

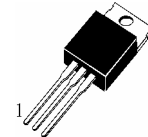
APPLICATIONS

Pulse Motor Driver.

ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$)

T_{stg}	Storage Temperature	-55~150 $^{\circ}\text{C}$
T_j	Junction Temperature	150 $^{\circ}\text{C}$
P_C	Collector Dissipation ($T_c=25^{\circ}\text{C}$)	15W
V_{CBO}	Collector-Base Voltage	-300V
V_{CEO}	Collector-Emitter Voltage	-300V
V_{EBO}	Emitter-Base Voltage	-7V
I_C	Collector Current	-300mA
I_b	Base Current	-30mA

TO-220



- 1 — Base, B
2 — Collector, C
3 — Emitter, E

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I_{EBO}	Emitter Cut-off Current			-10	μA	$V_{\text{EB}}=-7\text{V}$, $I_C=0$
I_{CBO}	Collector Cut-off Current			-10	μA	$V_{\text{CB}}=-300\text{V}$, $I_E=0$
$H_{\text{FE}}(1)$	DC Current Gain	1000				$V_{\text{CE}}=-1.5\text{V}$, $I_C=-20\text{mA}$
$H_{\text{FE}}(2)$	DC Current Gain	1500	6000	30000		$V_{\text{CE}}=-1.5\text{V}$, $I_C=-100\text{mA}$
$V_{\text{CE(sat)}}$	Collector- Emitter Saturation Voltage		-0.8	-1.5	V	$I_C=-100\text{mA}$, $I_B=-0.2\text{A}$
$V_{\text{BE(sat)}}$	Base-Emitter Saturation Voltage		-1.4	-2	V	$I_C=-100\text{mA}$, $I_B=-0.2\text{mA}$
f_t	Current Gain-Bandwidth Product		15		MHz	$V_{\text{CE}}=-1.5\text{V}$, $I_C=-20\text{mA}$,