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# NTE1081A
# Integrated Circuit
# Audio Power Amplifier, 4.8W

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

Supply Voltage, $V_{CC}$
- Zero Input . . . . . 20V
- Operating . . . . . 17V

Collector Current, $I_{CC(Peak)}$ . . . . . 2.5A
Power Dissipation (with external heat sink), $P_D$ . . . . . 7W
Operating Temperature Range, $T_{opr}$ . . . . . –20° to +75°C
Storage Temperature Range, $T_{stg}$ . . . . . –40° to +150°C

**Electrical Characteristics:** ($T_A$ = +25°C, $V_{CC}$ = 13.2V, f = 1kHz, $R_L$ = 4Ω, unless otherwise specified)

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|---|---|---|---|---|---|---|
| Standby Current | $I_{CC}$ | Zero Input | 15 | 28 | 45 | mA |
| Output Power | $P_O$ | THD = 10% | 4.0 | 4.8 | – | W |
| Total Harmonic Distortion | THD | $P_O$ = 0.5W | – | 0.6 | 1.2 | % |
| Closed–Loop Voltage Gain | $G_V$ | | 49.0 | 51.5 | 52.0 | dB |
| Output Noise Level | $V_{NO}$ | $R_g$ = ∞ | – | 1.4 | 4.0 | mV |

**Pin Connection Diagram**




