

NTE284 (NPN) & NTE285 (PNP) Silicon Complementary Transistors Audio Amplifier Output

Description:

The NTE284 (NPN) and NTE285 (PNP) are silicon complementary power transistors in a TO3 type package designed for use in power amplifier applications.

Applications:

Recommended for 100W High–Fidelity Audio Frequency Amplifier Output Stage

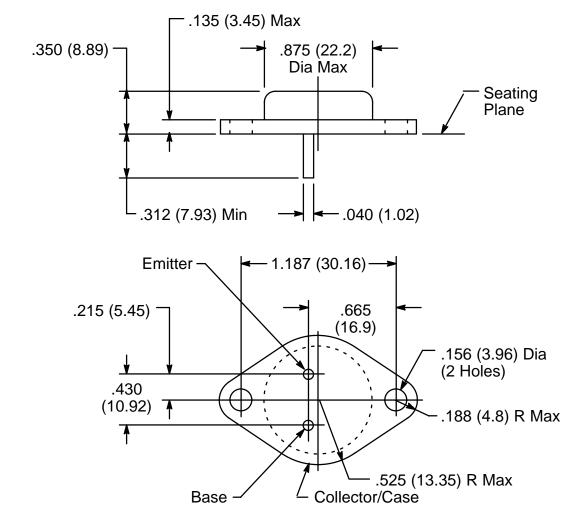
Absolute Maximum Ratings: $(T_A = +25^{\circ}C)$ unless otherwise specified)

Collector to Base Voltage, V _{CBO}	180V
Collector to Emitter Voltage, V _{CEO}	
Emitter to Base Voltage, V _{EBO}	5V
Collector Current, I _C	16A
Emitter Current, I _E	16A
Power Dissipation, P _C	. 150W
Junction Temperature, T _i	+150°C
Storage Temperature, T _{stq} –65°C to	+150°C

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

Parameter	Symbol	Condition	Min	Тур	Max	Unit
Collector Cutoff Current	I _{CBO}	$V_{CB} = 90V, I_{E} = 0$	_	_	100	μΑ
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$	_	_	100	μΑ
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 0.1A, I_B = 0$	180	_	_	V
Emitter-Base Breakdown Voltage	V _{(BR)EBO}	$I_E = 10 \text{mA}, I_C = 0$	5	_	_	V
DC Current Gain	h _{FE}	$V_{CE} = 5V$, $I_C = 2A$	70	_	140	V
Collector–Emitter Saturation Voltage	V _{CE(sat)}	I _C = 10A, I _B = 1A	_	_	3.0	V
Base to Emitter Voltage	V _{BE}	$V_{CE} = 5V, I_{C} = 10A$	_	_	2.5	V
Current Gain Bandwidth Product	f _T	$V_{CE} = 5V$, $I_C = 2A$	_	6	_	MH_Z
Output Capacitance NTE284	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MH_Z$	1	300	_	pF
NTE285			_	450	_	pF

- Note 1. NTE284MP is a matched pair of NTE284 with their DC Current Gain (h_{FE}) matched to within 10% of each other.
- Note 2. NTE285MP is a matched pair of NTE285 with their DC Current Gain (h_{FE}) matched to within 10% of each other.
- Note 3. NTE285MCP is a matched complementary pair containing 1 each of NTE284 (NPN) and NTE285 (PNP).



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