



ELECTRONICS, INC.
 44 FARRAND STREET
 BLOOMFIELD, NJ 07003
 (973) 748-5089

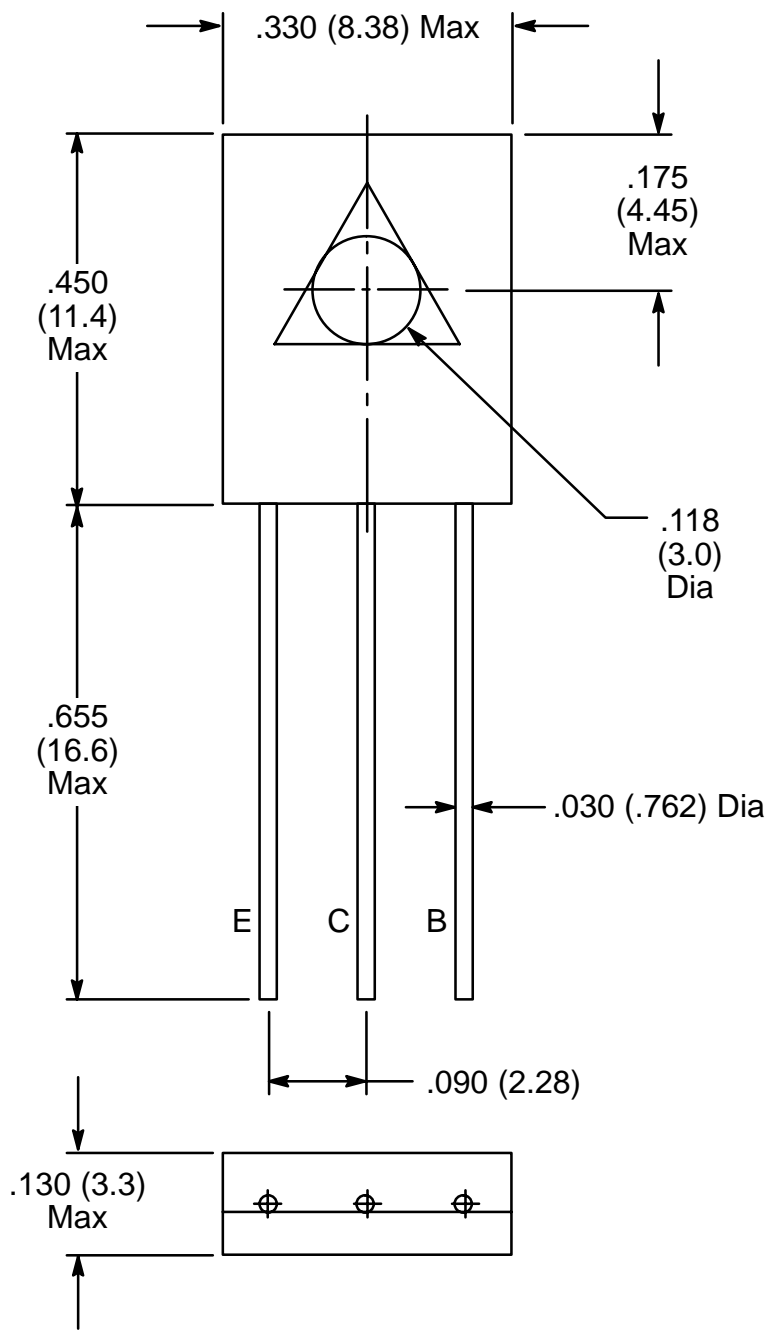
NTE295 Silicon NPN Transistor RF Power Output, Driver

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

Collector–Base Voltage, V_{CBO}	75V
Collector–Emitter Voltage ($R_{BE} = 150\Omega$), V_{CER}	75V
Collector–Emitter Voltage, V_{CEO}	45V
Emitter–Base Voltage, V_{EBO}	5V
Collector Current, I_C	
Continuous	1.0A
Peak	1.5A
Collector Dissipation ($T_A = +25^\circ\text{C}$), P_C	750mW
Collector Dissipation ($T_C = +25^\circ\text{C}$), P_C	5W
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}	$V_{CB} = 40V, I_E = 0$	–	–	1.0	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$	–	–	1.0	μA
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 10\mu\text{A}, I_E = 0$	75	–	–	V
Collector–Emitter Breakdown Voltage	$V_{(BR)CER}$	$I_C = 1\text{mA}, R_{BE} = 150\Omega$	75	–	–	V
	$V_{(BR)CEO}$	$I_C = 1\text{mA}, R_{BE} = \infty$	45	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 10\mu\text{A}, I_C = 0$	5	–	–	V
DC Current Gain	h_{FE}	$V_{CE} = 5V, I_C = 500\text{mA}$	60	–	320	
Current Gain Bandwidth Product	f_T	$V_{CE} = 10V, I_C = 50\text{mA}$	180	250	–	
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$	–	0.2	0.6	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$	–	0.9	1.2	V
Output Capacitance	C_{ob}	$V_{CB} = 10V, f = 1\text{MHz}$	–	15	25	pF
Output Power	P_O	$V_{CC} = 12V, f = 27\text{MHz}, P_i = 35\text{mW}$	1.0	1.8	–	W
Collector Efficiency	η		60	–	–	%



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