



ELECTRONICS, INC.  
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## NTE2681 Silicon NPN Transistor High Speed Switch w/Internal Damper Diode TO3PMLH Type Package

**Features:**

- High Switching Speed
- High Breakdown Voltage:  $V_{CBO} = 1600V$
- High Reliability
- Built-in Damper Diode

**Applications:**

- Horizontal Deflection Output for Ultrahigh-Definition CRT Displays

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

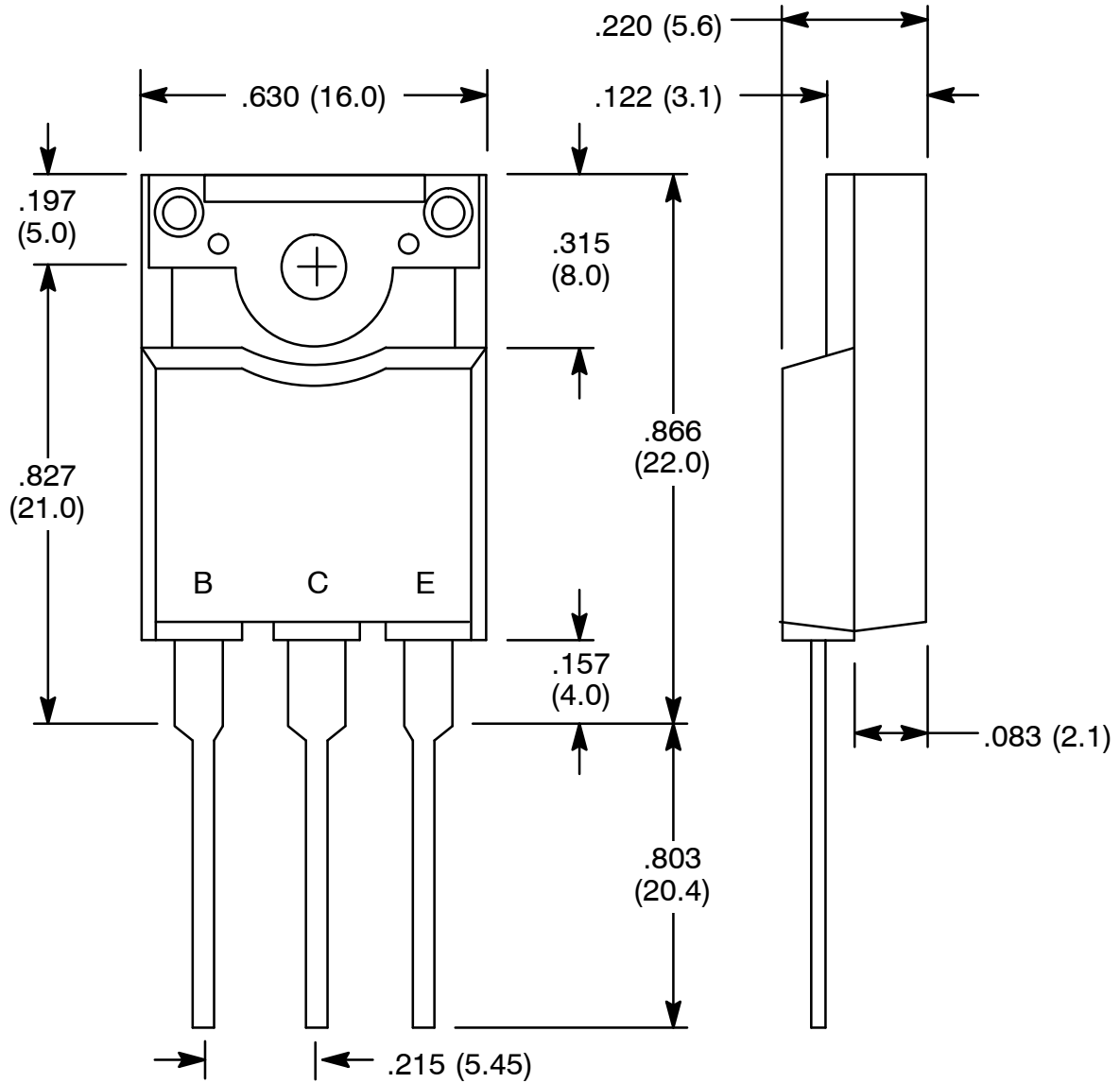
Collector-Base Voltage, $V_{CBO}$ .....	1600V
Collector-Emitter Voltage, $V_{CEO}$ .....	800V
Emitter-Base Voltage, $V_{EBO}$ .....	5V
Collector Current, $I_C$	
Continuous .....	15A
Peak .....	35A
Collector Power Dissipation, $P_C$ .....	3W
Collector Power Dissipation ( $T_C = +25^\circ C$ ), $P_C$ .....	85W
Operating Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 800V, I_E = 0$	-	-	10	$\mu A$
	$I_{CES}$	$V_{CE} = 1600V, R_{BE} = 0$	-	-	1.0	mA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 4V, I_C = 0$	40	-	200	mA
DC Current Gain	hFE	$V_{CE} = 5V$	$I_C = 1A$	8	-	-
			$I_C = 11A$	4	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 10A, I_B = 2.5A$	-	-	3.0	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 10A, I_B = 2.5A$	-	-	1.5	V

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Diode Forward Voltage	$V_F$	$I_{EC} = 12\text{A}$	-	-	2.2	V
Storage Time	$t_{stg}$	$I_C = 7\text{A}, I_{B1} = 900\text{mA}, I_{B2} = -3.5\text{A}$	-	-	3.0	$\mu\text{s}$
Fall Time	$t_f$		-	-	0.2	$\mu\text{s}$



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