



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

NTE2550 Silicon NPN Transistor Darlington Driver, Switch TO-220 Full Pack

Absolute Maximum Ratings:

Collector-Base Voltage, V_{CBO}	500V
Collector-Emitter Voltage, V_{CEO}	400V
Emitter-Base Voltage, V_{EBO}	12V
Collector Current, I_C	
Continuous	10A
Peak	15A
Base Current, I_B	
Continuous	0.5A
Peak	1.0A
Collector Power Dissipation ($T_C = +25^\circ\text{C}$), P_C	50W
Dielectric Strength (Terminal to Case, AC1 minute), V_{dis}	2kV
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	-55° to +150°C
Maximum Thermal Resistance, Junction-to-Case, R_{thJC}	2.5°C/W
Mounting Torque (Note 1), TOR	5kg • cm

Note 1. Recommended torque: 3kg • cm.

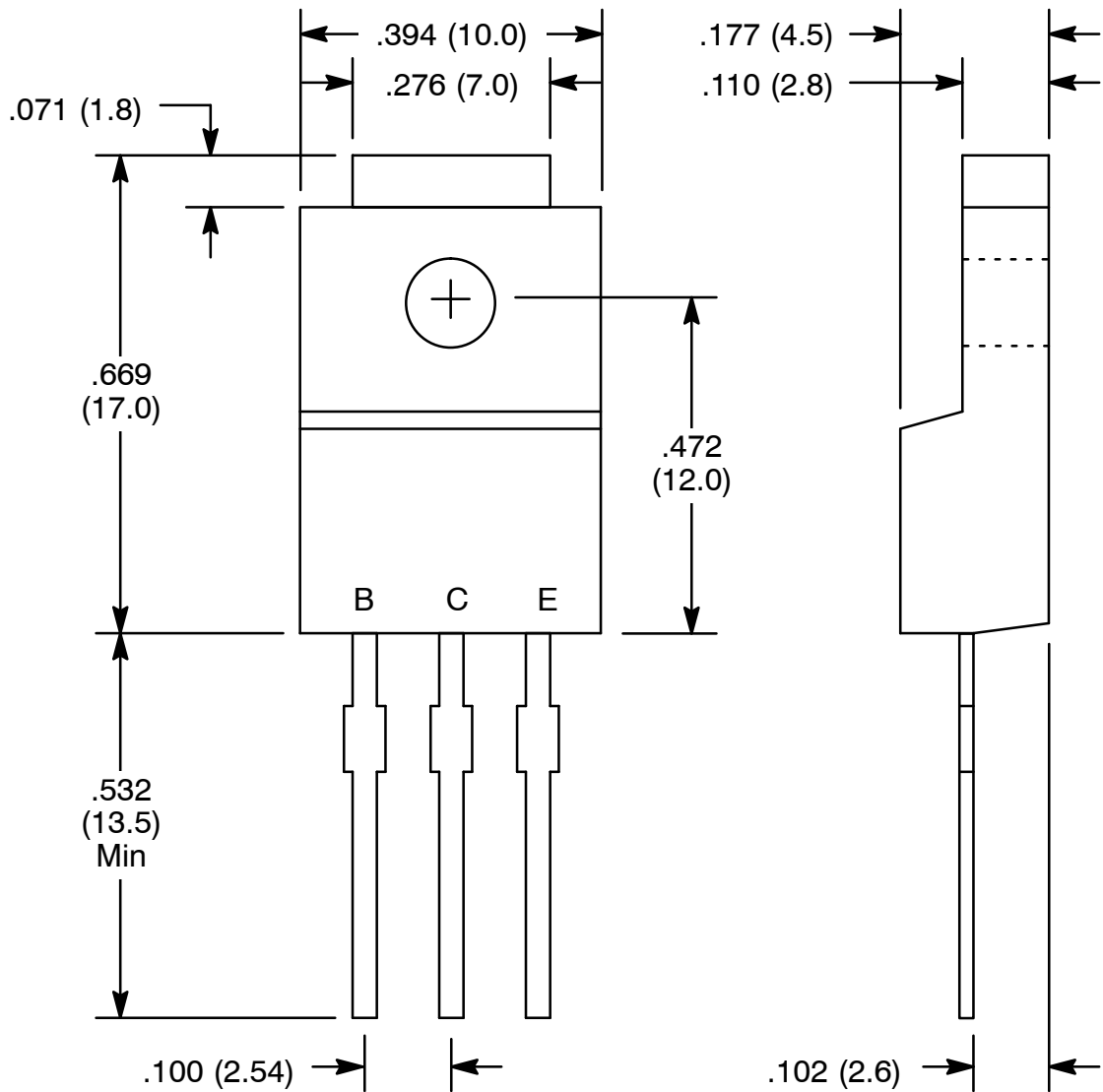
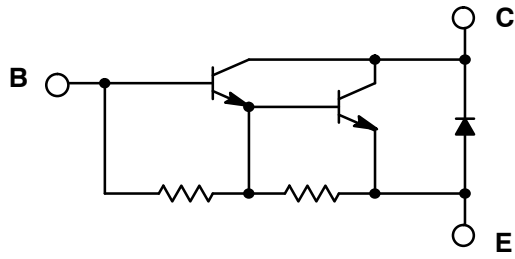
Electrical Characteristics: ($T_C = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Emitter Sustaining Voltage	V_{CEO}	V_{CE} (Clamp)	400	-	-	V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = 500V$	-	-	0.1	mA
	I_{CEO}	$V_{CE} = 400V$	-	-	0.1	mA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 12V$	-	-	100	mA
DC Current Gain	h_{FE}	$V_{CE} = 2V, I_C = 7A$	150	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 7A, I_B = 70mA$	-	-	1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 7A, I_B = 70mA$	-	-	2.0	V
Gain-Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 1A$	-	10	-	MHz
Turn-On Time	t_{on}	$I_{B1} = I_{B2} = 70mA,$ $I_C = 7A, R_L = 10\Omega,$ $V_{BB2} = 4V$	-	-	2.0	μs
Storage Time	t_s		-	-	15	μs
Fall Time	t_f		-	-	15	μs

