NTE2697
Silicon NPN Transistor
General Purpose
TO–220 Type Package

Features:

- Low Collector Saturation Voltage: $V_{CE(sat)}$ = 0.5V Max @ I_C = 3A
- Collector–Emitter Breakdown Voltage: $V_{(BR)CEO}$ = 120V Min
- Good Linearity of h_{FE}

Applications:

- Humidifier
- DC/DC Converter
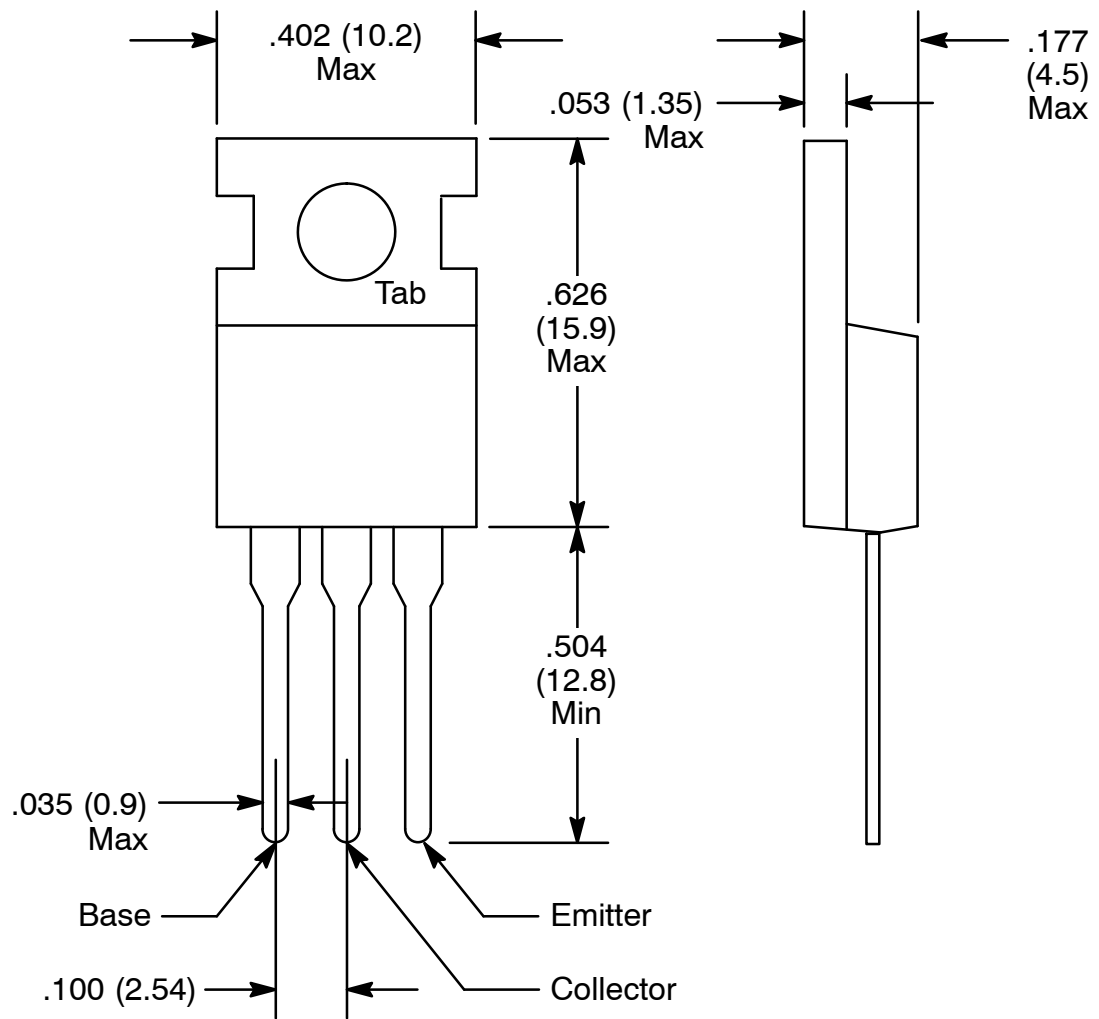- General Purpose Power Amplifiers

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

Collector–Base Voltage, V_{CBO} 200V

Collector–Emitter Voltage, V_{CEO} 120V

Emitter–Base Voltage, V_{EBO} 8V

Collector Current, I_C
      Continuous 7A
      Pulse 14A

Continuous Base Current, I_B 3A

Collector Power Dissipation (T_C = +25°C), P_C 50W

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

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

Electrical Characteristics: (T_C = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = 50mA, I_B = 0	120	–	–	V
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = 3A, I_B = 300mA	–	–	0.5	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	I_C = 3A, I_B = 300mA	–	–	1.2	V
Collector Cut–Off Current	I_{CBO}	V_{CB} = 200V, I_E = 0	–	–	100	μA
Emitter Cut–Off Current	I_{EBO}	V_{EB} = 8V, I_C = 0	–	–	100	μA
DC Current Gain	h_{FE}	I_C = 3A, V_{CE} = 4V	100	–	200	

.402 (10.2)
Max

.177
(4.5)
Max

.053 (1.35)
Max

Tab

.626
(15.9)
Max

.504
(12.8)
Min

.035 (0.9)
Max

Base

.100 (2.54)

Emitter

Collector

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