

NTE350 Silicon NPN Transistor RF Power Amp, Driver

Description:

The NTE350 is a silicon NPN transistor in a T72H type package designed primarily for use in 12.5V VHF large—signal power amplifier applications required in commercial and industrial equipment to 300MHz.

Features:

Specified 12.5V, 175MHz Characteristics:
Output Power = 15W
Minimum Gain = 6.3dB
Efficiency = 60%

Absolute Maximum Ratings:

Collector–Emitter Voltage, V _{CEO}	. 18V
Collector–Emitter Voltage, V _{CES}	. 36V
Emitter–Base Voltage, V _{EBO}	4V
Continuous Collector Current, I _C	2.5A
Total Device Dissipation (Note 1, T_C = +25°C), P_D	
Storage Temperature Range, T _{stg} 65° to +2	200°C

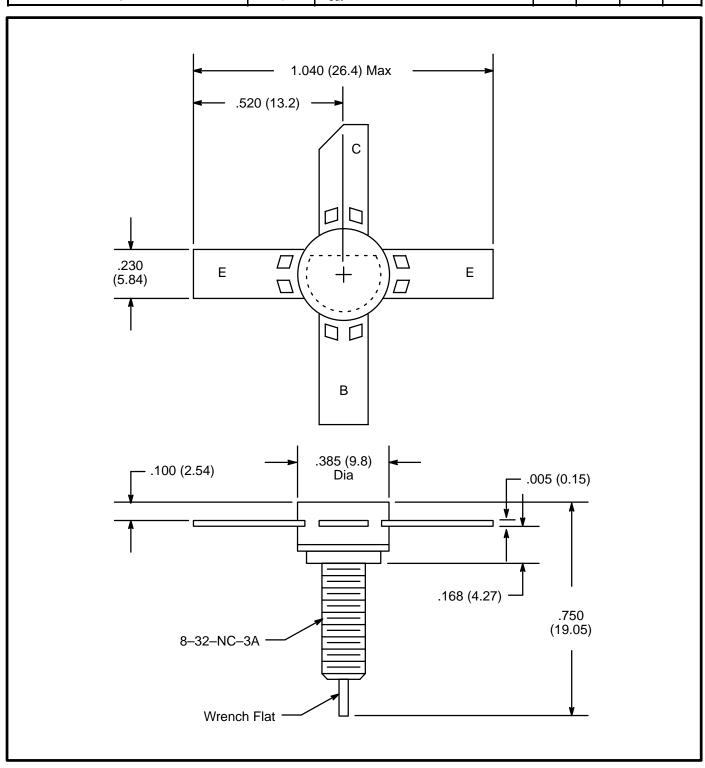
Note 1. This device is designed for RF operation. The total device dissipation rating applies only when the device is operated as an RF amplifier.

<u>Electrical Characteristics:</u> $(T_C = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit			
OFF Characteristics	•			•	•	-			
Collector–Emitter Breakdown Voltage	V _{(BR)CEO}	$I_C = 20 \text{mA}, I_B = 0$	18	_	_	V			
	V _{(BR)CES}	$I_C = 10 \text{mA}, V_{BE} = 0$	36	_	_	V			
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1 \text{mA}, I_C = 0$	4	_	_	V			
Collector Cutoff Current	I _{CBO}	$V_{CB} = 15V, I_E = 0$	_	_	0.5	mΑ			
	I _{CES}	$V_{CE} = 15V, V_{BE} = 0, T_{C} = +55^{\circ}C$	_	_	8	mΑ			
ON Characteristics									
DC Current Gain	h _{FE}	$I_C = 500 \text{mA}, V_{CE} = 5 \text{V}$	5	_	_				

<u>Electrical Characteristics (Cont'd):</u> $(T_C = +25^{\circ}C \text{ unless otherwise specified})$

Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit				
Dynamic Characteristics										
Output Capacitance	C _{ob}	V _{CB} = 15V, I _E = 0, f = 0.1MHz	_	70	85	pF				
Functional Tests (V _{CC} = 12.5V unless otherwise specified)										
Common–Emitter Amplifier Power Gain	G _{PE}	P _{out} = 15W, f = 175MHz	6.3	_	_	dB				
Collector Efficiency	η	P _{out} = 15W, f = 175MHz	60	_	_	%				



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