



ELECTRONICS, INC.
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NTE2551 (NPN) & NTE2552 (PNP) Silicon Complementary Transistors Darlington Driver, Switch TO-220 Full Pack

Features:

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

Applications:

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

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}	6V
Collector Current, I_C	
Continuous	10A
Peak	15A
Collector Power Dissipation, P_C	
$T_A = +25^\circ\text{C}$	2W
$T_C = +25^\circ\text{C}$	30W
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	-55° to +150°C

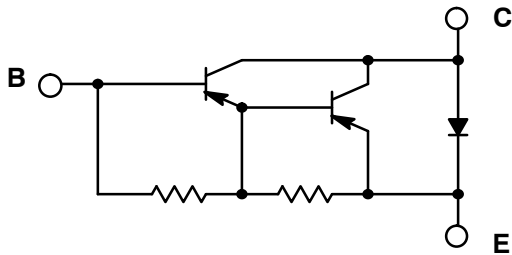
Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-Off Current	I_{CBO}	$V_{CB} = 40\text{V}, I_E = 0$	-	-	0.1	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$	-	-	3.0	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = 2\text{V}, I_C = 5\text{mA}$	2000	5000	-	
Gain-Bandwidth Product	f_T	$V_{CE} = 5\text{V}, I_C = 5\text{mA}$	-	20	-	MHz
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 5\text{A}, I_B = 10\text{mA}$	-	0.9	1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 5\text{A}, I_B = 10\text{mA}$	-	-	2.0	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 5\text{mA}, I_E = 0$	70	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 50\text{mA}, R_{BE} = \infty$	60	-	-	V

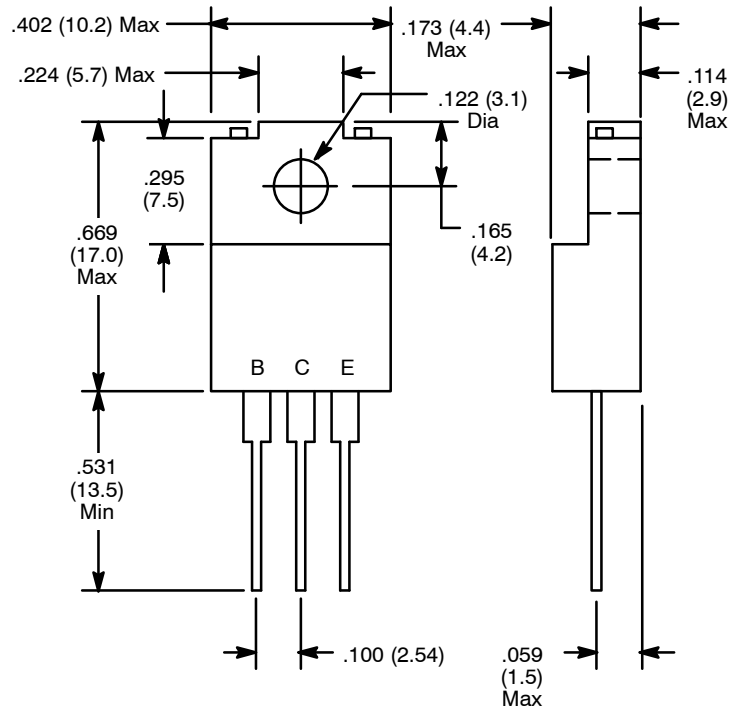
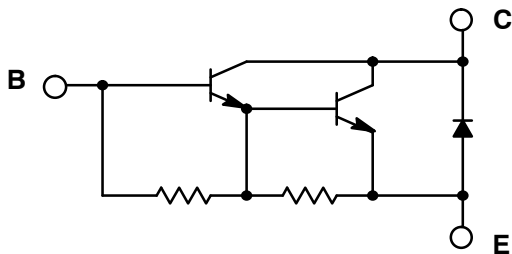
Electrical Characteristics (Cont'd): ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Switching Characteristics						
Turn-On Time NTE2551	t_{on}	$V_{CC} = 20\text{V}, I_C = 5\text{A},$ $I_{B1} = -I_{B2} = 500\text{mA},$ Pulse Width = $50\mu\text{s}$ Duty Cycle $\leq 1\%$	-	0.6	-	μs
NTE2552			-	0.5	-	μs
Storage Time NTE2551	t_{stg}		-	3.0	-	μs
NTE2552			-	1.5	-	μs
Fall Time NTE2551	t_f		-	1.8	-	μs
NTE2552			-	1.7	-	μs

NTE2551
(NPN)



NTE2552
(PNP)



NOTE: Tab is isolated

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