

NTE171 Silicon NPN Transistor Audio/Video Amplifier

Description:

The NTE171 is a silicon NPN transistor in a TO202 type case designed for high-voltage TV video and chroma output circuits, high-voltage linear amplifiers, and high-voltage transistor regulators.

Features:

- High Collector–Emitter Breakdown Voltage Voltage: $V_{(BR)CER} = 300V @ I_C = 1mA$
- Low Collector-Base Capacitance: C_{cb} = 3pF Max @ V_{CB} = 20V

Absolute Maximum Ratings:

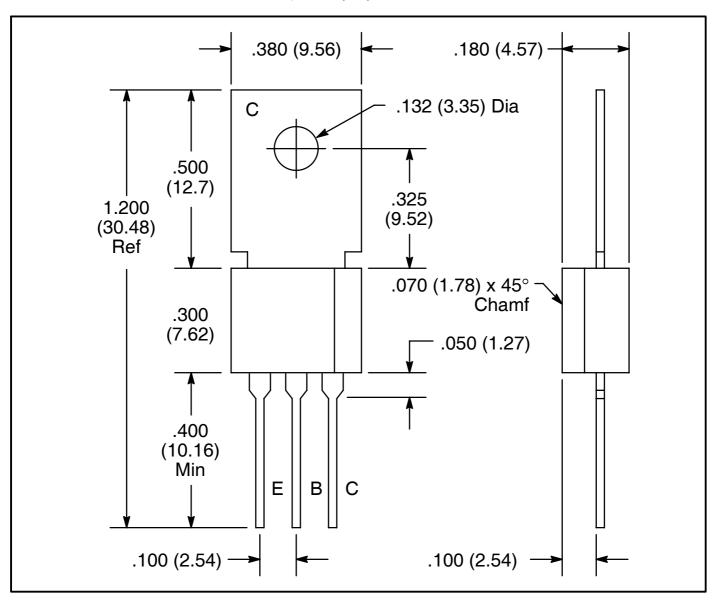
Collector–Emitter Voltage (I_C = 1mA, R_{BE} = 10k Ω , Note 1), V_{CER}	300V
Collector Current, I _C Continuous	100mA 700mA
Base Current, I _B	250mA
Total Power Dissipation (T _A = +25°C), P _D	1.67W 13.3mW/°C
Total Power Dissipation (T _C = +25°C), P _D	6.25W 50mW/°C
Operating Junction Temperature Range, T _J	. −55° to +150°C
Storage Temperature Range, T _{stg}	. −55° to +150°C
Thermal Resistance, Junction to Ambient, R _{⊖JA}	
Thermal Resistance, Junction to Case, $R_{\Theta JC}$	20°C/W
Lead Temperature (During Soldering, 1/16" from case, 10sec), T _L	+260°C
Note 1 Dules Tests Dules Width < 200 ps. Duty Cycle < 20/	

Note 1. Pulse Test: Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$.

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

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit		
OFF Characteristics								
Collector-Emitter Breakdown Voltage	V _{(BR)CER}	$I_C = 1$ mA, $I_B = 0$, Note 1	300	_	_	V		
Collector Cutoff Current	I _{CBO}	$V_{CB} = 300V, I_{E} = 0$	_	_	10	μΑ		
Emitter Cutoff Current	I _{EBO}	$V_{BE} = 5V, I_{C} = 0$	_	_	10	μΑ		
ON Characteristics (Note 1)								
DC Current Gain	h _{FE}	$I_C = 4mA$, $V_{CE} = 10V$	20	_	_			
		I _C = 20mA, V _{CE} = 10V	30	_	150			
		I _C = 40mA, V _{CE} = 10V	20	_	_			
Dynamic Characteristics								
Current Gain-Bandwidth Product	f _T	I _C = 20mA, V _{CE} = 10V, f = 20MHz	50	_	_	MHz		
Collector-Base Capacitance	C _{cb}	$V_{CB} = 20V, I_E = 0, f = 1MHz$	_	_	3	pF		

Note 1. Pulse Test: Pulse Width $\leq 300 \mu s,$ Duty Cycle $\leq 2\%.$



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