



ELECTRONICS, INC.  
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## NTE2693 (NPN) & NTE2694 (PNP) Silicon Complementary Transistors Darlington, General Purpose, Audio TO-220 Full Pack

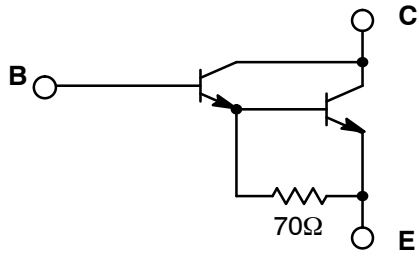
**Absolute Maximum Ratings:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Collector-Base Voltage, $V_{CBO}$ .....	110V
Collector-Emitter Voltage, $V_{CEO}$ .....	110V
Emitter-Base Voltage, $V_{EBO}$ .....	5V
Collector Current, $I_C$ .....	6A
Base Current, $I_B$ .....	1A
Collector Power Dissipation ( $T_C = +25^\circ\text{C}$ ), $P_D$ .....	30W
Operating Junction Temperature, $T_J$ .....	+150°C
Storage Temperature Range, $T_{stg}$ .....	-55° to +150°C

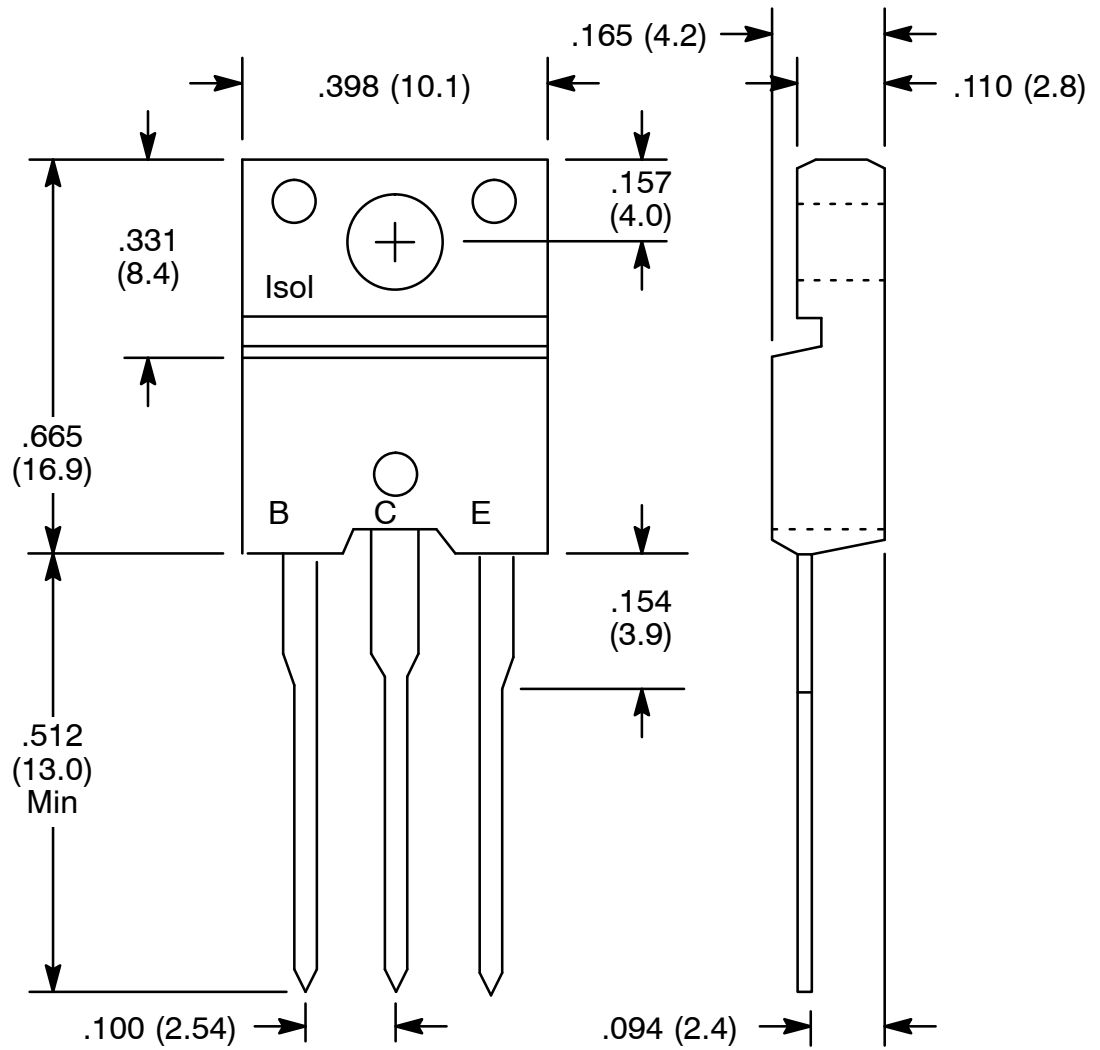
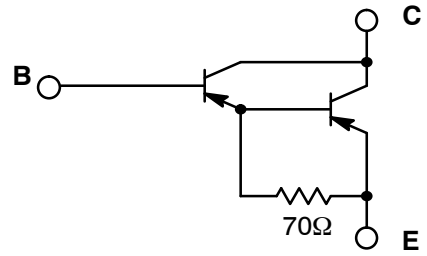
**Electrical Characteristics:** ( $T_A = +25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = 110V$	-	-	100	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = 5V$	-	-	100	$\mu\text{A}$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 30\text{mA}$	110	-	-	V
DC Current Gain	$h_{FE}$	$V_{CE} = 4V, I_C = 5A$	5000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 5A, I_B = 5\text{mA}$	-	-	2.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 5A, I_E = 5\text{mA}$	-	-	3.0	V
Current Gain-Bandwidth Product	$f_T$	$V_{CE} = 12V, I_E = -0.5A$	-	60	-	MHz
Capacitance	$C_{OB}$	$V_{CB} = 10V, f = 1\text{MHz}$	-	55	-	pF

NTE2693



NTE2694



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