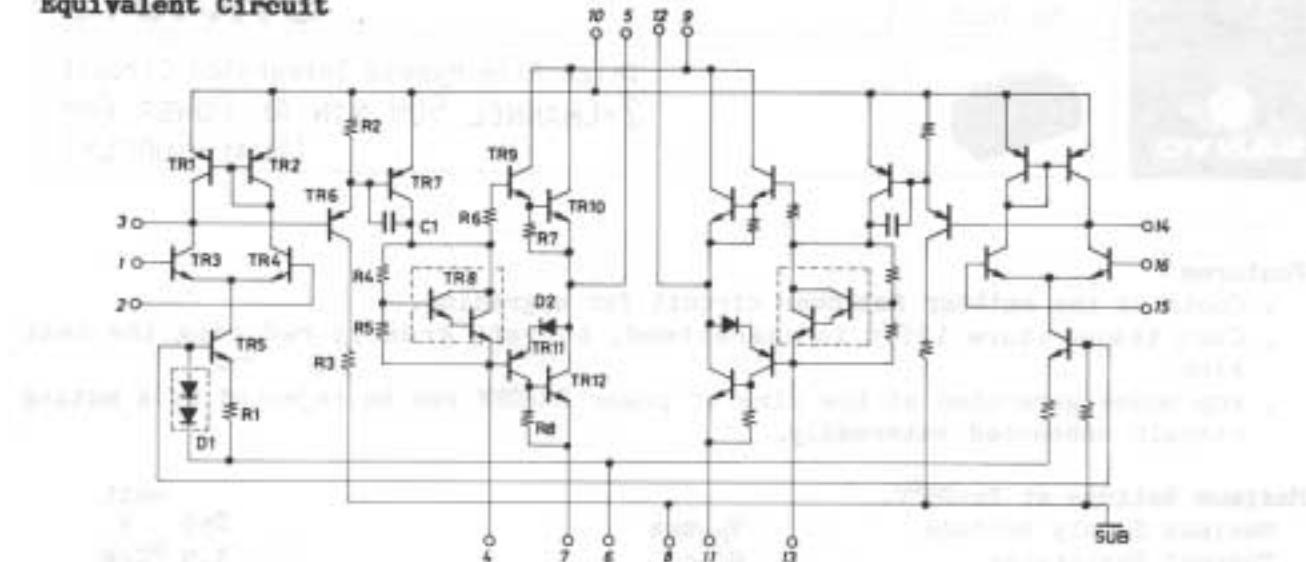
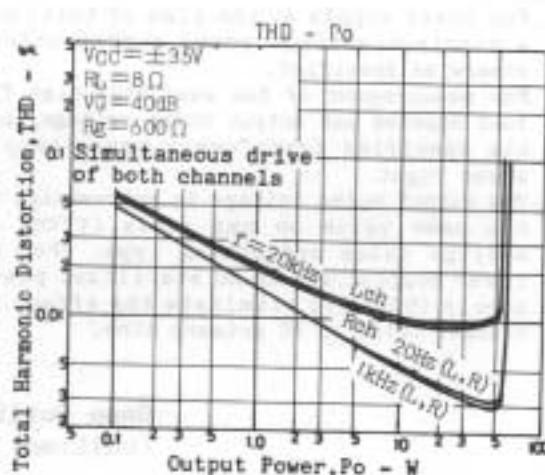
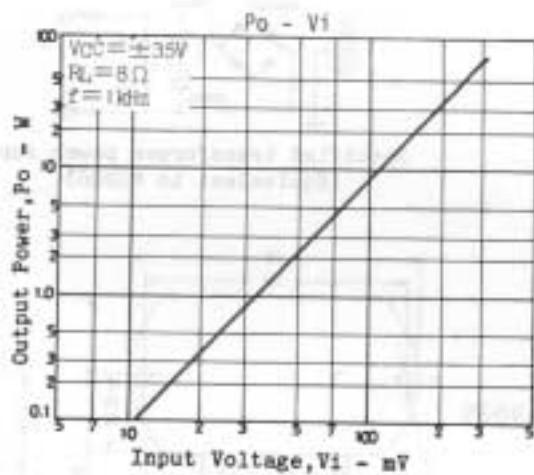
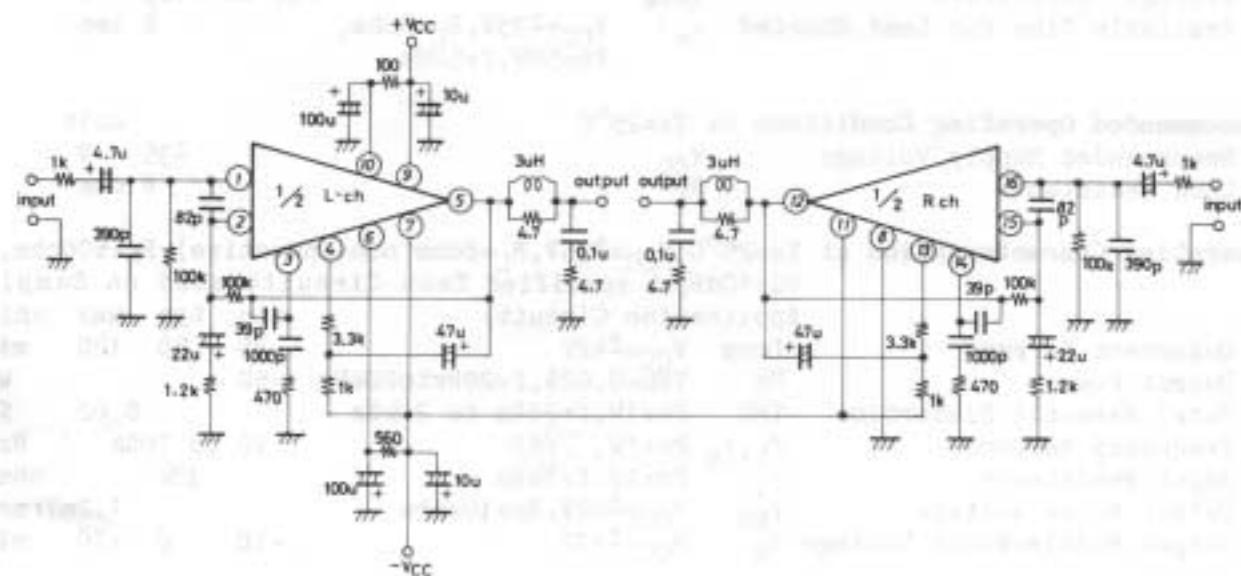
Specified transformer power supply
(Equivalent to MG200)

Case Outline 4029
(unit:mm)



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

Equivalent Circuit**Sample Application Circuit : 50W min 2-channel AF Power amp**

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.