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## NTE2654 (NPN) & NTE2664 (PNP) Silicon Complementary Transistors Audio Power Amp Output

**Features:**

- High Collector Breakdown Voltage
- Suitable for use in 80W High Fidelity Audio Amplifier Output Stage

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

Collector-Base Voltage, $V_{CBO}$ .....	230V
Collector-Emitter Voltage, $V_{CEO}$ .....	230V
Emitter-Base Voltage, $V_{EBO}$ .....	5V
Collector Current, $I_C$ .....	15A
Base Current, $I_B$ .....	1.5A
Collector Power Dissipation ( $T_C = +25^\circ\text{C}$ ), $P_C$ .....	130W
Operating Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	$I_{CBO}$	$V_{CB} = 230V, I = 0$	-	-	5.0	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0$	-	-	5.0	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 50\text{mA}, I_B = 0$	230	-	-	V
DC Current Gain NTE2654	$h_{FE}$	$V_{CE} = 5V, I_C = 1A$	80	-	160	
NTE2664			55	-	160	
Both Devices		$V_{CE} = 5V, I_C = 7A$	35	60	-	
Collector-Emitter Saturation Voltage NTE2654	$V_{CE(sat)}$	$I_C = 8A, I_B = 0.8A$	-	0.4	3.0	V
NTE2664			-	1.5	3.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = 5V, I_C = 7A$	-	1.0	1.5	V
Transition Frequency	$f_T$	$V_{CE} = 5V, I_C = 1A$	-	30	-	MHz
Collector Output Capacitance NTE2654	$C_{ob}$	$V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$	-	200	-	pF
NTE2664			-	360	-	pF

