NTE289A (NPN) & NTE290A (PNP)
Silicon Complementary Transistors
Audio Power Amplifier

Features:

- High Breakdown Voltage: $V_{(BR)CEO}$ = 80V Min
- High Current: I_C = 500mA
- Low Saturation Voltage

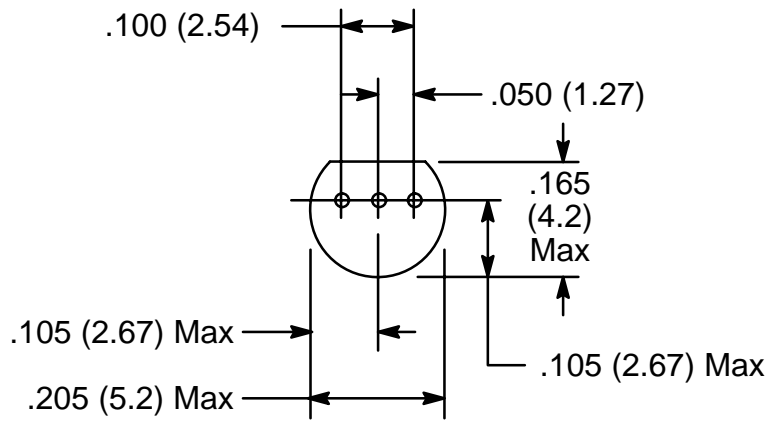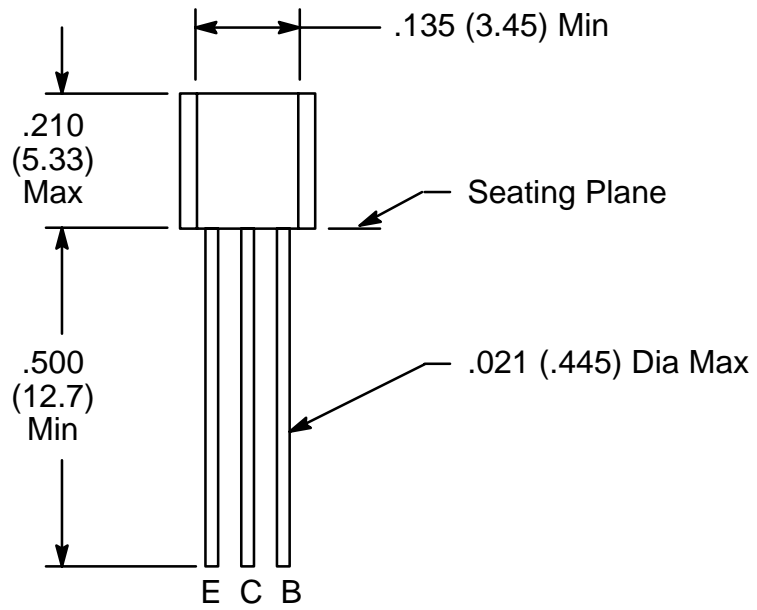## Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Collector–Base Voltage, V_{CBO} 100V

Collector–Emitter Voltage, V_{CEO} 80V

Emitter–Base Voltage, V_{EBO} 5V

Collector Current , I_C

      Continuous 500mA

      Peak 800mA

Collector Dissipation, P_C 600mW

Operating Junction Temperature, T_J .... +150°C

Storage Temperature Range, T_{stg} .... −55° to +150°C

Electrical Characteristics: (T_A = +25°C unless otherewise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	I_C = 10µA, I_E = 0	100	–	–	V
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = 1mA, R_{BE} = Open	80	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	I_E = 10µA, I_C = 0	5	–	–	V
Collector Cutoff Current	I_{CBO}	V_{CB} = 40V, I_E = 0	–	–	1.0	µA
Emitter Cutoff Current	I_{EBO}	V_{EB} = 4V, I_C = 0	–	–	1.0	µA
DC Current Gain	$h_{FE (1)}$	V_{CE} = 5V, I_C = 50mA	100	–	200	
	$h_{FE (2)}$	V_{CE} = 5V, I_C = 400mA (Pulse)	35	–	–	
Collector–Emitter Saturation Voltage NTE289A	$V_{CE(sat)}$	I_C = 400mA, I_B = 40mA	–	0.2	0.6	V
NTE290A			–	0.25	0.60	V
Current–Gain Bandwidth Product	f_T	V_{CE} = 10V, I_C = 10mA	–	120	–	MHz
Output Capacitance NTE289A	C_{ob}	V_{CB} = 10V, f = 1MHz	–	5	–	pF
NTE290A			–	9	–	pF

Note 1. NTE289AMP is a matched pair of NTE289A with their DC Current Gain (h_{FE}) matched to within 10% of each other.

Note 2. NTE290AMCP is a matched complementary pair containing 1 each of NTE289A (NPN) and NTE290A (PNP).

.135 (3.45) Min

.210
(5.33)
Max

Seating Plane

.500
(12.7)
Min

.021 (.445) Dia Max

E C B

.100 (2.54)

.050 (1.27)

.165
(4.2)
Max

.105 (2.67) Max

.105 (2.67) Max

.205 (5.2) Max

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