



**ELECTRONICS, INC.**  
 44 FARRAND STREET  
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## NTE315 Silicon NPN Transistor, Medium Power Amp

**Features:**

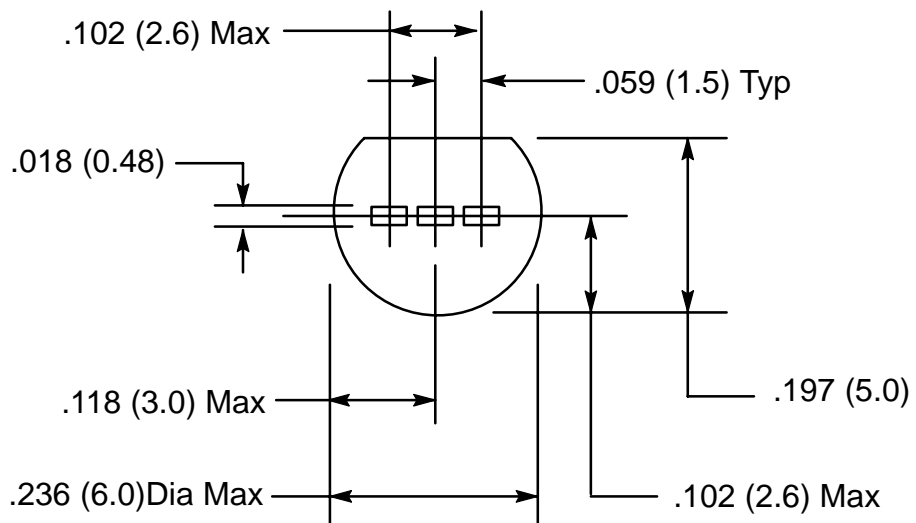
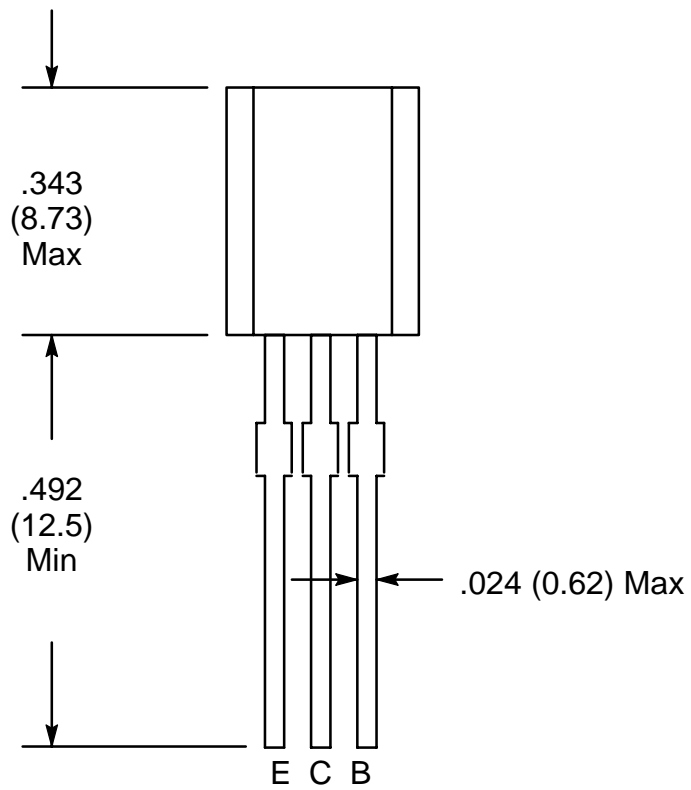
- AF – HF Medium Power Amplifier

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

Collector-to-Base Voltage, $V_{CBO}$ .....	100V
Collector-to-Emitter Voltage, $V_{CEO}$ .....	50V
Emitter-to-Base Voltage, $V_{EBO}$ .....	6V
Collector Current, $I_C$ .....	1A
Base Current, $I_B$ .....	0.5A
Collector Power Dissipation, $P_C$ .....	750mW
Junction Temperature, $T_J$ .....	+120°C
Storage Temperature Range, $T_{stg}$ .....	-50° to +150°C
Thermal Resistance, Junction-to-Ambient, $R_{thJA}$ .....	126°C/W

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 25V, I_E = 0$	–	–	0.2	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 6V, I_C = 0$	–	–	0.2	$\mu\text{A}$
Base to Emitter Voltage	$V_{BE}$	$V_{CE} = 6V, I_C = 5\text{mA}$	–	–	0.7	V
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C = 2\text{mA}$	50	–	–	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 1A, I_B = 50\text{mA}$	–	–	0.3	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 1A, I_B = 50\text{mA}$	–	–	1.0	V
DC Current Gain	$h_{FE1}$	$V_{CE} = 2V, I_C = 100\text{mA}$	199	–	649	
	$h_{FE2}$	$V_{CE} = 1V, I_C = 1A$	70	–	–	
Small Signal Current Gain	$ h_{fe} $	$V_{CB} = 2V, I_E = -10\text{mA},$ $f = 10\text{MHz}$	–	18	–	dB
Collector Output Capacitance	$C_C$	$V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$	–	16	40	pf



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