



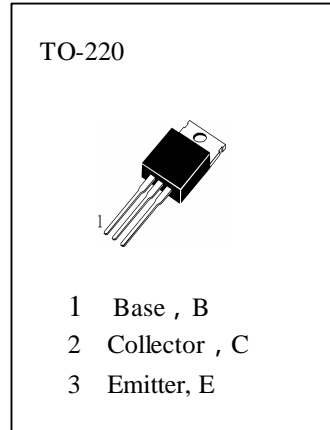
HC4054

APPLICATIONS

Switching Power .

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

T_{stg} —Storage Temperature.....	-65~150
T_j —Junction Temperature.....	150
P_C —Collector Dissipation ($T_c=25$)	30W
V_{CBO} —Collector-Base Voltage.....	600V
V_{CEO} —Collector-Emitter Voltage.....	450V
V_{EBO} —Emitter-Base Voltage.....	7V
I_C —Collector Current.....	5A
I_B —Base Current.....	2A



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	450			V	$I_C=100mA, I_B=0$
I _{CBO}	Collector Cutoff Current			0.1	mA	$V_{CB}=600V, I_E=0$
I _{EBO}	Emitter-Base Cutoff Current			0.1	mA	$V_{EB}=7V, I_C=0$
I _{CEO}	Collector Cutoff Current			0.1	mA	$V_{CE}=450V, I_B=0$
H _{FE} (1)	DC Current Gain	10				$V_{CE}=5V, I_C=2.5A$
H _{FE} (2)		5				$V_{CE}=5V, I_C=1mA$
V _{CE(sat1)}	Collector- Emitter Saturation Voltage			1	V	$I_C=2.5A, I_B=0.5A$
V _{BE(sat)}	Base-Emitter Saturation Voltage			1.5	V	$I_C=2.5mA, I_B=0.5A$
f _T	Current Gain-Bandwidth Product		20		MHz	$V_{CE}=10V, I_C=0.5A,$
t _{ON}	Turn-On Time			0.5	μs	$I_C=2.5A,$ $I_{B1}=0.5A, I_{B2}=1A$ $V_{BB2}=4V, R_L=60$
t _{STG}	Storage Time			2	μs	
t _F	Fall Time			0.2	μs	