



ELECTRONICS, INC.  
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## NTE2652 (PNP) & NTE2653 (NPN) Silicon Complementary Transistors High Current Driver

### Features:

- Low Saturation Voltage
- Large Current Capacity and Wide ASO

### Applications:

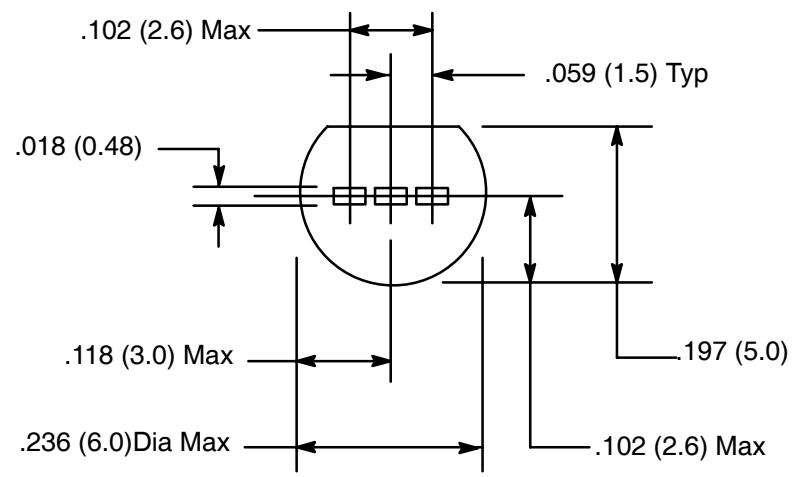
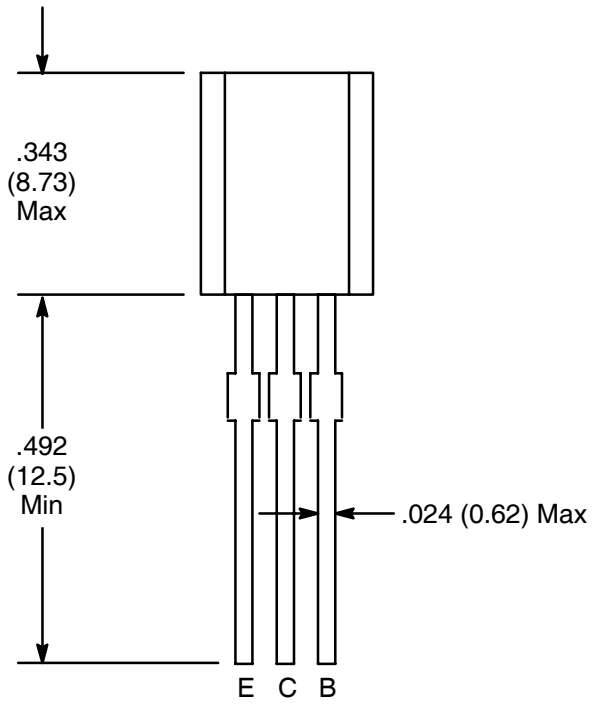
- Power Supplies
- Relay Drivers
- Lamp Drivers
- Electrical Equipment

### Absolute Maximum Ratings: ( $T_A = +25^\circ\text{C}$ 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 .....	3A
Pulsed .....	6A
Collector Dissipation, $P_C$ .....	1W
Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	$V_{CBO}$	$V_{CB} = 40V, I_E = 0$	-	-	1.0	$\mu\text{A}$
Emitter Cutoff Current	$V_{EBO}$	$V_{EB} = 4V, I_C = 0$	-	-	1.0	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CE} = 2V, I_C = 100\text{mA}$	140	-	560	
		$V_{CE} = 2V, I_C = 3A$	-	40	-	
Gain-Bandwidth Product	$f_T$	$V_{CE} = 10V, I_C = 50\text{mA}$	-	150	-	MHz
Output Capacitance	$C_{ob}$	$V_{CB} = 10V, f = 1\text{MHz}$	-	25	-	pF
Collector to Emitter Saturation Voltage NTE2652	$V_{CE(sat)}$	$I_C = 2A, I_B = 100\text{mA}$	-	0.19	0.5	V
			-	0.35	0.7	V
NTE2653						
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 2A, I_B = 100\text{mA}$	-	0.94	1.2	V
Collector to Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu\text{A}, I_E = 0$	60	-	-	V
Collector to Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1\text{mA}, R_{BE} = \infty$	50	-	-	V
Emitter to Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu\text{A}, I_C = 0$	6	-	-	V



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