

NTE2504 Silicon NPN Transistor High Gain Audio Amplifier

Features:

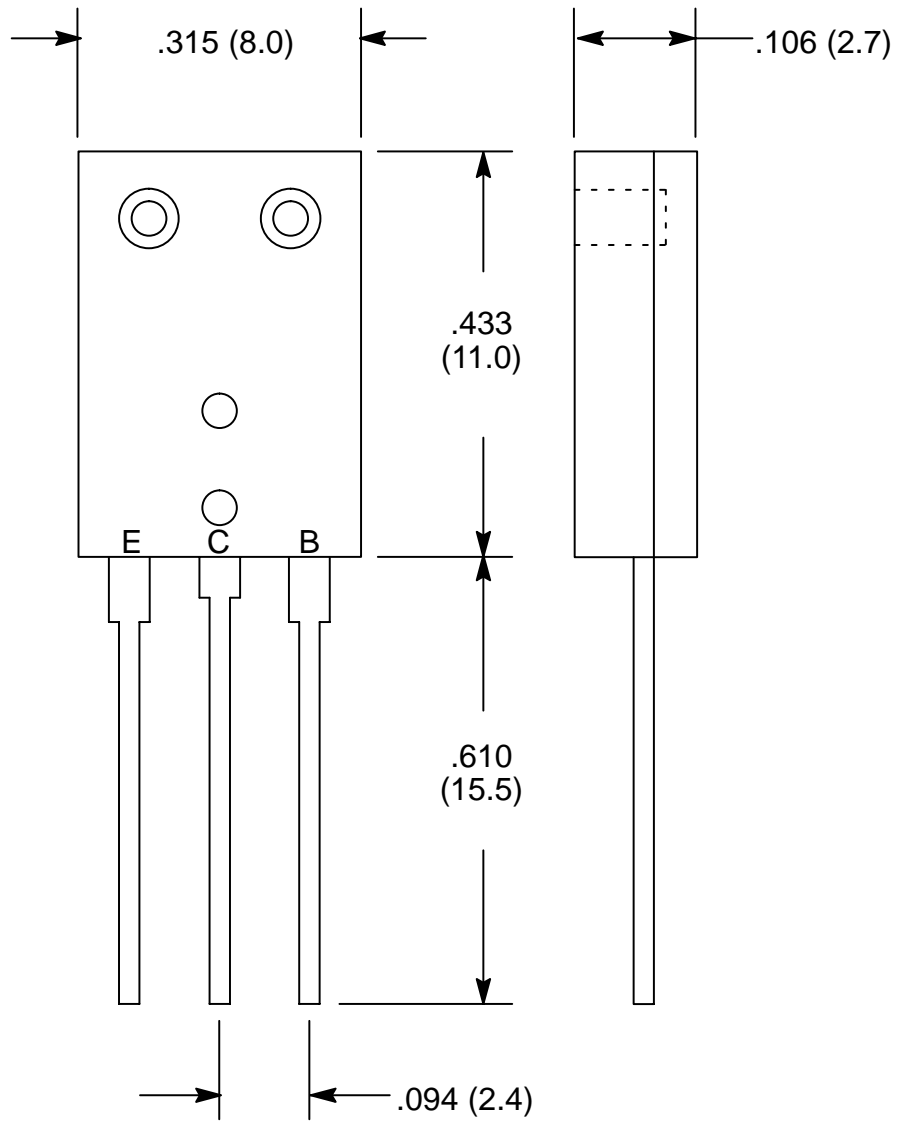
- Large Current Capacity ($I_C = 2A$)
- Adoption of MBIT Process
- High DC Current Gain: $h_{FE} = 800$ to 3200
- Low Collector–Emitter Saturation Voltage: $V_{CE(sat)} < 0.5V$

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

Collector–Base Voltage, V_{CBO}	30V
Collector–Emitter Voltage, V_{CEO}	25V
Emitter–Base Voltage, V_{EBO}	15V
Collector Current, I_C	
Continuous	2A
Peak	4A
Collector Dissipation, P_C	1.2W
Junction Temperature, T_J	$+150^\circ C$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ C$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 20V, I_E = 0$	–	–	0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 10V, I_C = 0$	–	–	0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = 5V, I_C = 500mA$	800	1500	3200	
Current Gain–Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 50mA$	–	260	–	MHz
Output Capacitance	C_{ob}	$V_{CE} = 10V, f = 1MHz$	–	27	–	pF
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 1A, I_B = 20mA$	–	0.15	0.5	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 1A, I_B = 20mA$	–	0.85	1.2	V
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10A, I_E = 0$	30	–	–	V



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