

NTE2541 (NPN) & NTE2542 (PNP) Silicon Complementary Transistors Darlington, Motor/Relay Driver

Absolute Maximum Ratings:

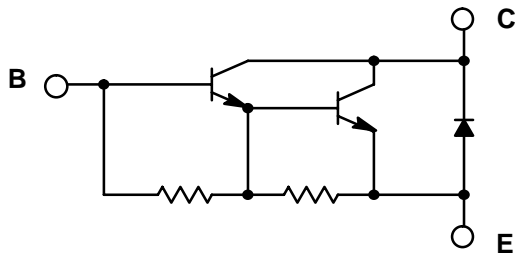
Collector Base Voltage, V_{CBO}	120V
Collector Emitter Voltage, V_{CEO}	120V
Emitter Base Voltage, V_{EBO}	6V
Collector Current, I_C	
Continuous	25A
Pulse	40A
Continuous Base Current, I_B	2A
Collector Power Dissipation ($T_{FL} = +25^{\circ}C$), P_C	120W
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	-55° to +150°C

Electrical Characteristics: (Note 1)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 120V, I_E = 0$	-	-	10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 6V, I_C = 0$	10	-	-	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 25mA, R_{BE} = \infty$	120	-	-	V
DC Current Gain	h_{FE}	$V_{CE} = 4V, I_C = 12A$	2000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 12A, I_B = 24mA$	-	-	1.8	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 12A, I_B = 24mA$	-	-	2.5	V

Note 1. For NTE2542, the polarity is reversed.

NTE2541
(NPN)



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(PNP)