Rev. 9-17



Schematic Diagram



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Darlington Transistors](#) category:

Click to view products by [NTE manufacturer](#):

Other Similar products are found below :

[281287X](#) [SMMBT6427LT1G](#) [2N7371](#) [BDV64B](#) [JANTXV2N6287](#) [028710A](#) [SMMBTA64LT1G](#) [2N6350](#) [2SB1214-TL-E](#)
[SMMBTA14LT1G](#) [SBSP52T1G](#) [NJVMJD117T4G](#) [Jantx2N6058](#) [2N6353](#) [LB1205-L-E](#) [500-00005](#) [2N6053](#) [NJVMJD112G](#) [Jan2N6350](#)
[Jantx2N6352](#) [Jantx2N6350](#) [BULN2803LVS](#) [ULN2001N](#) [2SB1383](#) [2SB1560](#) [2SB852KT146B](#) [TIP112TU](#) [TIP122TU](#) [BCV27](#) [MMBTA13-](#)
[TP](#) [MMBTA14-TP](#) [MMSTA28T146](#) [BSP50H6327XTSA1](#) [KSH122TF](#) [NTE2557](#) [NJVNJD35N04T4G](#) [TIP115](#) [MPSA29-D26Z](#) [MJD127T4](#)
[FJB102TM](#) [BCV26E6327HTSA1](#) [BCV46E6327HTSA1](#) [BCV47E6327HTSA1](#) [BSP61H6327XTSA1](#) [BU941ZPFI](#) [2SB1316TL](#) [2SD1980TL](#)
[NTE2350](#) [NTE245](#) [NTE246](#)