Thick Film Hybrid IC



Preliminary

Case Outline : 22 pins (See attached case outline drawing.)

Function : Dual-channel AF power amp

Use : 40W audio use

Feature : Built-in muting transistor

Maximum Ratings at Ta = 25°C				unit
Supply Voltage	V _{CC}		±49.5	v
Thermal Resistance	θj-c		1.8	°C/W
Junction Temperature	Tj		150	°C
Operating Case Temperature	T _C		125	°C
Storage Temperature	Tstg		-30 to $+125$	°C
Available Time for Load Shorted	t _s ∭1	$V_{CC} = \pm 33V, R_L = 8\Omega, f = 50Hz, Po = 40W$	2	S

Operating Characteristics at $Ta = 25^{\circ}C, R_L = 8\Omega, Rg = 600\Omega, VG = 40 dB$,

	R _L : non-inductive load,100kHz LPF ON			typ	max	unit
Quiescent Current	Icco	$V_{CC} = \pm 39.5 V$	50	100	150	mA
Output Power	Po (1)	$V_{CC} = \pm 33V, f = 20Hz \text{ to } 20kHz,$ THD = 0.02%	40			W
	Po (2)	$V_{CC} = \pm 28.5 V, f = 1 kHz, THD = 0.08\%,$ $R_L = 4\Omega$	45			W
Total Harmonic Distortion	THD	$V_{CC} = \pm 33V, Po = 1.0W, f = 1kHz$			0.02	%
Frequency Characteristic	$f_{L,f_{H}}$	$V_{CC} = \pm 33V, Po = 1.0W, \pm \frac{0}{3} dB$	20) to 50)k	Hz
Input Impedance	ri	$V_{CC} = \pm 33V, P_0 = 1.0W, f = 1kHz$		55		kΩ
Output Noise Voltage	V _{NO} ^{∦2}	$V_{CC} = \pm 39.5 V, Rg = 10 k\Omega$			1.2	nVrms
Midpoint Voltage	VN	$V_{\rm CC} = \pm 39.5 V$	-70	0	+70	mV
Muting Voltage	VM		2	-5	-10	v

Remarks

• For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.

- *1 · For measurement of the available time for load shorted and output noise voltage, use the specified transformer power supply shown below.
- *2 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.



Unit (resistance: Ω , capacitance: F)

Specified transformer power supply (equivalent to MG-200)

SANYO Electric Co., Ltd. Semiconductor Business Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN Package Dimensions (unit : mm)



Internal Equivalent Circuit



Test Circuit



Unit (resistance: Ω , capacitance: F)



- Anyone purchasing any products described or contained herein for an above-mentioned use shall: ① 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:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation 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 infringements of intellectual property rights or other rights of third parties.