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NTE1032

Linear Integrated Circuit, OTL Audio Power Amp, 1W

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC}	9V
Output Current, $I_{O(\text{peak})}$	1A
Power Dissipation (Note 1), P_T	1.2W
Operating Temperature Range (Note 2), T_{opr}	-30° to $+70^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+125^\circ\text{C}$

Note 1. Value at designated heat sink

Note 2. Value when attached to the heat sink plate ($\theta_1 = 34^\circ\text{C}$) at $P_T = 1.0\text{W}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = 6\text{V}$, $R_L = 4\Omega$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_Q		–	10	18	mA
Output Gain–Open Loop	$G_{V(OL)}$		–	90	–	dB
Closed Loop Gain	G_V		–	50	–	dB
Total Harmonic Distortion	THD	$P_{out} = 50\text{mW}$	–	0.3	1.0	%
Power Output	P_{out}	THD = 10%	0.8	1.0	–	W
Signal–to–Noise Ratio	S/N	$R_g = 0$, $P_{out} = 50\text{mW}$, with 20kHz L.P.F.	–	66	–	dB
Input Resistance	R_{in}		13	20	–	k Ω

Pin Connection Diagram

