



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

NTE158 Germanium PNP Transistor Audio Power Amplifier

Description:

The NTE158 is a germanium PNP triode transistor in a TO1 type package designed for low-power, large signal audio applications.

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

Collector-Base Voltage, V_{CBO}	32V
Collector-Emitter Voltage ($R_{BE} \leq 500\pm$), V_{CER}	32V
Emitter-Base Voltage, V_{EBO}	10V
Collector Current, I_C	1A
Base Current, I_B	40mA
Power Dissipation ($T_A = +25^\circ\text{C}$), P_C	550mW
Derate Above 25°C	0.3mW/ $^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+90^\circ\text{C}$
Lead Temperature (During Soldering, 1/16" \pm 1/32" from case for 5sec), T_L	$+245^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 200\leq A, I_E = 0$	32	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 200\leq A, I_C = 0$	10	-	-	V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -10V, I_E = 0$	-	-	10	$\leq A$
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -5V, T_J = +75^\circ\text{C}$	-	-	500	$\leq A$
DC Current Gain	h_{FE}	$V_{CB} = 1V, I_C = 300mA$	50	90	175	
Base-Emitter Voltage	V_{BE}	$V_{CE} = 1V, I_C = 300mA$	280	-	600	mV
Forward Current Transfer Cutoff Frequency	f_{hfe}		10	-	20	kc
Output Capacitance	C_{ob}	$V_{CB} = -5V, I_E = 0 @ 0.45mc$	80	-	105	pF

