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NTE1282 Integrated Circuit Module – Hybrid, Audio Power Amplifier, 35W

Features:

- 2 Power Supplies Required
- Darlington Type
- Quasi-Complementary Output

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

Maximum Supply Voltage, V_{CCmax} $\pm 45\text{V}$
Collector Current, I_{Cmax} 5A
Operating Junction Temperature, T_J $+150^\circ\text{C}$
Storage Temperature Range, T_{stg} -30° to $+105^\circ\text{C}$
Thermal Resistance, Junction-to-Case, R_{thJC} 2.0°C/W
Allowable Load Shorting Time ($V_{CC} = \pm 31\text{V}$, $f = 50\text{Hz}$, $R_L = 8\Omega$, $P_O = 35\text{W}$), t_s 2sec

Recommended Operating Conditions: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Supply Voltage, V_{CC} $\pm 31\text{V}$
Load Resistance, R_L 8Ω

Electrical Characteristics: ($T_A = +25^\circ\text{C}$, $V_{CC} = \pm 31\text{V}$, $R_L = 8\Omega$, $R_g = 600\Omega$, $V_G = 40\text{dB}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	$V_{CC} = \pm 39\text{V}$	–	40	80	mA
Output Power	P_O	THD = 0.1%, $f = 20\text{Hz}$ to 20kHz	35	–	–	W
Total Harmonic Distortion	THD	$P_O = 1\text{W}$ to 35W , $f = 20\text{Hz}$ to 20kHz	–	–	0.1	%
		$P_O = 1\text{W}$, $f = 1\text{kHz}$	–	0.02	–	%

Pin Connection Diagram
(Front View)

