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## NTE96 Silicon NPN Transistor Power Switching

**Absolute Maximum Ratings:**

Collector-Base Voltage, $V_{CBO}$ .....	100V
Collector-Emitter Voltage, $V_{CEO}$ .....	100V
Emitter-Base Voltage, $V_{EBO}$ .....	6V
Collector Current, $I_C$ .....	7A
Total Power Dissipation ( $T_C = +25^\circ\text{C}$ ), $P_D$ .....	60W
Operating Junction Temperature Range, $T_{j(oper)}$ .....	$-65^\circ$ to $+200^\circ\text{C}$
Storage Temperature Range, $T_{stg}$ .....	$-65^\circ$ to $+200^\circ\text{C}$

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Typical Forward Current Gain	$h_{FE}$	$I_C = 2A, V_{CE} = 2V$	60	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = 7A, I_B = 0.7A$	-	1.2	-	V
Transition Frequency	$f_T$		30	-	-	MHz

