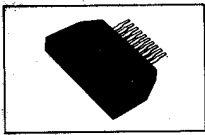


No. C761B

STK085-105



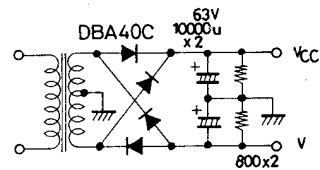
Thick Film Hybrid Integrated Circuit
60W MIN AF POWER AMP. (DUAL SUPPLIES)

Features

- Dual supplies, 1 channel, output power 60W min.
- Constant-current circuit built in differential stage
- Possible to externally connect load short protector
- Possible to add tone controller

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

Maximum supply voltage	V_{CC} max	± 55	V
Operating case temperature	T_C	105	$^\circ\text{C}$
Storage temperature	T_{stg}	$-30 \sim +105$	$^\circ\text{C}$
Available time for load shorted	t_s	$V_{CC} = \pm 42\text{V}, f = 50\text{Hz},$ $V_o = 22\text{V}, R_L = \text{open}$	2 sec



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

Recommended supply voltage	V_{CC}	± 38	V
Load resistance	R_L	8	Ω

Specified Transformer Power Supply

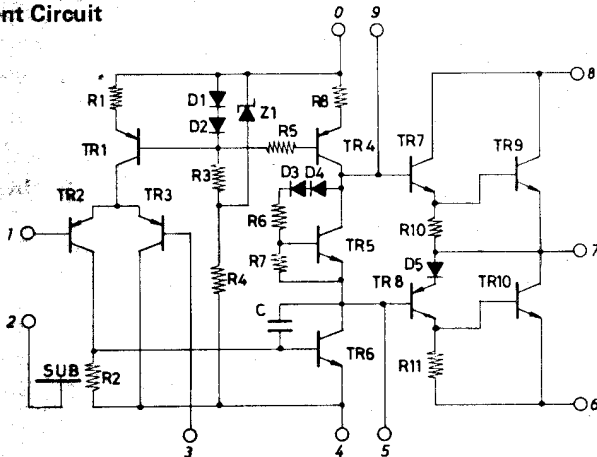
Operating Characteristics/ $T_a = 25^\circ\text{C}, V_{CC} = \pm 38\text{V}, R_L = 8\Omega, R_g = 600\Omega, V_G = 26.4\text{dB}$, at specified test circuit

			min	typ	max	unit
Quiescent current	I_{CCO}	$V_{CC} = \pm 46\text{V}$		50	100	mA
Output power	P_o (1)	THD = 0.2%, $f = 20 \sim 20\text{kHz}$	60			W
	P_o (2)	THD = 0.2%, $f = 1\text{kHz}$		70		W
	P_o (3)	$V_{CC} = \pm 46\text{V}, \text{THD} = 0.2\%, f = 1\text{kHz}$		80		W
Total harmonic distortion	THD (1)	$P_o = 1 \sim 60\text{W}, f = 20 \sim 20\text{kHz}$			0.2	%
	THD (2)	$P_o = 1\text{W}, f = 1\text{kHz}$		0.03		%
Frequency response	f	$P_o = 1\text{W}, -1\text{dB}$	10	100k		Hz
Input resistance	r_i	$P_o = 1\text{W}, f = 1\text{kHz}$		52k		Ω
Output noise voltage	V_{NO}	$V_{CC} = \pm 46\text{V}, R_g = 10\text{k}\Omega$		0.3	0.5	mVrms
Output middle point voltage	V_N	$V_{CC} = \pm 46\text{V}$	-70		+70	mV

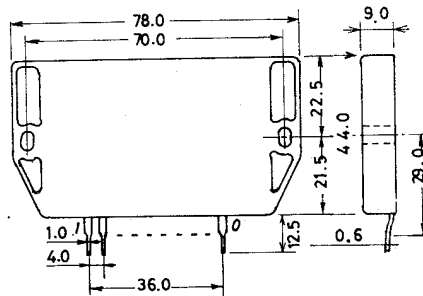
Note: For power supply at test, use a constant-voltage power supply unless otherwise specified.

*: Use the specified transformer power supply shown above right.

Equivalent Circuit



Case Outline 4030
(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 100 JAPAN