ELECTRONICS, INC.
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NTE105
Germanium PNP Transistor
Audio Power Amp

Description:

The NTE105 is a germanium PNP power transistor in a TO36 type package designed for use in power switching and amplifier applications.

Absolute Maximum Ratings:

Collector–Emitter Voltage, V_{CES} 40V
Collector–Base Voltage, V_{CB} 40V
Emitter–Base Voltage, V_{EB} 20V
Continuous Base Current, I_B 4A
Continuous Emitter Current, I_E 15A
Total Device Dissipation (T_C = +25°C), P_D 150W
Operating Junction Temperature Range, T_J . . . . . –65° to +100°C
Thermal Resistance, Junction–to–Case, R_{thJC} . . . . . 0.5°C/W

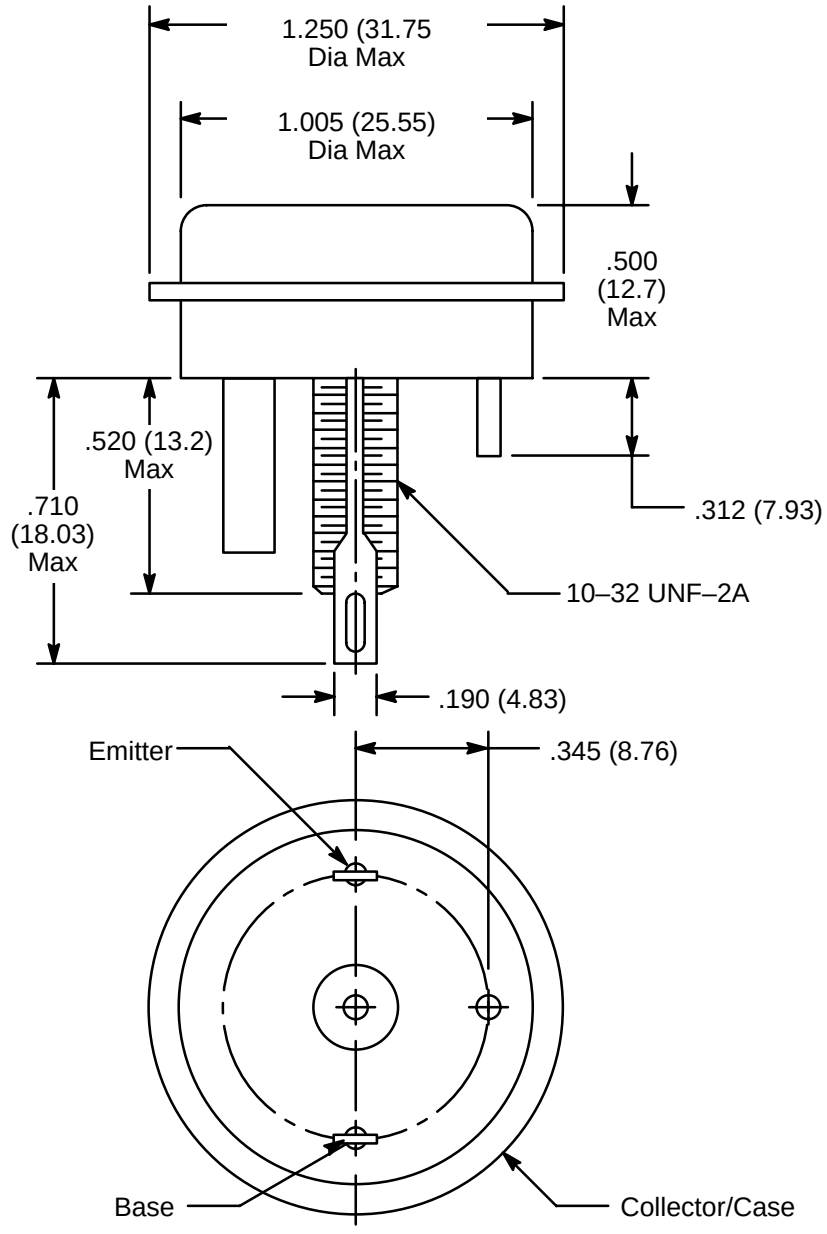
Electrical Characteristics: (T_C = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OFF Characteristics						
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = 1A, I_B = 0, Note 1	25	–	–	V
	$V_{(BR)CES}$	I_C = 300mA, V_{BE} = 0, Note 1	40	–	–	V
Floating Potential	V_{EBF}	V_{CB} = 40V, I_E = 0	–	–	1.0	V
Collector Cutoff Current	I_{CBO}	V_{CB} = 2V, I_E = 0	–	0.1	–	mA
		V_{CB} = 40V, I_E = 0	–	2.0	8.0	mA
		V_{CB} = 40V, I_E = 0, T_B = +71°C	–	–	15	mA
Emitter Cutoff Current	I_{EBO}	V_{BE} = 20V, I_C = 0	–	1.0	8.0	mA
ON Characteristics						
DC Current Gain	h_{FE}	V_{CE} = 2V, I_C = 5A	20	–	40	
		V_{CE} = 2V, I_C = 12A	–	20	–	
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = 12A, I_B = 2A	–	0.3	–	V
Base–Emitter Voltage	V_{BE}	V_{CE} = 2V, I_C = 5A	–	0.65	–	V

Note 1. Pulse test: Pulse Width ≤ 300μs, Duty Cycle ≤ 2%.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Dynamic Characteristics						
Common–Emitter Cutoff Frequency	fαe	V_{CE} = 6V, I_C = 5A	–	10	–	kHz
Switching Characteristics						
Rise Time	t_r	V_{CE} = 12V, I_C = 12A, I_B = 2A	–	15	–	µs
Fall Time	t_f	V_{BE} = 6V, I_C = 0, R_{BE} = 10Ω	–	15	–	µs



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