NTE14
Silicon PNP Transistor
High Power, Low Frequency Driver

Features:
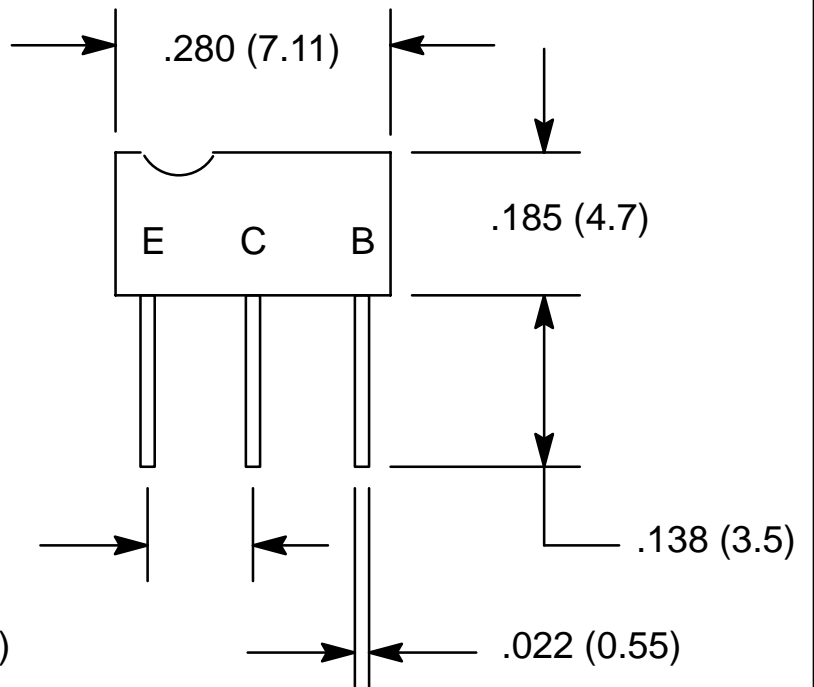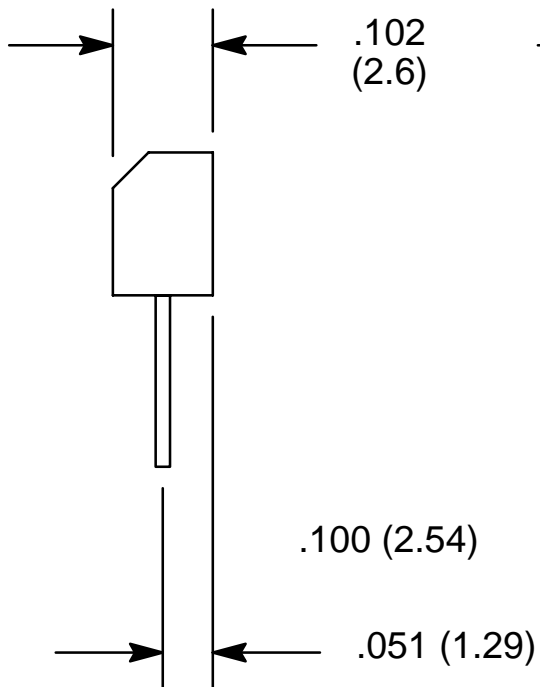
- High Power Compact FTR Package: $P_C = 750mW$
- High Breakdown Voltage: $V_{CEO} = 80V$

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

Collector–Base Voltage, V_{CBO} 80V

Collector–Emitter Voltage, V_{CEO} 80V

Emitter–Base Voltage, V_{EBO} 5V

Collector Current, I_C 700mA

Collector Dissipation, P_C 750mW

Junction Temperature, T_J . . . . +135°C

Storage Temperature Range, T_{stg} . . . . −55° to +135°C

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector–Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 2mA$	80	–	–	V
Collector–Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 50\mu A$	80	–	–	V
Emitter–Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 50\mu A$	5	–	–	V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 50V$	–	–	0.5	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4V$	–	–	0.5	μA
DC Current Gain	h_{FE}	$V_{CE} = 3V$, $I_C = 100mA$	120	–	270	–
Collector Saturation Voltage	$V_{CE(sat)}$	$I_C = 500mA$, $I_B = 50mA$	–	0.2	0.4	V
Transition Frequency	f_T	$V_{CE} = 10V$, $I_E = 50mA$	–	100	–	MHz
Output Capacitance	C_{ob}	$V_{CB} = 10V$, $I_E = 0$, f = 1MHz	–	14	20	pF

.102
(2.6)

.280 (7.11)

.185 (4.7)

E   C   B

.100 (2.54)

.138 (3.5)

.051 (1.29)

.022 (0.55)

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