NTE2649 (NPN) & NTE2650 (PNP)
Silicon Complementary Transistors
Darlington

Absolute Maximum Ratings: (T_A = +25°C unless otherwise specified)

Collector−Base Voltage, V_{CBO} 200V

Collector−Emitter Voltage, V_{CEO} 180V

Emitter−Base Voltage, V_{EBO} 5V

Collector Current, I_C 15A

Base Current, I_B 1A

Collector Power Dissipation (T_A = +25°C), P_C 130W

Operating Junction Temperature, T_J . . . . +150°C

Storage Temperature Range, T_{stg} . . . . −55° to +150°C

Electrical Characteristics: (T_A = +25°C unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	V_{CB} = 200V, I_E = 0	–	–	100	°A
Emitter Cutoff Current	I_{EBO}	V_{EB} = 5V, I_C = 0	–	–	100	°A
Collector−Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = 30mA	180	–	–	V
DC Current Gain	h_{FE}	V_{CE} = 4V, I_C = 10A	5000	–	–	
Collector−Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = 10A, I_B = 10mA	–	–	2.5	V
Base−Emitter Saturation Voltage	$V_{BE(sat)}$	I_C = 10A, I_B = 10mA	–	–	3.0	V
Transition Frequency	f_T	V_{CE} = 12V, I_E = 2A	–	70	–	MHz
Collector Output Capacitance	C_{ob}	V_{CB} = 10V, I_E = 0, f = 1MHz	–	120	–	pF

Schematic Diagram

NTE2649

B ○——— C

E

NTE2650

B ○——— C

E

.190 (4.82)

.787 (20.0)

.615 (15.62)

.591 (15.02)

.787 (20.0)

C

.126 (3.22) Dia

B   C   E

.215 (5.47)
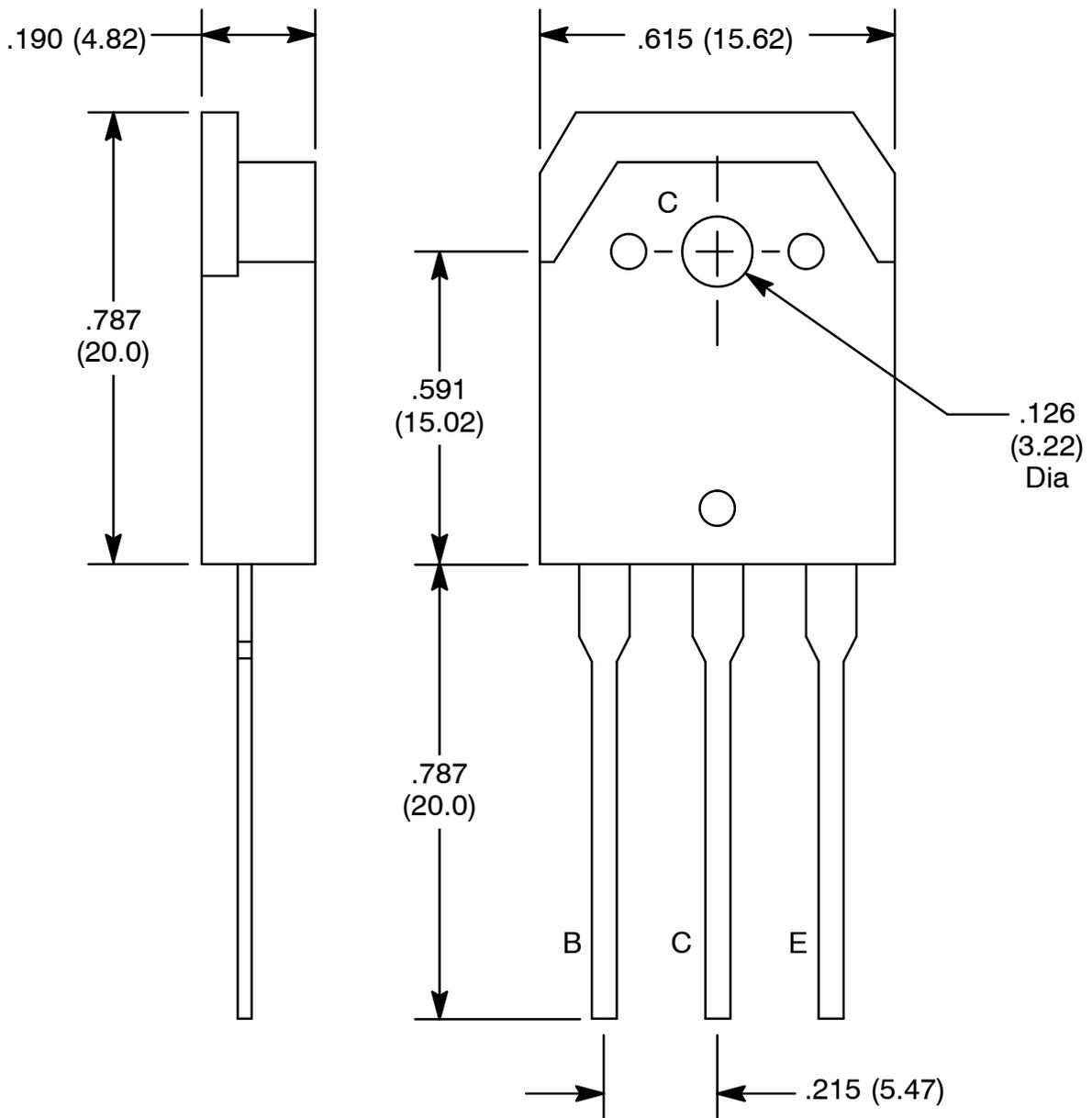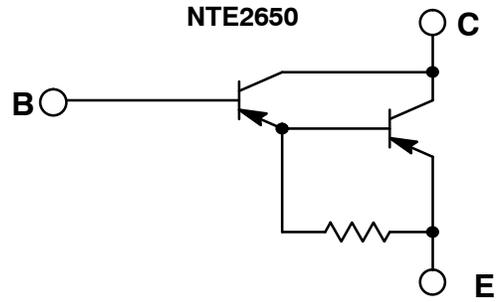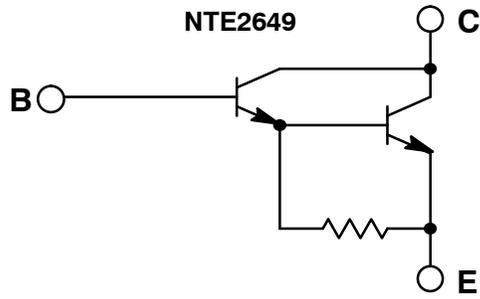
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