



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089
<http://www.nteinc.com>

NTE236
Silicon NPN Transistor
Final RF Power Output
($P_O = 16W, 27MHz, SSB$)
TO220AB

Description:

The NTE236 is a silicon NPN transistor in a TO220AB type package designed for 10–14 watt output power class AB amplifier applications in the HF band.

Features:

- High Power Gain: $G_{pe} \geq 12dB, P_O = 16W, f = 27MHz$
- High Reliability

Application:

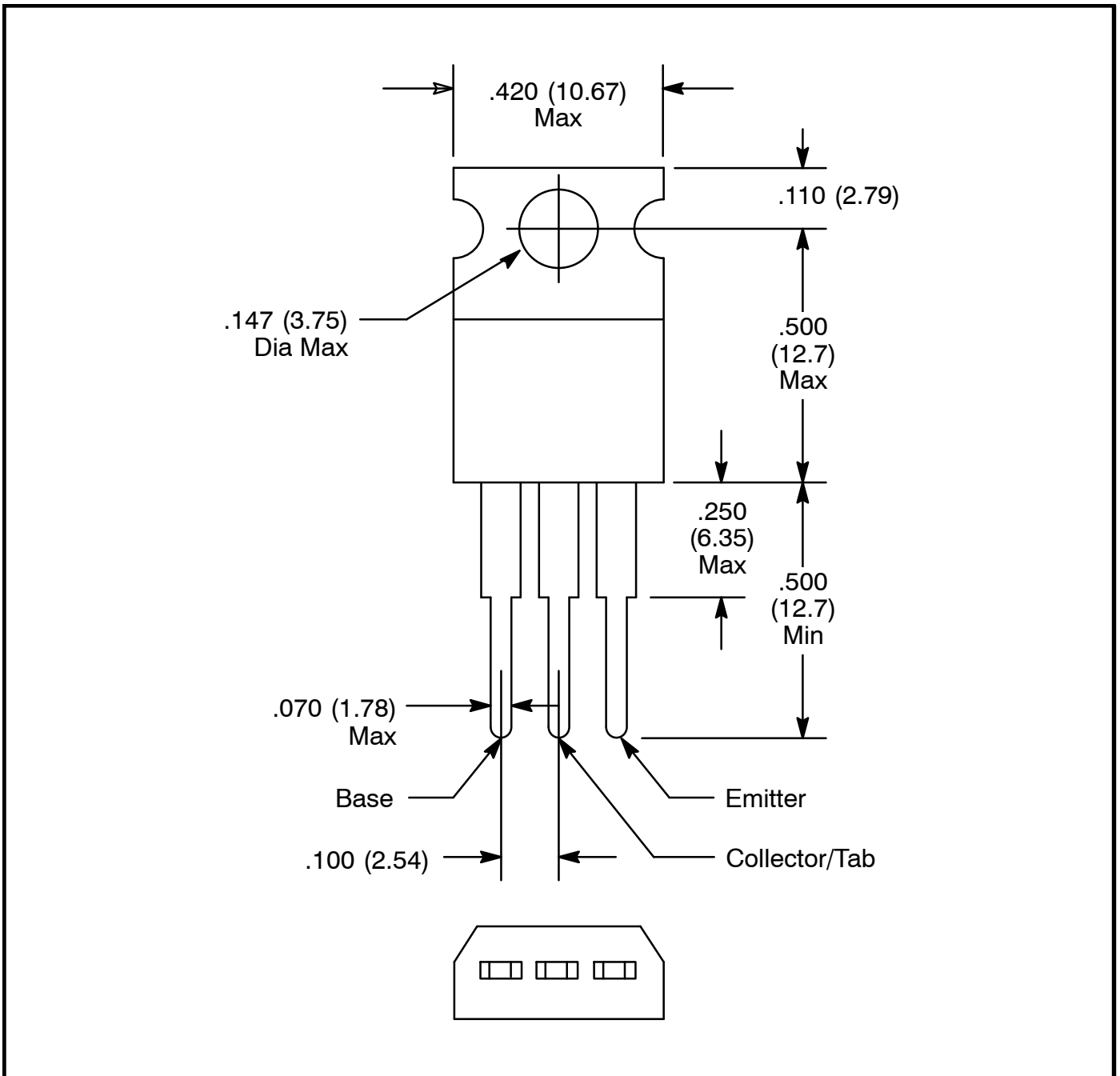
- 10 to 14 Watt Output Power Class AB Amplifier Applications in the HF band

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

Collector–Base Voltage, V_{CBO}	60V
Collector–Emitter Voltage ($R_{BE} = \infty$), V_{CEO}	25V
Emitter–Base Voltage, V_{EBO}	5V
Collector Current, I_C	6A
Collector Dissipation, P_C	
$T_A = 25^\circ C$	1.7W
$T_C = 25^\circ C$	20W
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	-55° to +150°C
Thermal Resistance, Junction–to–Ambient, R_{thJA}	73.5°C/W
Thermal Resistance, Junction–to–Case, R_{thJC}	6.25°C/W

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 5\text{mA}, I_C = 0$	5	-	-	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1\text{mA}, I_E = 0$	60	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10\text{mA}, R_{BE} = \infty$	25	-	-	V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 30\text{V}, I_E = 0$	-	-	0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4\text{V}, I_C = 0$	-	-	0.1	mA
DC Forward Current Gain	h_{FE}	$V_{CE} = 12\text{V}, I_C = 10\text{mA}$	90	-	180	-
Output Power	P_O	$V_{CC} = 12\text{V}, P_{in} = 1\text{W}, f = 27\text{MHz}$	16	18	-	W
Collector Efficiency	h_C	$V_{CC} = 12\text{V}, P_{in} = 1\text{W}, f = 27\text{MHz}$	60	70	-	%



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bipolar Transistors - BJT category](#):

Click to view products by [NTE manufacturer](#):

Other Similar products are found below :

[619691C](#) [MCH4017-TL-H](#) [MJ15024/WS](#) [MJ15025/WS](#) [BC546/116](#) [BC556/FSC](#) [BC557/116](#) [BSW67A](#) [HN7G01FU-A\(T5L,F,T](#)
[NJVMJD148T4G](#) [NSVMMBT6520LT1G](#) [NTE187A](#) [NTE195A](#) [NTE2302](#) [NTE2330](#) [NTE2353](#) [NTE316](#) [IMX9T110](#) [NTE63](#) [NTE65](#)
[C4460](#) [SBC846BLT3G](#) [2SA1419T-TD-H](#) [2SA1721-O\(TE85L,F\)](#) [2SA1727TLP](#) [2SA2126-E](#) [2SB1202T-TL-E](#) [2SB1204S-TL-E](#) [2SC5488A-](#)
[TL-H](#) [2SD2150T100R](#) [SP000011176](#) [FMC5AT148](#) [2N2369ADCSM](#) [2SB1202S-TL-E](#) [2SC2412KT146S](#) [2SC4618TLN](#) [2SC5490A-TL-H](#)
[2SD1816S-TL-E](#) [2SD1816T-TL-E](#) [CMXT2207 TR](#) [CPH6501-TL-E](#) [MCH4021-TL-E](#) [BC557B](#) [TTC012\(Q\)](#) [BULD128DT4](#) [JANTX2N3810](#)
[Jantx2N5416](#) [US6T6TR](#) [KSF350](#) [068071B](#)