ELECTRONICS, INC.
44 FARRAND STREET
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NTE2339
Silicon NPN Transistor
High Voltage, High Speed Switch
TO–220 Full Pack

Features:
- High Breakdown Voltage, High Reliability
- Fast Switching Speed
- Wide Safe Operating Area

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

Collector–Base Voltage, V_{CBO} 1100V
Collector–Emitter Voltage, V_{CEO} 800V
Emitter–Base Voltage, V_{EBO} 7V
Collector Current, I_C
Continuous 3A
Peak (Note 1) 10A
Collector Dissipation (T_C = +25°C), P_C 30W
Operating Junction Temperature, T_J . . . . . +150°C
Storage Temperature Range, T_{stg} . . . . . –55° to +150°C

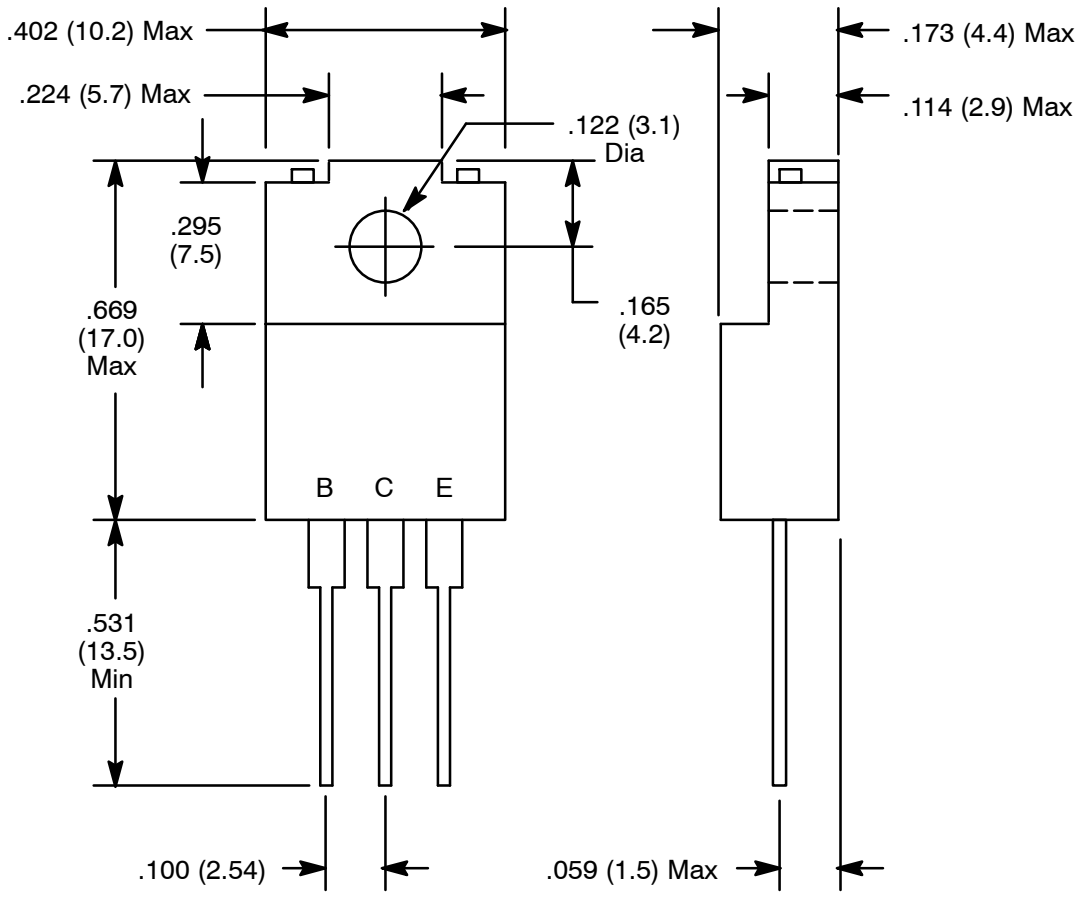
Note 1. Pulse Width ≤ 300μs, Duty Cycle ≤ 10%.

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	V_{CB} = 800V, I_E = 0	–	–	10	μA
Emitter Cutoff Current	I_{EBO}	V_{EB} = 5V, I_C = 0	–	–	10	μA
DC Current Gain	$h_{FE\ (1)}$	V_{CE} = 5V, I_C = 200mA	20	–	40	
	$h_{FE\ (2)}$	V_{CE} = 5V, I_C = 1A	8	–	–	
Gain Bandwidth Product	f_T	V_{CE} = 10V, I_C 200mA	–	15	–	MHz
Output Capacitance	C_{ob}	V_{CB} = 10V, f = 1MHz	–	60	–	pF
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	I_C = 1.5A, I_B = 300mA	–	–	2.0	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	I_C = 1.5A, I_B = 300mA	–	–	1.5	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	1100	–	–	V
Collector−Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C = 5mA, R_{BE} = ∞	800	–	–	V
Emitter−Base Breakdown Voltage	$V_{(BR)EBO}$	I_E = 1mA, I_C = 0	7	–	–	V
Collector−Emitter Sustaining Voltage	$V_{CEX(sus)}$	I_C = 1.5A, I_{B1} = I_{B2} = 300mA, L = 2mH, Clamped	800	–	–	V
Turn−On Time	t_{on}	V_{CC} = 400V, I_{B1} = −2.5A, I_{B2} = I_C = 2A, R_L = 200Ω	–	–	0.5	μs
Storage Time	t_{stg}		–	–	3.0	μs
Fall Time	t_f		–	–	0.3	μs



NOTE: TO−220 Full Pack

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