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

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

Supply Voltage, $V_{CC}$	±31V
Load Resistance, $R_L$	8Ω

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

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

**Pin Connection Diagram**  
(Front View)

