



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



NTE2547 (NPN) & NTE2548 (PNP) Silicon Complementary Transistors Darlington Driver TO220 Full Pack

Features:

- High DC Current Gain
- High Current Capacity and Wide ASO
- Low Saturation Voltage

Applications:

- Motor Drivers
- Printer Hammer Drivers
- Relay Drivers
- Voltage Regulator Control

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

Collector to Base Voltage, V_{CBO}	110V
Collector to Emitter Voltage, V_{CEO}	100V
Emitter to Base Voltage, V_{EBO}	6V
Collector Current, I_C	
Continuous	8A
Peak	12A
Collector Dissipation, P_C	
$T_A = +25^{\circ}\text{C}$	2.0W
$T_C = +25^{\circ}\text{C}$	20W
Operating Junction Temperature, T_J	$+150^{\circ}\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^{\circ}\text{C}$

Electrical Characteristics: ($T_A = +25^{\circ}\text{C}$, Note 1 unless otherwise specified)

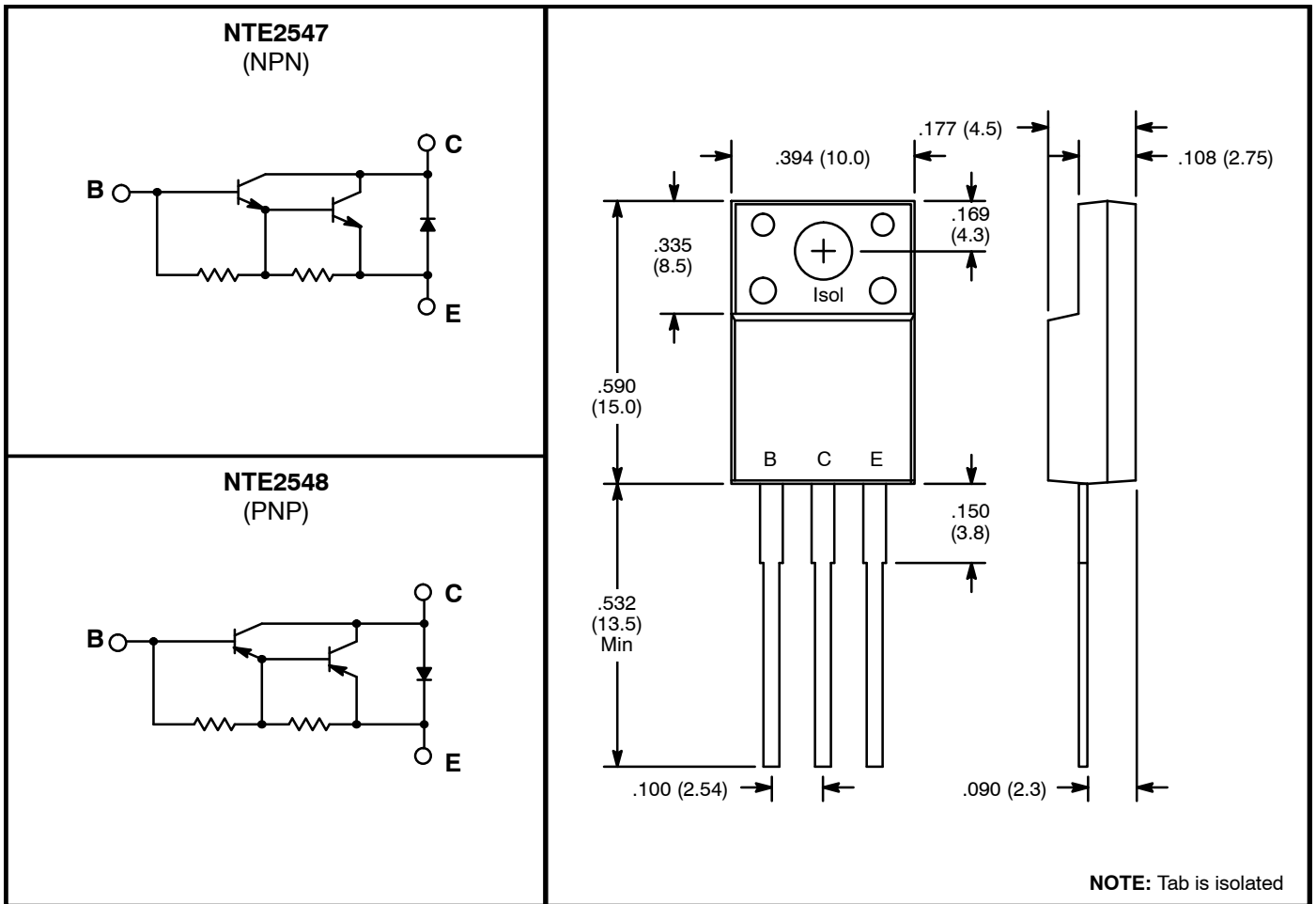
Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 80\text{V}, I_E = 0$	-	-	0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$	-	-	3.0	mA
DC Current Gain	h_{FE}	$V_{CE} = 3\text{V}, I_C = 4\text{A}$	1500	4000		
Transition Frequency	f_T	$V_{CE} = 5\text{V}, I_C = 4\text{A}$	-	20	-	MHz

