



ELECTRONICS, INC.  
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## NTE2566 (NPN) & NTE2567 (PNP) Silicon Complementary Transistors High Current, High Speed Switch To-220 Full Pack

**Features:**

- Low Saturation Voltage
- Fast Switching Speed

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

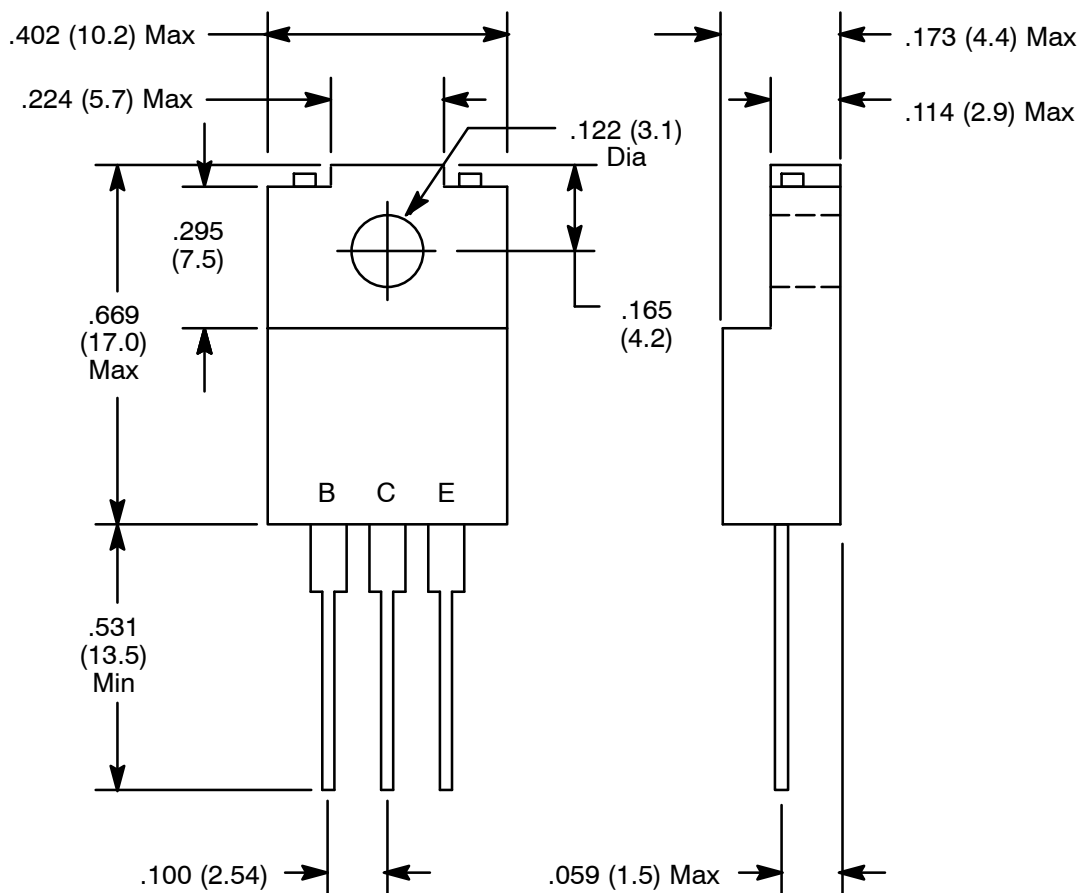
Collector-Base Voltage, $V_{CBO}$ .....	60V
Collector-Emitter Voltage, $V_{CEO}$ .....	50V
Emitter-Base Voltage, $V_{EBO}$ .....	6V
Collector Current, $I_C$	
Continuous .....	12A
Peak .....	15A
Collector Power Dissipation, $P_C$	
$T_C = +25^\circ\text{C}$ .....	30W
$T_A = +25^\circ\text{C}$ .....	2W
Operating Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 40V, I_E = 0$	-	-	0.1	mA
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 4V, I_C = 0$	-		0.1	mA
DC Current Gain	$h_{FE}$	$V_{CE} = 2V, I_C = 1A$	100	-	200	
		$V_{CE} = 2V, I_C = 5A$	30	-	-	
Gain Bandwidth Product	$f_T$	$V_{CE} = 5V, I_C = 1A$	-	10	-	MHz
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 6A, I_B = 0.6A$	-	-	0.4	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1mA, I_E = 0$	60	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1mA, R_{BE} = \infty$	50	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1mA, I_C = 0$	6	-	-	V

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Time NTE2566	$t_{on}$	$I_C = 5\text{A}, I_{B1} = 20\text{A},$ $I_{B2} = -20\text{A}, V_{CC} = 20\text{V},$ Pulse Width = $20\mu\text{s},$ Duty Cycle $\leq 1\%$	-	0.1	-	$\mu\text{s}$
NTE2567			-	0.2	-	$\mu\text{s}$
Storage Time NTE2566	$t_{stg}$		-	1.2	-	$\mu\text{s}$
NTE2567			-	0.4	-	$\mu\text{s}$
Collector Current Fall Time NTE2566	$t_f$		-	0.05	-	$\mu\text{s}$
NTE2567			-	0.1	-	$\mu\text{s}$



**NOTE:** Tab is isolated

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