



NTE2662 Silicon NPN Transistor High Frequency, Low Noise RF

Description:

The NTE2662 is a silicon NPN type transistor in a miniature surface mount package designed for oscillator applications up to 3GHz. This device features low voltage operation, low phase noise, and high immunity to pushing effects.

Features:

- New Miniature Surface Mount Package
 - Small Transistor Footprint
 - 1.0mm x 0.5mm x 0.5mm
 - Low Profile / 0.50mm Package Height
 - Flat Lead Style for Better RF Performance
- Ideal for ≤ 3GHz Oscillators
- Low Phase Noise
- Low Pushing Factor

Absolute Maximum Ratings: $(T_A = +25^{\circ}C, \text{ Note 1 unless otherwise specified})$
Collector-to-Base Voltage, V _{CBO} 9V
Collector-to-Emitter Voltage, V _{CEO}
Emitter-to-Base Voltage, V _{EBO}
Collector Current, I _C
Total Power Dissipation (Note 2), P _T 140mW
Operating Junction Temperature, T _J +150°C
Storage Temperature Range, T _{stg} 65° to +150°C
Note 1. Operation in excess of any one of these parameters may result in permanent damage. Note 2. With device mounted on 1.8cm ² x 1.0mm glass epoxy board.

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

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit
Gain Bandwidth	f _T	V _{CE} = 1V, f = 2GHz	$I_C = 5mA$	3.0	4.5	_	GHz
			$I_C = 15mA$	5.0	6.5	_	GHz
Insertion Power Gain	S _{21E}	$V_{CE} = 1V$, $f = 2GHz$,	$I_C = 5mA$	3.0	4.0	_	dB
		Note 3	$I_C = 15mA$	4.5	5.5	_	dB

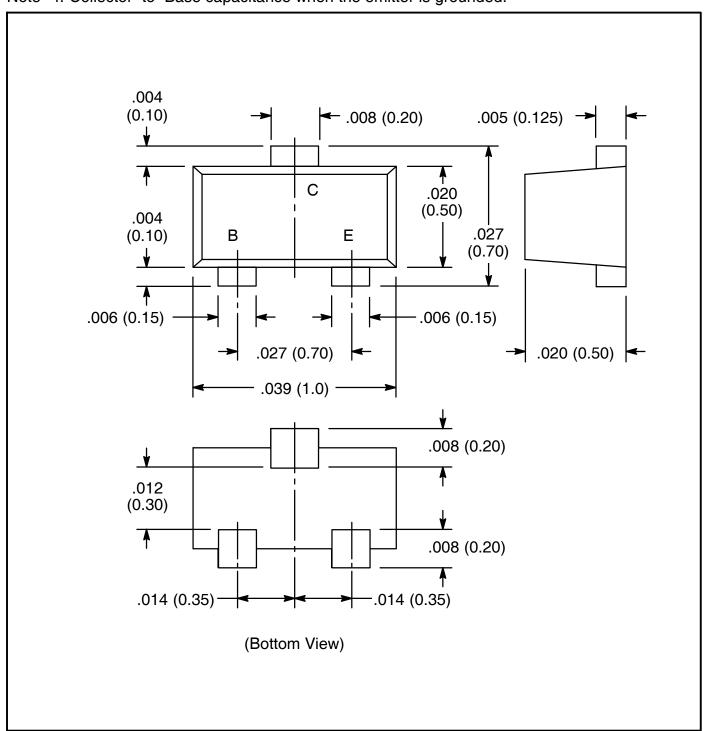
Note 3. Pulsed measurement, Pulse Width $\leq 350\mu s$, Duty Cycle $\leq 2\%$.

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

Parameter	Symbol	Test Conditions		Тур	Max	Unit
Noise Figure	NF	$V_{CE} = 1V$, $I_C = 10$ mA, $f = 2$ GHz	_	1.9	2.5	dB
Reverse Transfer Capacitance	C _{RE}	$V_{CB} = 0.5V$, $I_E = 0mA$, $f = MHz$, Note 4	_	0.6	0.8	pF
Collector Cutoff Current	I _{CBO}	$V_{CB} = 5V, I_{E} = 0$	-	_	600	nA
Emitter Cutoff Current	I _{EBO}	$V_{EB} = 1, I_C = 0$	-	_	600	nA
DC Current Gain	h _{FE}	$V_{CE} = 1V$, $I_C = 5mA$, Note 3	100	120	145	

Note 3. Pulsed measurement, Pulse Width \leq 350 μ s, Duty Cycle \leq 2%.

Note 4. Collector-to-Base capacitance when the emitter is grounded.



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 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