Note 1. For NTE2548 (PNP), the polarity is reversed.

Electrical Characteristics (Cont'd): ($T_A = +25^\circ\text{C}$, Note 1 unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-to-Emitter Saturation Voltage NTE2547	$V_{CE(sat)}$	$I_C = 4A, I_B = 8mA$	-	0.9	1.5	V
NTE2548			-	1.0	1.5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 4A, I_B = 8mA$	-	-	2.0	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 5mA, I_E = 0$	110	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 50mA, R_{BE} = \infty$	100	-	-	V
Turn-On Time NTE2547	t_{on}	$I_C = 500I_{B1} = -500I_{B2} = 4A, V_{CC} = 50V, R_L = 12.5^\circ$	-	0.6	-	∞
NTE2548			-	0.7	-	∞
Storage Time NTE2547	t_{stg}		-	4.8	-	∞
NTE2548			-	1.4	-	∞
Fall Time NTE2547	t_f		-	1.6	-	∞
NTE2548			-	1.5	-	∞

Note 1. For NTE2548 (PNP), the polarity is reversed.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Darlington Transistors](#) category:

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

Other Similar products are found below :

[281287X](#) [SMMBT6427LT1G](#) [2N7371](#) [BDV64B](#) [JANTXV2N6287](#) [028710A](#) [SMMBTA64LT1G](#) [2N6350](#) [2SB1214-TL-E](#)
[SMMBTA14LT1G](#) [SBSP52T1G](#) [NJVMJD117T4G](#) [Jantx2N6058](#) [2N6353](#) [LB1205-L-E](#) [500-00005](#) [2N6053](#) [NJVMJD112G](#) [Jan2N6350](#)
[Jantx2N6352](#) [Jantx2N6350](#) [BULN2803LVS](#) [ULN2001N](#) [2SB1383](#) [2SB1560](#) [2SB852KT146B](#) [TIP112TU](#) [TIP122TU](#) [BCV27](#) [MMBTA13-](#)
[TP](#) [MMBTA14-TP](#) [MMSTA28T146](#) [BSP50H6327XTSA1](#) [KSH122TF](#) [NTE2557](#) [NJVNJD35N04T4G](#) [TIP115](#) [MPSA29-D26Z](#) [MJD127T4](#)
[FJB102TM](#) [BCV26E6327HTSA1](#) [BCV46E6327HTSA1](#) [BCV47E6327HTSA1](#) [BSP61H6327XTSA1](#) [BU941ZPFI](#) [2SB1316TL](#) [2SD1980TL](#)
[NTE2350](#) [NTE245](#) [NTE246](#)