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## NTE176 Germanium PNP Transistor Audio Power Amplifier

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

Collector-Base Voltage, $V_{CBO}$ .....	20V
Emitter-Base Voltage, $V_{EBO}$ .....	10V
Continuous Collector Current, $I_C$ .....	2A
Total Power Dissipation ( $T_C = +25^\circ\text{C}$ ), $P_C$ .....	6W
Operating Junction Temperature, $T_J$ .....	+85°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +85°C

**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	$I_{CEO}$	$V_{CE} = 10V, I_B = 0$	-	0.9	10	mA
	$I_{CBO}$	$V_{CB} = 20V, I_E = 0$	-	25	500	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 6V, I_C = 0$	-	10	500	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CB} = 0, I_E = 2A$	40	75	-	-
Transition Frequency	$f_T$	$V_{CB} = 2V, I_E = 100\text{mA}$	0.3	1.2	-	MHz
Base-Emitter Voltage	$V_{BE}$	$V_{CB} = 0, I_E = 2A$	-	0.5	-	V
Collector-Emitter saturation Voltage	$V_{CE(sat)}$	$I_C = 2A, I_B = 200\text{mA}$	-	0.25	-	V

