

# 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

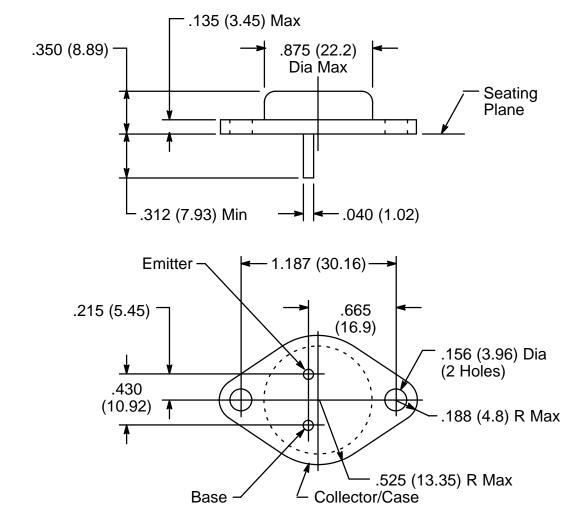
#### **Absolute Maximum Ratings:** $(T_A = +25^{\circ}C)$ unless otherwise specified)

Collector to Base Voltage, V <sub>CBO</sub>	180V
Collector to Emitter Voltage, V <sub>CEO</sub>	
Emitter to Base Voltage, V <sub>EBO</sub>	5V
Collector Current, I <sub>C</sub>	16A
Emitter Current, I <sub>E</sub>	16A
Power Dissipation, P <sub>C</sub>	. 150W
Junction Temperature, T <sub>i</sub>	+150°C
Storage Temperature, T <sub>stq</sub> –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 <sub>CBO</sub>	$V_{CB} = 90V, I_{E} = 0$	_	_	100	μΑ
Emitter Cutoff Current	I <sub>EBO</sub>	$V_{EB} = 5V, I_{C} = 0$	_	_	100	μΑ
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 0.1A, I_B = 0$	180	_	_	V
Emitter-Base Breakdown Voltage	V <sub>(BR)EBO</sub>	$I_E = 10 \text{mA}, I_C = 0$	5	_	_	V
DC Current Gain	h <sub>FE</sub>	$V_{CE} = 5V$ , $I_C = 2A$	70	_	140	V
Collector–Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = 10A, I <sub>B</sub> = 1A	_	_	3.0	V
Base to Emitter Voltage	V <sub>BE</sub>	$V_{CE} = 5V, I_{C} = 10A$	_	_	2.5	V
Current Gain Bandwidth Product	f <sub>T</sub>	$V_{CE} = 5V$ , $I_C = 2A$	_	6	_	$MH_Z$
Output Capacitance NTE284	C <sub>ob</sub>	$V_{CB} = 10V, I_E = 0, f = 1MH_Z$	1	300	_	pF
NTE285			_	450	_	pF

- Note 1. NTE284MP is a matched pair of NTE284 with their DC Current Gain (h<sub>FE</sub>) matched to within 10% of each other.
- Note 2. NTE285MP is a matched pair of NTE285 with their DC Current Gain (h<sub>FE</sub>) 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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