

Features

- Compact package for thin-type audio sets
- Member of pin-compatible series with outputs of 30 to 100W
- · Easy heatsink design to disperse heat generated in thintype stereo sets
- Current mirror circuit for low 0.008% total harmonic distortion
- External supply switch-on and switch-off shock noise muting, load short-circuit protection, thermal shutdown and other circuits can be tailored-designed.

Package Dimensions

unit: mm





Specifications

Maximum Ratings at Ta = 25%

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V _{CC} max	and the second sec	±49	V
Thermal resistance	θι-ς		1.8	°C/W
Junction temperature	🔊 🖓 Тј 🥖		150	°C
Operating substrate temperature	Tc /		125	°C
Storage temperature	Tstg		-30 to +125	°C
Available time for load short-circuit	t _s	V_{CC} = ±33.5V, R_L = 8 Ω , f = 50Hz, P_O = 40W	2	S

Recommended Operating Conditions at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V _{CC}		±33.5	V
Load resistance	RL		8	Ω

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Operating Characteristics

at Ta = 25°C, V_{CC} = ±33.5V, R_L = 8 Ω (noninductive load), Rg = 600 Ω , VG = 40dB, 100kHz LPF on

Parameter	Symbol	Conditions	min	typ	max	Unit
Quiescent current	Icco	$V_{CC} = \pm 40V$	15	and a second	120	mA
Output power	P _O (1)	THD = 0.008%, f = 20Hz to 20kHz	40	And a series of the series of		and a state of the
	P _O (2)	$\label{eq:V_CC} \begin{array}{l} V_{CC} = \pm 30 \text{V}, \mbox{THD} = 0.04\%, \\ R_L = 4\Omega, \mbox{ f} = 1 \text{kHz} \end{array}$	45	1 30		Ne see
Total harmonic distortion	THD	P _O = 1.0W, f = 1kHz	- 1		0.008	¹ /2
Frequency response	f _L , f _H	$P_0 = 1.0W, {}^{+0}_{-3}dB$	est and a second second	20 to 50k	-//	Hz
Input impedance	r _i	P _O = 1.0W, f = 1kHz	and and	55	A set	kΩ
Output noise voltage ²	V _{NO}	$V_{CC} = \pm 40V, Rg = 10k\Omega$	<u> - </u>	- 10	1/2	mVrms
Neutral voltage	V _N	$V_{CC} = \pm 40V$	-70	0	ب ر مراجع المرجع ال	mV

Notes.

All tests are measured using a constant-voltage supply unless otherwise specified.

Available time for load short-circuit and output noise voltage are measured using the transformer supply specified below.
The output noise voltage is the peak value of an average-reading meter with an rms value scale. The noise voltage waveform does not inlcude any pulse noise.

Specified Transformer Supply (MG-200 or Equivalent)





Sample Application Circuit (40W min AF Power Amplifier)

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