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# NTE1340
# Integrated Circuit
# Module, Hybrid, Audio Power Amplifier, 24W
# 2 Power Supplies Required

**Absolute Maximum Ratings:** ($T_A$ = +25°C unless otherwise specified)

Maximum Supply Voltage, $V_{CC}$max . . . . . ±35V
Operating Case Temperature, $T_C$ . . . . . +85°C
Storage Temperature Range, $T_{stg}$ . . . . . –30° to +100°C
Available Time for Load Shorted ($V_{CC}$ = ±29V, $V_O$ = 14.2V, f = 50Hz), $t_s$ . . . . . 2sec

**Recommended Operating Conditions:** ($T_A$ = +25°C unless otherwise specified)

Recommended Supply Voltage, $V_{CC}$ . . . . . ±25V
Load Resistance, $R_L$ . . . . . 8Ω

**Electrical Characteristics:** ($T_A$ = +25°C, $V_{CC}$ = ±25V, $R_L$ = 8Ω, $R_g$ = 600Ω unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Quiescent Current | $I_{CCO}$ | $V_{CC}$ = ±29V | – | 50 | 100 | mA |
| Output Power | $P_O$ | THD = 0.2%, f = 20Hz to 20kHz | 24 | – | – | W |
| | | THD = 0.2%, f = 1kHz | – | 28 | – | W |
| | | $V_{CC}$ = ±29V, THD = 0.2%, f = 1kHz | – | 40 | – | W |
| Total Harmonic Distortion | THD | $P_O$ = 0.1W to 24W, f = 20Hz to 20kHz | – | – | 0.2 | % |
| Frequency Response | f | $P_O$ = 1W | 10 to 100k | | | Hz |
| Input Resitance | $r_i$ | $P_O$ = 1W, f = 1kHz | – | 52k | – | Ω |
| Output Noise Voltage | $V_{NO}$ | $V_{CC}$ = ±29V, $R_g$ = 10kΩ | – | 0.3 | 0.5 | $mV_{rms}$ |
| Midpoint Voltage | $V_N$ | $V_{CC}$ = ±29V | –70 | – | +70 | mV |

**Pin Connection Diagram**
(Front View)