

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 : $7W \times 2 (V_{CC} = 15V, R_L = 3\Omega)$
- Standby function
- Pop noise reducing function
- Ripple filter
- Thermal protection circuit

Specifications

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

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	өј-с		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	RL		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 = 3 Ω , f = 1kHz, Rg = 600 Ω , in the specified circuit board								
Parameter	Symbol	Conditions	Ratings			L La la		
			min	typ	max	Unit		
Standby current	lst	Standby pin→GND		1.0	10	μΑ		
Quiescent current	lcco	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 _O 1	THD = 10%	6.0	7.0		W		
	P _O 2	V_{CC} = 9V, R _L = 4 Ω . THD = 10%	1.5	2.0		W		
Channel separation	Chsep	$V_{O} = 0$ dBm, 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









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