



ELECTRONICS, INC.
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NTE2593 Silicon NPN Transistor High Voltage Amp/Switch TO-220 Full Pack

Features:

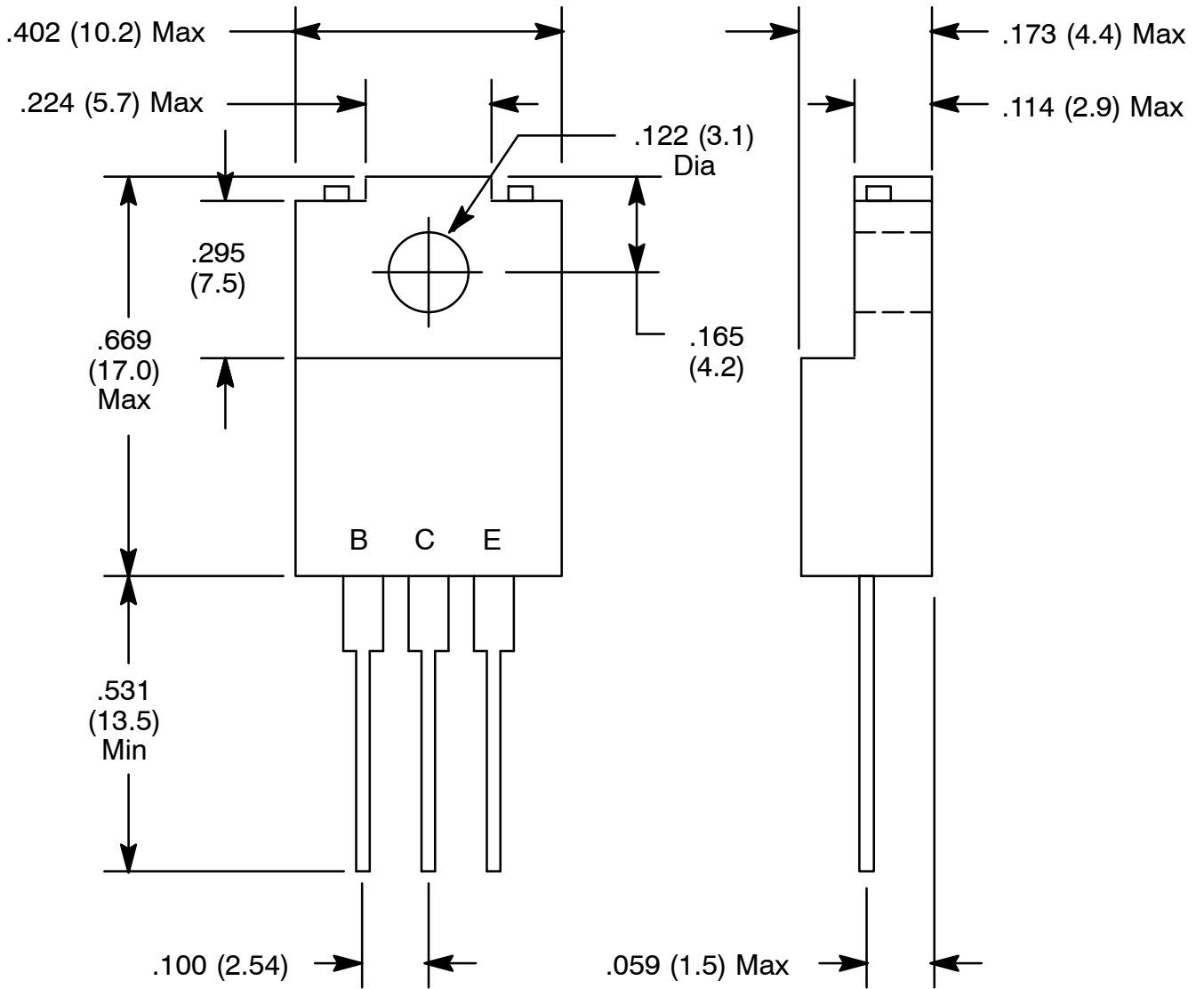
- High Breakdown Voltage: $V_{(BR)CEO} = 2100V$ Min
- Low Output Capacitance
- Wide ASO Range

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

Collector-Base Voltage, V_{CBO}	2100V
Collector-Emitter Voltage, V_{CEO}	2100V
Emitter-Base Voltage, V_{EBO}	5V
Collector Current, I_C	
Continuous	10mA
Peak	30mA
Collector Power Dissipation, P_C	2W
Operating Junction Temperature, T_J	+150°C
Storage Temperature Range, T_{stg}	-55° to +150°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 2100V, I_E = 0$	-	-	1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$	-		1	μA
DC Current Gain	h_{FE}	$V_{CE} = 5V, I_C = 500\mu A$	10	-	60	
Gain Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 500\mu A$	-	6	-	MHz
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 1mA, I_B = 200\mu A$	-	-	5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 1A, I_B = 200\mu A$	-	-	2	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu A, I_E = 0$	2100	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 100\mu A, R_{BE} = \infty$	2100	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu A, I_C = 0$	5	-	-	V
Output Capacitance	C_{ob}	$V_{CB} = 100V, f = 1MHz$	-	1.3	-	pF



NOTE: Tab is isolated