NTE2508 (NPN) & NTE2509 (PNP)
Silicon Complementary Transistors
Video Output for HDTV

Features:
- High Gain Bandwidth Product: f_T = 500MHz
- High Breakdown Voltage: V_{CEO} = 120V Min
- Low Reverse Transfer Capacitance and Excellent HF Response

Applications:
- High–Definition CRT Display Video Output
- Wide–Band Amp

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

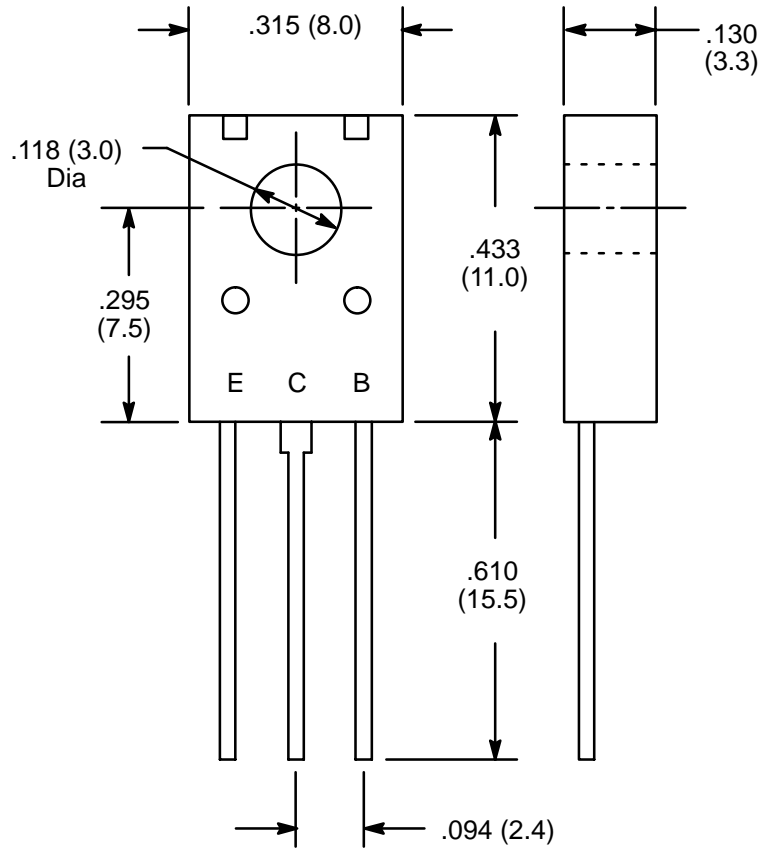Collector to Base Voltage, V_{CBO} 120V
Collector to Emitter Voltage, V_{CEO} 120V
Emitter to Base Voltage, V_{EBO} 3V
Collector Current, I_C
      Continuous 300mA
      Peak 600mA
Collector Dissipation, P_C
      T_A = +25°C 1.3W
      T_C = +25°C 8W
Operating Junction Temperature, T_J . . . . +150°C
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} = 80V, I_E = 0	–	–	0.1	µA
Emitter Cutoff Current	I_{EBO}	V_{EB} = 2V, I_C = 0	–	–	0.1	µA
DC Current Gain	h_{FE}	V_{CE} = 10V, I_C = 50mA	40	–	320	
		V_{CE} = 10V, I_C = 200mA	20	–	–	
Gain Bandwidth Product	f_T	V_{CE} = 10V, I_C = 50mA	–	400	–	MHz

Electrical Characteristics (Cont'd): $(T_A = +25°C$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Output Capacitance NTE2508	C_{ob}	$V_{CB} = 30V, f = 1MHz$	–	3.1	–	pF
NTE2509			–	4.4	–	pF
Reverse Transfer Capacitance NTE2508	C_{re}	$V_{CB} = 30V, f = 1MHz$	–	2.7	–	pF
NTE2509			–	4.0	–	pF
Collector to Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 50mA, I_B = 5mA$	–	–	1.0	V
Base to Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 50mA, I_B = 5mA$	–	–	1.0	V

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