Ordering number : ENA0319

SANYO Semiconductors
DATA SHEET

LA4262 — Monolithic Linear IC
Audio Output for Radio Cassette Recorder
Two-channel 7W Power Amplifier

Overview

The LA4262 is a two-channel 7W power amplifier IC.
The LA4262 only requires a minimal number of external components and thus is optimal for use as the audio output power amplifier in radio cassette recorders.

Functions

- Output : 7W×2 (V_{CC} = 15V, R_L = 3Ω)
- Standby function
- Pop noise reducing function
- Ripple filter
- Thermal protection circuit

Specifications

Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V_{CC} max	Rg = 0 (No signal)	24	V
Allowable power dissipation	Pd max	With a infinity large heat sink	25	W
Thermal resistance	θj-c		3.0	°C/W
Operating temperature	Topr		-20 to +75	°C
Storage temperature	Tstg		-40 to +150	°C

Operating Conditions at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V_{CC}		15	V
Recommended load resistance	R_L		3	Ω
Allowable operating voltage range	V_{CC} op	Under conditions where maximum ratings are not exceeded	5.0 to 22	V
Operating load resistance range	R_L op		2.7 to 8.0	Ω

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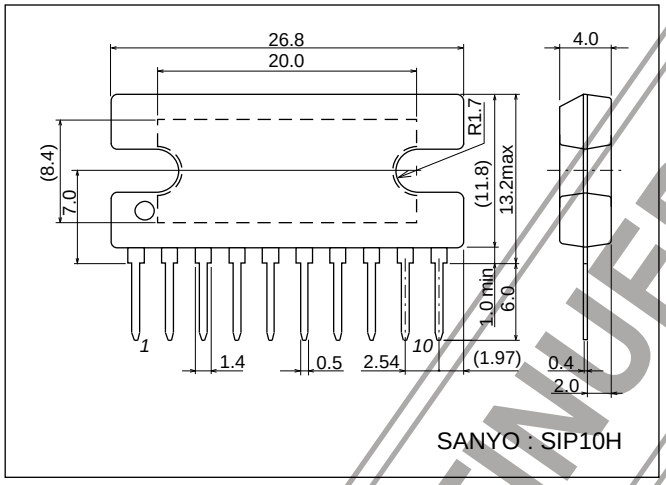
Electrical Characteristics at Ta = 25°C, V_{CC} = 15V, R_L = 3Ω, f = 1kHz, Rg = 600Ω, in the specified circuit board

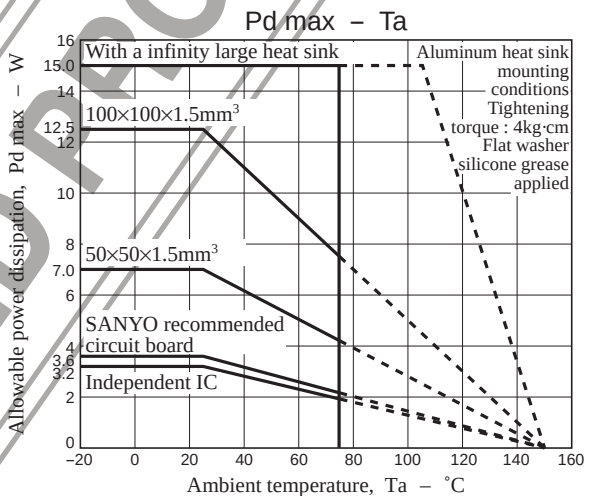
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Standby current	Ist	Standby pin→GND		1.0	10	μA
Quiescent current	I_{CCO}	Rg = 0	20	30	80	mA
Voltage gain	VG	V_O = 0dBm	33	35	37	dB
Total harmonic distortion	THD	P_O = 1W		0.15	0.6	%
Output noise voltage	V_{NO}	Rg = 0, DIN AUDIO		0.05	0.2	mV
Output power	P_O1	THD = 10%	6.0	7.0		W
	P_O2	V_{CC} = 9V, R_L = 4Ω. THD = 10%	1.5	2.0		W
Channel separation	Chsep	V_O = 0dBm, Rg = 0, DIN AUDIO	50	60		dB
Ripple rejection ratio	SVRR	Vr = 0dBm, Rg = 0, fr = 100Hz, DIN AUDIO	50	60		dB
Standby on voltage	Vst		1.5	5.0		V
Input resistance	Ri		20	30	40	kΩ

Package Dimensions

unit : mm (typ)

3024B





Block Diagram