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NTE2598 Silicon NPN Transistor High Voltage, High Current Switch TO3PBL Type Package

Features:

- High Breakdown Voltage, Reliability
- fast Switching Speed
- Wide ASO

Absolute Maximum Ratings: ($T_A = +25^\circ\text{C}$ 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	25A
Peak (Note 1)	60A
Base Current, I_B	12A
Collector Power Dissipation ($T_C = +25^\circ\text{C}$), P_C	300W
Operating Junction Temperature, T_J	$+150^\circ\text{C}$
Storage Temperature Range, T_{stg}	-55° to $+150^\circ\text{C}$

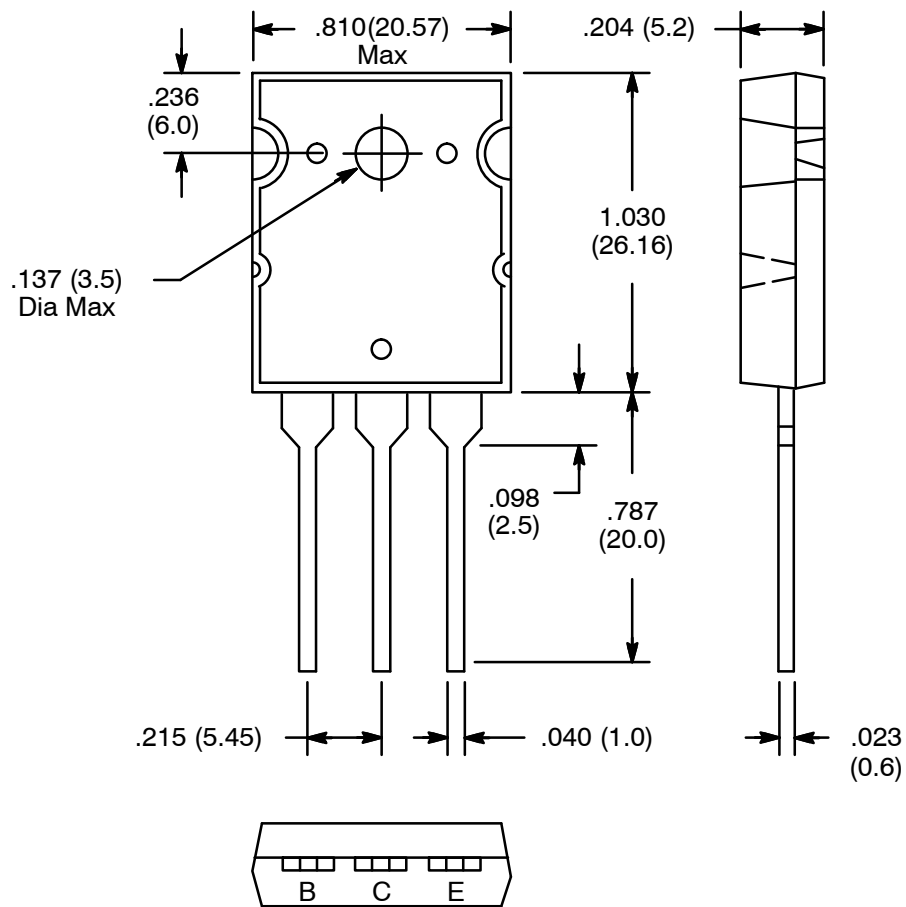
Note 1. Pulse Test: Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 10\%$.

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$V_{CB} = 800\text{V}, I_E = 0$	–	–	10	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 5\text{V}, I_C = 0$	–	–	10	μA
DC Current Gain	h_{FE}	$V_{CE} = 5\text{V}, I_C = 1.6\text{A}$	15	–	40	
		$V_{CE} = 5\text{V}, I_C = 8\text{A}$	8	–	–	
Gain–Bandwidth Product	f_T	$V_{CE} = 10\text{V}, I_C = 1.6\text{A}$	–	15	–	MHz
Output Capacitance	C_{ob}	$V_{CB} = 10\text{V}, f = 1\text{MHz}$	–	470	–	pF
Collector–Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 12\text{A}, I_B = 2.4\text{A}$	–	–	2.0	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 12\text{A}, I_B = 2.4\text{A}$	–	–	1.5	V

Electrical Characteristics (Cont'd): ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 1\text{mA}, I_E = 0$	1100	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 10\text{A}, R_{BE} = \infty$	800	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 1\text{mA}, I_C = 0$	7	-	-	V
Collector-Emitter Sustaining Voltage	$V_{CEO(sus)}$	$I_C = 12\text{A}, I_{B1} = -I_{B2} = 2.4\text{A}, I = 50\mu\text{H}, \text{Clamped}$	800	-	-	V
Turn-On Time	t_{on}	$V_{CC} = 400\text{V}, 5I_{B1} = -2.5I_{B2} = I_C = 20\text{A}, R_L = 20\Omega$	-	-	0.5	μs
Storage Time	t_{stg}		-	-	3.0	μs
Fall Time	t_f		-	-	0.3	μs



Note: Collector connected to heat sink.

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