

NTE192 (NPN) & NTE193 (PNP) NTE192A (NPN) & NTE193A (PNP) Silicon Complementary Transistors Audio Power Output

Description:

NTE192 (NPN)/NTE193 (PNP) and NTE192A (NPN)/NTE193A (PNP) are silicon complementary transistors in a TO92HS type package designed for use in general purpose industrial circuits. These devices are especially suited for high level linear amplifiers or medium speed switching circuits in industrial control applications.

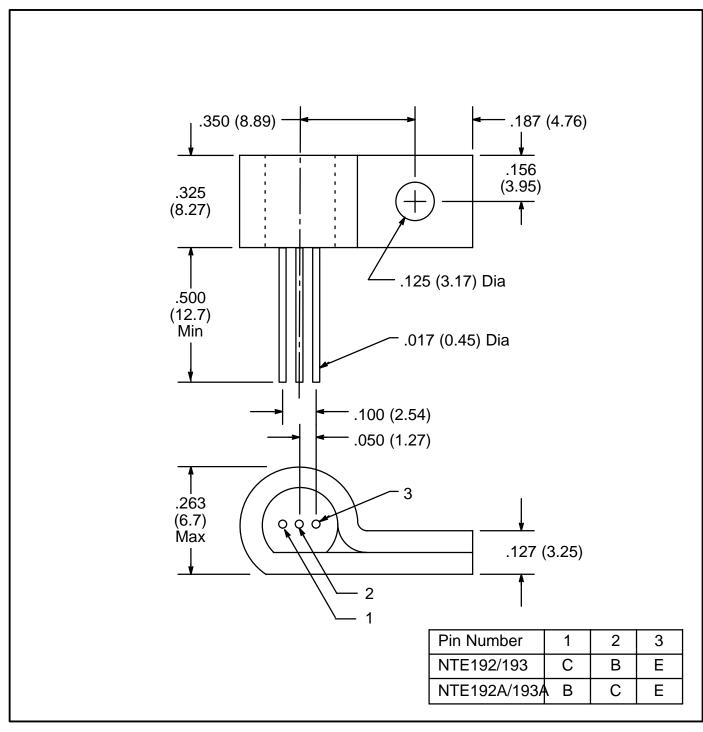
Absolute Maximum Ratings: $(T_A = +25^{\circ}C)$ unless otherwise specified)	
Collector–Emitter Voltage, V _{CEO}	ΟV
Collector–Base Voltage, V _{CBO} 5	ΟV
Emitter–Base Voltage, V _{EBO}	5V
Continuous Collector Current (Note 1), I _C	nΑ
Total Power Dissipation ($T_C = +25^{\circ}C$, Note 1), P_T	ηW
Derate Above 25°C	/°C
Total Power Dissipation ($T_A = +25^{\circ}C$), P_T	٦W
Derate Above 25°C	/°C
Operating Junction Temperature, T _J +150)°C
Storage Temperature Range, T _{stg} –55° to +150)°C
Lead Temperature (During Soldering, 1/16" ±1/32" from case for 10sec max), T _L +260)°C
Note 1. Determined from power limitations due to saturation voltage at this current.	

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit				
DC Characteristics										
Collector Cutoff Current	I _{CBO}	V _{CB} = 50V	_	_	0.1	μΑ				
		V _{CB} = 50V, T _A = +100°C	_	_	15	μΑ				
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 5V$	_	_	0.1	μΑ				
Collector Saturation Voltage	V _{CE(sat)}	$I_B = 3mA$, $I_C = 50mA$	_	_	0.30	V				
Base Saturation Voltage	V _{BE(sat)}	$I_B = 3mA$, $I_C = 50mA$	_	_	0.85	V				
DC Current Gain	h _{FE}	$V_{CE} = 4.5V, I_{C} = 2mA$	180	_	540					

<u>Electrical Characteristics (Cont'd)</u>: $(T_A = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Small-Signal Characteristics	•		•			
Small-Signal Current Gain	h _{fe}	V _C = 4.5V, Frequency of Measurement =1000cps	180	_	_	
		$V_{CE} = 10V, I_{C} = 1mA, f = 1kc$	150	_	300	
Input Impedance	h _{ie}	$V_{CE} = 10V, I_{C} = 1mA, f = 1kc$	4200	_	8300	Ω
Output Admittance	h _{oe}	$V_{CE} = 10V, I_{C} = 1mA, f = 1kc$	10	_	20	μmhos
Voltage Feedback Ratio	h _{re}	$V_{CE} = 10V, I_{C} = 1mA, f = 1kc$	0.2	_	0.4	x 10 ⁻³



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