



ELECTRONICS, INC.
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NTE2545 (NPN) & NTE2546 (PNP) Silicon Complementary Transistors Darlington, High Speed Driver

Features:

- High Speed Switching
- Wide ASO Range
- High Gain Bandwidth Product

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

Collector Base Voltage, V_{CBO}	70V
Collector Emitter Voltage, V_{CEO}	60V
Emitter Base Voltage, V_{EBO}	5V
Collector Current, I_C	
Continuous	5A
Peak	8A
Collector Power Dissipation, P_C	
$T_A = +25^\circ\text{C}$	1.75W
$T_C = +25^\circ\text{C}$	30W
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	-55° to +150°C

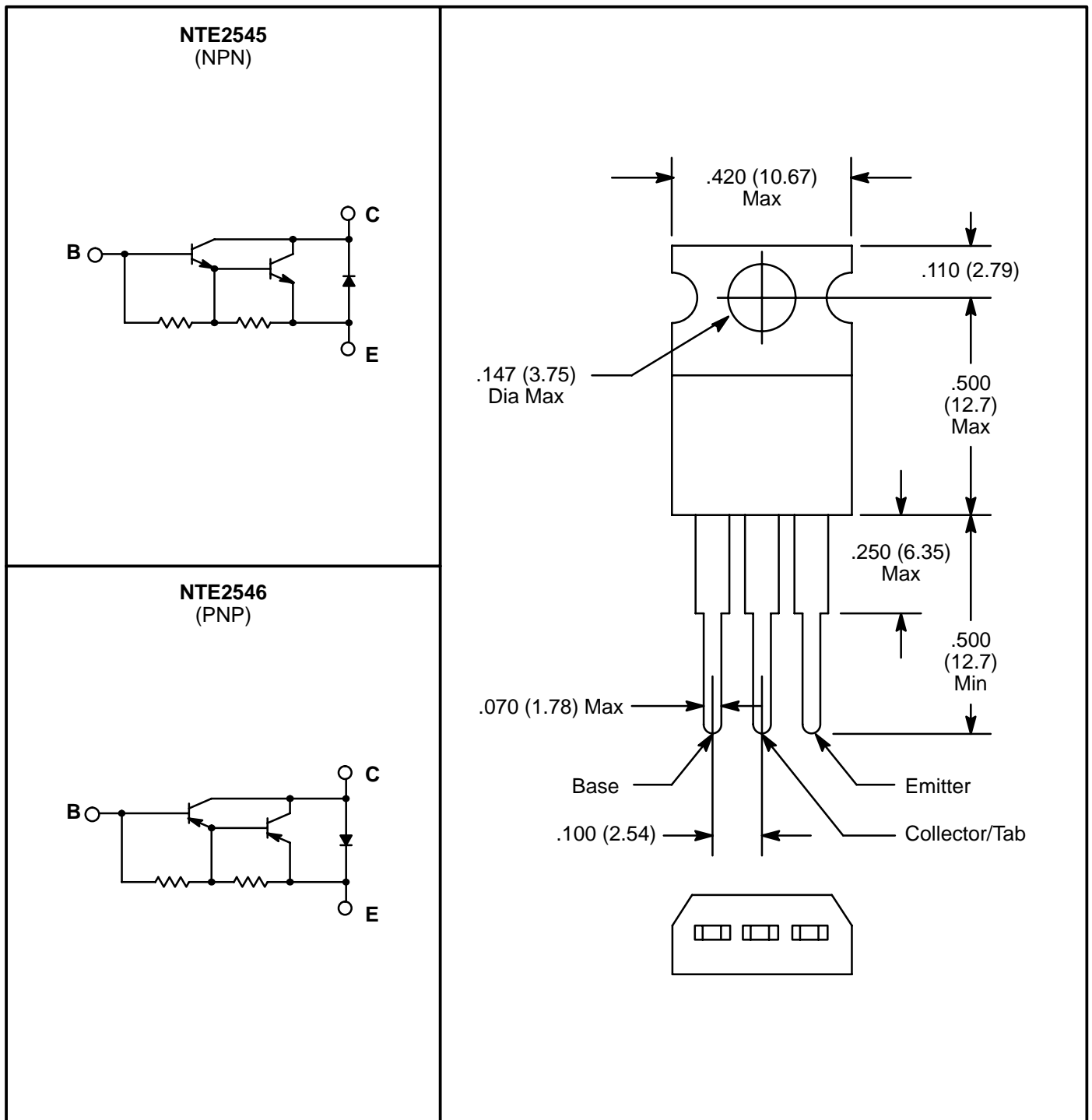
Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 40V, I_E = 0$	-	-	0.1	mA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5V, I_C = 0$	-	-	3.0	mA
DC Current Gain	h_{FE}	$V_{CE} = 2V, I_C = 2.5A$	2000	5000	-	
Gain-Bandwidth Product	f_T	$V_{CE} = 5V, I_C = 2.5A$	-	200	-	MHz
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2.5A, I_B = 5mA$	-	0.9	-	V
NTE2545			-	1.0	1.5	V
NTE2546						
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 2.5A, I_B = 5mA$	-	-	2.0	V
Collector Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 5mA, I_E = 0$	70	-	-	V
Collector Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 50mA, R_{BE} = \infty$	60	-	-	V

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Time	t_{on}	$V_{CC} = 20\text{V}, V_{BE} = -5\text{V},$ $500I_{B1} = -500I_{B2} = I_C = 2\text{A},$ Pulse Width = $50\mu\text{s},$ Duty Cycle $\leq 1\%$, Note 1	—	0.3	—	μs
Storage Time NTE2545	t_{stg}		—	1.2	—	μs
NTE2546			—	1.3	—	μs
Fall Time	t_f		—	0.2	—	μs

Note 1. For NTE2546, the polarity is reversed.



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