



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

NTE2543 Silicon NPN Transistor Darlington, Motor/Relay Driver TO-220 Full Pack

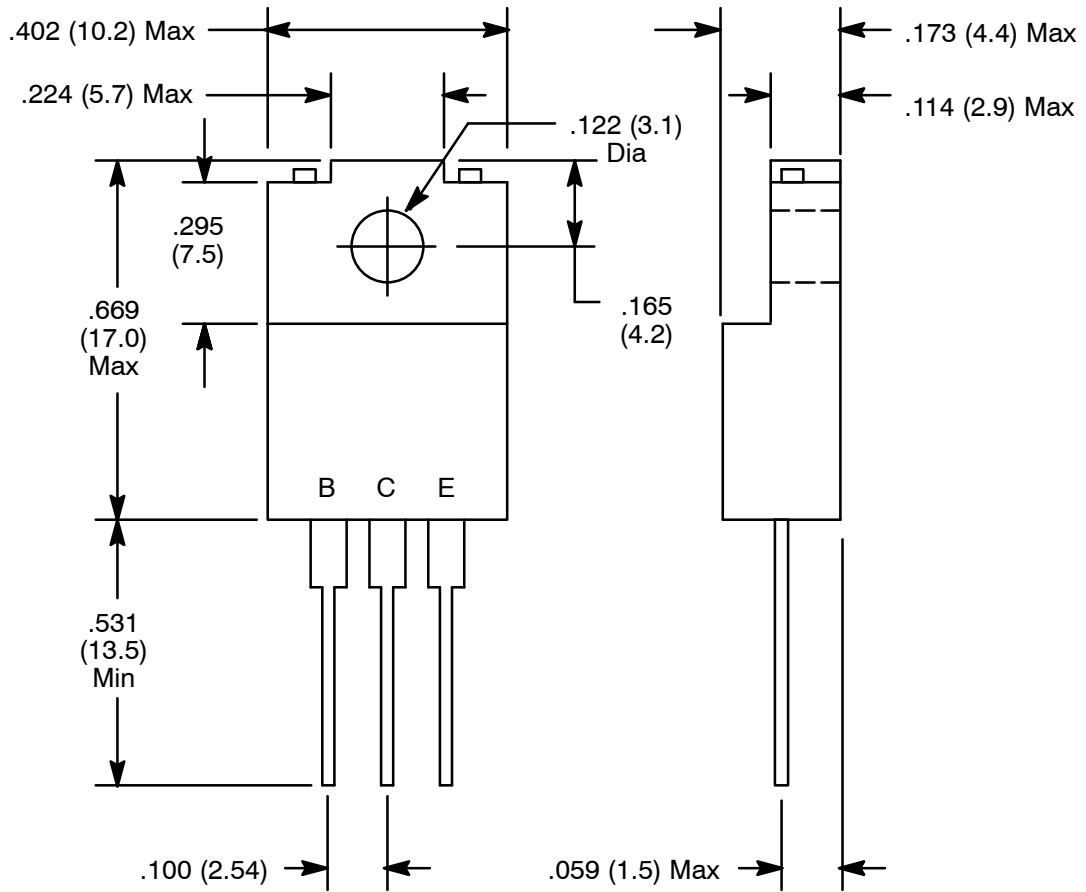
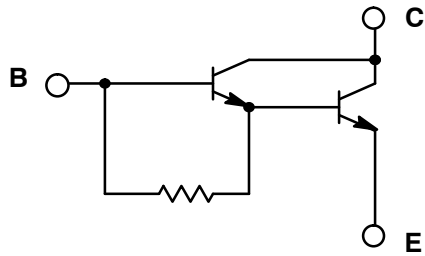
Absolute Maximum Ratings:

Collector Base Voltage, V_{CBO} 300V
 Collector Emitter Voltage, V_{CEO} 250V
 Emitter Base Voltage, V_{EBO} 20V
 Collector Current, I_C 6A
 Base Current, I_B 1A
 Collector Power Dissipation ($T_{FL} = +25^{\circ}C$), P_C 40W
 Operating Junction Temperature, T_J $+150^{\circ}C$
 Storage Temperature Range, T_{stg} -55° to $+150^{\circ}C$

Electrical Characteristics:

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 300V, I_E = 0$	-	-	100	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 20V, I_C = 0$	-	-	10	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 25mA, R_{BE} = \infty$	250	-	-	V
DC Current Gain	h_{FE}	$V_{CE} = 2V, I_C = 2A$	2000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2A, I_B = 2mA$	-	-	1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 2A, I_B = 2mA$	-	-	2.0	V

Schematic Diagram



NOTE: Tab is isolated

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