

NTE2556

Silicon NPN Transistor

Darlington, Motor/Relay Driver

Features:

- High DC Current Gain
- High Current Capacity
- Wide ASO Range

Applications:

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

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

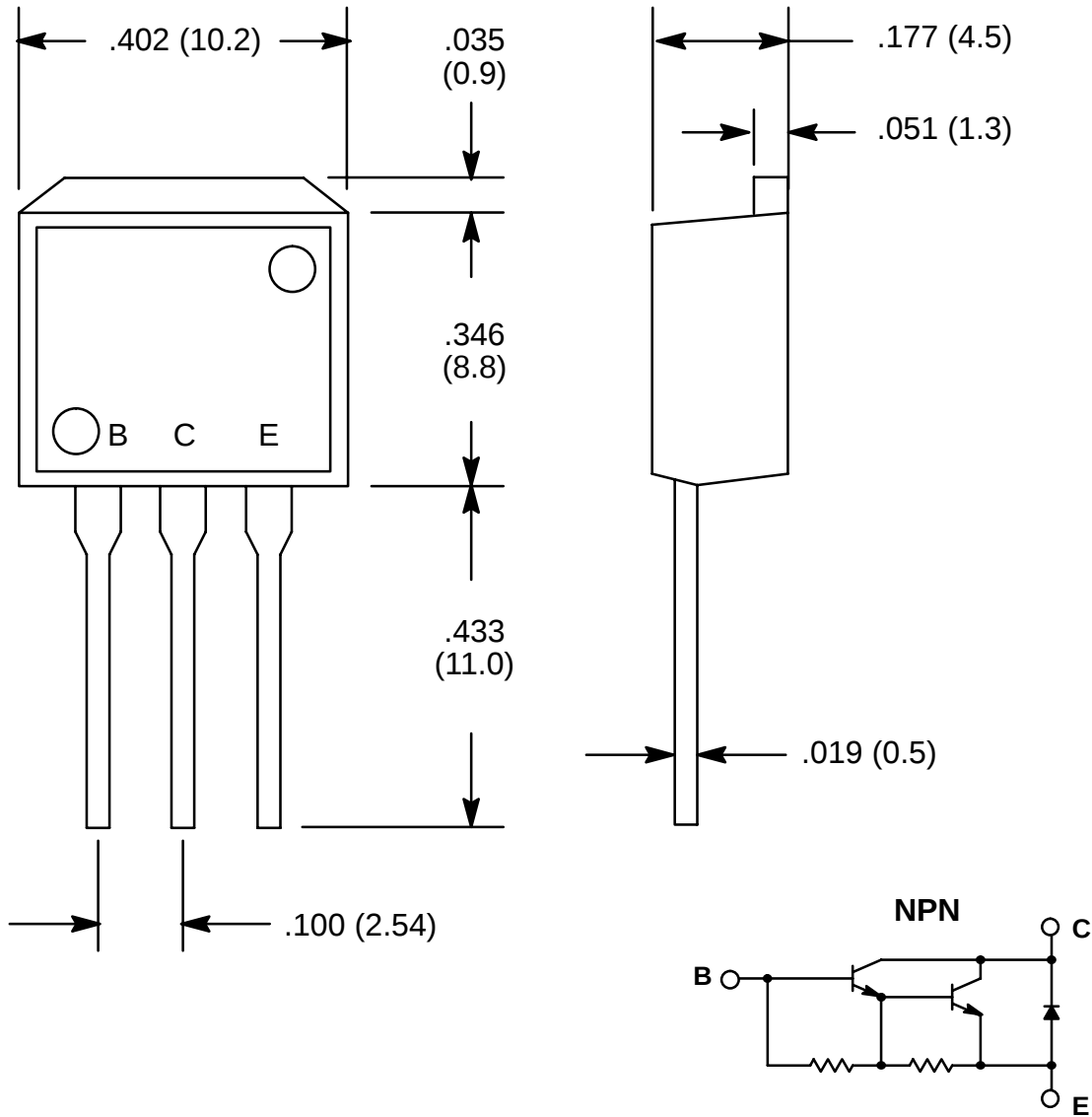
Collector Base Voltage, V_{CBO}	110V
Collector Emitter Voltage, V_{CEO}	100V
Emitter Base Voltage, V_{EBO}	6V
Collector Current, I_C	
Continuous	8A
Peak	12A
Collector Power Dissipation, P_C	
$T_A = +25^\circ\text{C}$	1.65W
$T_C = +25^\circ\text{C}$	40W
Operating Junction Temperature, T_J	$+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ 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	—	
Gain-Bandwidth Product	f_T	$V_{CE} = 5\text{V}, I_C = 4\text{A}$	—	20	—	MHz
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 4\text{A}, I_B = 8\text{mA}$	—	0.9	1.5	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 4\text{A}, I_B = 8\text{mA}$	—	—	2.0	V

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 5\text{mA}, I_E = 0$	110	—	—	V
Collector Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 50\text{mA}, R_{BE} = \infty$	100	—	—	V
Turn-On Time	t_{on}	$V_{CC} = 50\text{V}, V_{BE} = -5\text{V},$ $500I_{B1} = -500I_{B2} = I_C = 4\text{A},$ Pulse Width = $50\mu\text{s},$ Duty Cycle $\leq 1\%$	—	0.6	—	μs
Storage Time	t_{stg}		—	4.8	—	μs
Fall Time	t_f		—	1.6	—	μs



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