

NTE2361 (NPN) & NTE2362 (PNP) Silicon Complementary Transistors High Speed Switch

Description:

The NTE2361 (NPN) and NTE2362 (PNP) complimentary silicon transistors are designed for general—purpose amplifier and high speed switching applications. The high gain of these devices makes it possible for them to be driven directly from integrated circuits.

Features:

Very Small–Sized Package

High Breakdown Voltage: V_{CEO} = 50V

Absolute Maximum Ratings: (T _A = +25°C unless otherwise specified)
Collector–Base Voltage, V _{CBO} 60V
Collector–Emitter Voltage, V _{CEO}
Emitter–Base Voltage, V _{EBO} 5V
Collector Current, I _C Continuous
Collector Dissipation, P _C
Operating Junction Temperature Range, T _J
Storage Temperature Range, T _{stg} –55° to +150°C
Note 1. For PNP device (NTE2362), voltage and current values are negative.

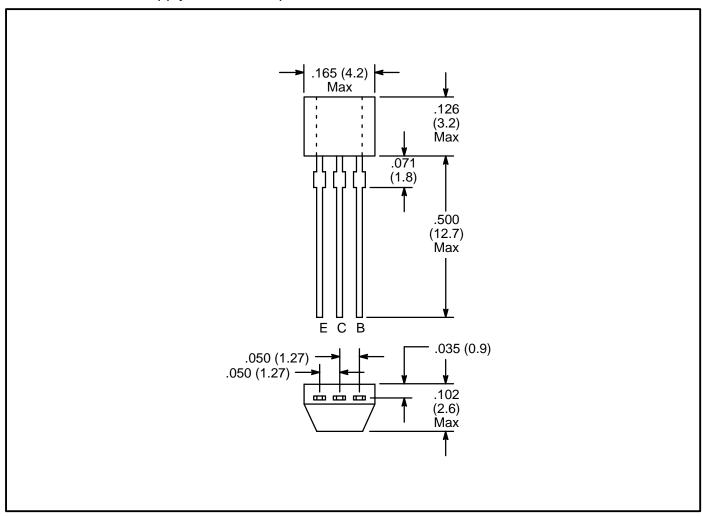
<u>Electrical Characteristics</u>: (T_C = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit
Collector Cutoff Current	I _{CBO}	$V_{CB} = 40 Vdc$, $I_E = 0$		_	_	0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{BE} = 4Vdc		_	_	0.1	μΑ
DC Current Gain	h _{FE}	$V_{CE} = 5V$, $I_{C} = 10mA$		200	_	400	
Gain Bandwidth Product	f _T	V _{CE} = 10V, I _C = 50mA	NTE2361	_	200	_	MHz
			NTE2362	_	300	_	MHz

<u>Electrical Characteristics (Cont'd)</u>: (T_C = 25°C unless otherwise specified)

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit
Output Capacitance	C_{ob} $V_{CB} = 10 Vdc,$ $f = 1 MHz$		NTE2361	_	5.6	_	pF
		I = IMHZ	NTE2362	_	3.7	_	pF
Collector–Emitter Saturation Voltage	V _{CE(sat)}	I _C = 100mA, I _B = 10mA	NTE2361	_	0.15	0.4	V
			NTE2362	_	0.1	0.3	V
Base–Emitter Saturation Voltage	V _{BE(sat)}	I _C = 100mA, I _B = 10mA		_	0.8	1.2	V
Collector-Base Breakdown Voltage	V _{(BR)CBO}	$I_C = 10\mu A, I_E = 0$		60	_	_	V
Collector–Emitter Breakdown Voltage	V _{(BR)CEO}	$I_C = 100\mu A, R_{BE} = \infty$		50	_	_	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu A, I_C = \infty$		5	_	_	V
Rise Time	t _{on}	$V_{CC} = 20V,$ $I_{C} = 100 \text{mA},$		_	70	_	ns
Storage Time	t _{stg}	$I_{B1} = 10mA$,		_	400	_	ns
Fall Time	t _f	I _{B2} = 100mA	NTE2361	_	50	_	ns
			NTE2362	_	70	_	ns

- Note 1. For PNP device (NTE2362), voltage and current values are negative.
- Note 2. Conditions apply to both except where noted.



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