



ELECTRONICS, INC.
44 FARRAND STREET
BLOOMFIELD, NJ 07003
(973) 748-5089
<http://www.nteinc.com>

NTE373 (NPN) & NTE374 (PNP) Silicon Complementary Transistors Audio Amplifier, Driver

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

Collector-Base Voltage, V_{CBO}	180V
Collector-Emitter Voltage, V_{CEO}	160V
Emitter-Base Voltage, V_{EBO}	5V
Collector Current, I_C	
Continuous	1.5A
Peak	3A
Collector Power Dissipation, P_D	
$T_A = +25^\circ\text{C}$	1W
$T_C = +25^\circ\text{C}$	20W
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	-55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1\text{mA}, I_E = 0$	180	—	—	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10\text{mA}, R_{BE} = \infty$	160	—	—	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1\text{mA}, I_C = 0$	5	—	—	V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 160\text{V}, I_E = 0$	—	—	10	μA
DC Current Gain	h_{FE1}	$V_{CE} = 5\text{V}, I_C = 150\text{mA}$	60	—	200	
	h_{FE2}	$V_{CE} = 5\text{V}, I_C = 500\text{mA}$	30	—	—	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$	—	—	1	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = 5\text{V}, I_C = 150\text{mA}$	—	—	1.5	V
Transistion Frequency	f_T	$V_{CE} = 5\text{V}, I_C = 500\text{mA}$	—	140	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10\text{V}, I_E = 0, f = 1\text{MHz}$	—	14	—	pF

