NTE2572
Silicon NPN Transistor
High Current Switch

Features:
- Low Collector Emitter Saturation Voltage
- High Current Capacity

Applications:
- Relay Drivers
- High Speed Inverters
- Converters

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

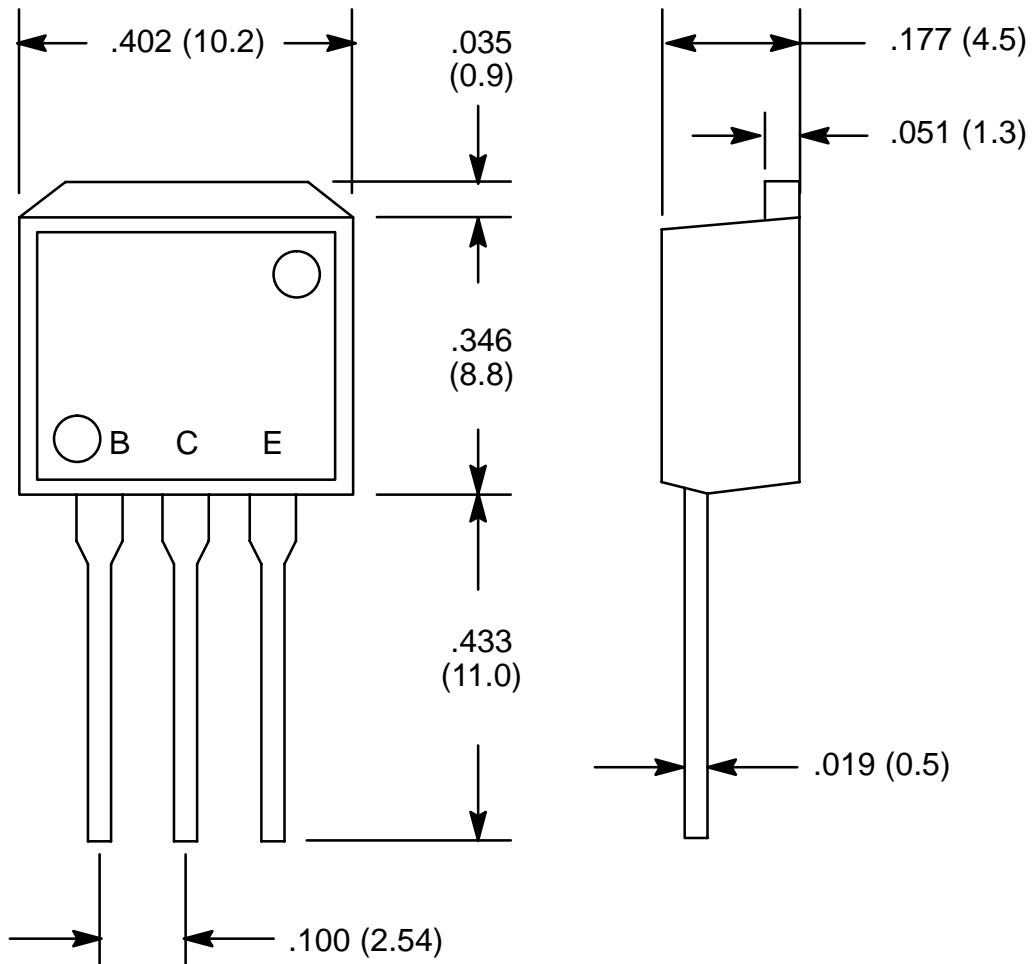Collector Base Voltage, V_{CBO} 90V
Collector Emitter Voltage, V_{CEO} 80V
Emitter Base Voltage, V_{EBO} 6V
Collector Current, I_C
      Continuous 7A
      Peak 12A
Collector Power Dissipation, P_C
      T_A = +25°C 1.65W
      T_C = +25°C 40W
Operating Junction Temperature, T_J . . . . +150°C
Storage 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	mA
Emitter Cutoff Current	I_{EBO}	V_{EB} = 4V, I_C = 0	–	–	0.1	mA
DC Current Gain	h_{FE}	V_{CE} = 2V, I_C = 1A	100	–	280	
		V_{CE} = 2V, I_C = 4A	30	–	–	
Gain–Bandwidth Product	f_T	V_{CE} = 5V, I_C = 4A	–	20	–	MHz
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = 4A, I_B = 400mA	–	–	0.4	V

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1mA, I_E = 0$	90	–	–	V
Collector Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1mA, R_{BE} = \infty$	80	–	–	V
Emitter Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1mA, I_C = 0$	6	–	–	V
Turn–On Time	t_{on}	$V_{CC} = 30V, V_{BE} = -5V,$ $10I_{B1} = -10I_{B2} = I_C = 2A,$ Pulse Width = 20µs, Duty Cycle $\leq$ 1%	–	0.1	–	µs
Storage Time	t_{stg}		–	1.6	–	µs
Fall Time	t_f		–	0.4	–	µs

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