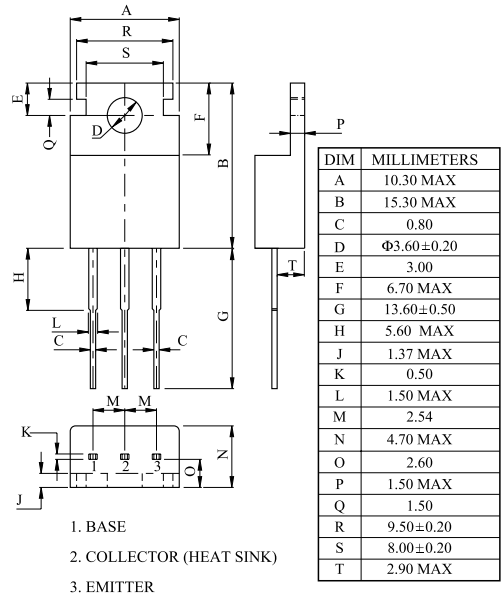
SWITCHING APPLICATIONS.
HAMMER DRIVER, PULSE MOTOR DRIVER APPLICATIONS.

FEATURES

- High DC Current Gain : h_{FE}=1000(Min.) at V_{CE}=-3V, I_C=-3A.
- High Collector Breakdown Voltage : V_{CEO}=-120V(Min.)



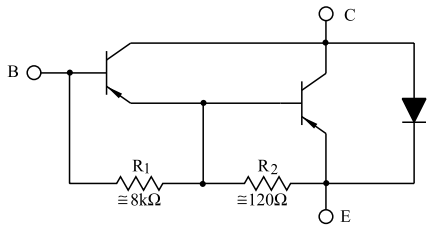
DIM	MILLIMETERS
A	10.30 MAX
B	15.30 MAX
C	0.80
D	Φ3.60±0.20
E	3.00
F	6.70 MAX
G	13.60±0.50
H	5.60 MAX
J	1.37 MAX
K	0.50
L	1.50 MAX
M	2.54
N	4.70 MAX
O	2.60
P	1.50 MAX
Q	1.50
R	9.50±0.20
S	8.00±0.20
T	2.90 MAX

TO-220AB

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-120	V
Collector-Emitter Voltage		V_{CEO}	-120	V
Emitter-Base Voltage		V_{EB0}	-5	V
Collector Current	DC	I_C	-5	A
	Pules	I_{CP}	-8	
Base Current		I_B	-0.12	A
Collector Power Dissipation (Tc=25℃)		P_C	65	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 150	℃

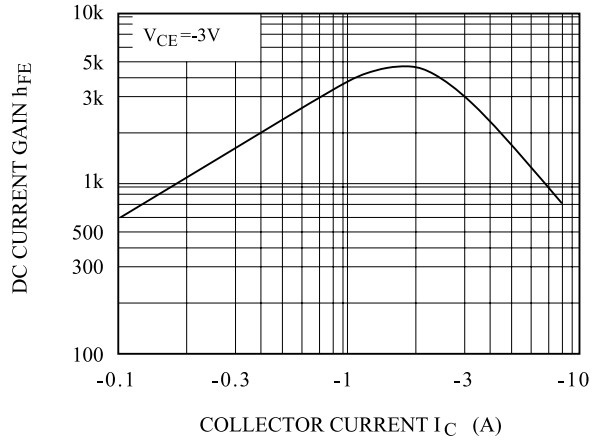
EQUIVALENT CIRCUIT



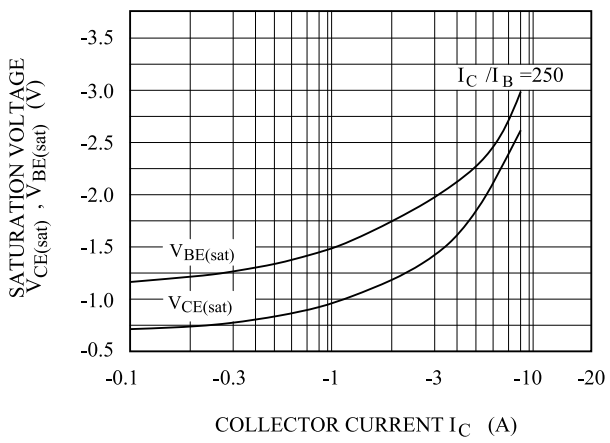
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=-100V, I_E=0	-	-	-1	mA
Emitter Cut-off Current	I_{EBO}	V_{EB}=-5V, I_C=0	-	-	-2	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=-10mA, I_B=0	-120	-	-	V
DC Current Gain	h_{FE}(1)	V_{CE}=-3V, I_C=-0.5A	1000	-	-	
	h_{FE}(2)	V_{CE}=-3V, I_C=-3A	1000	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$(1)	I_C=-3A, I_B=-12mA	-	-	-2	V
	$V_{CE(sat)}$(2)	I_C=-5A, I_B=-20mA	-	-	-4	
Base-Emitter Voltage	V_{BE}	V_{CE}=-3V, I_C=-3A	-	-	-2.5	V
Output Capacitance	C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	-	300	pF

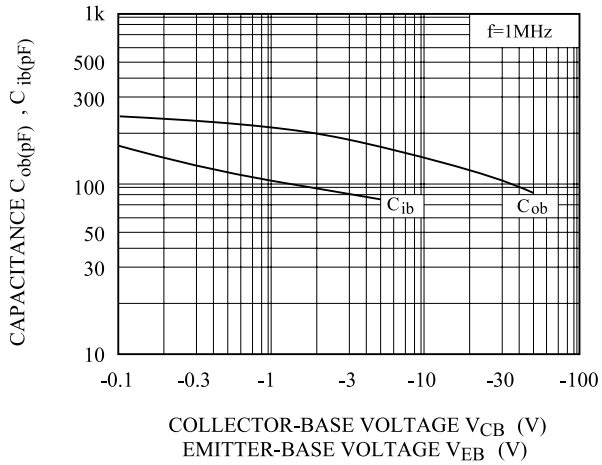
h_{FE} - I_C



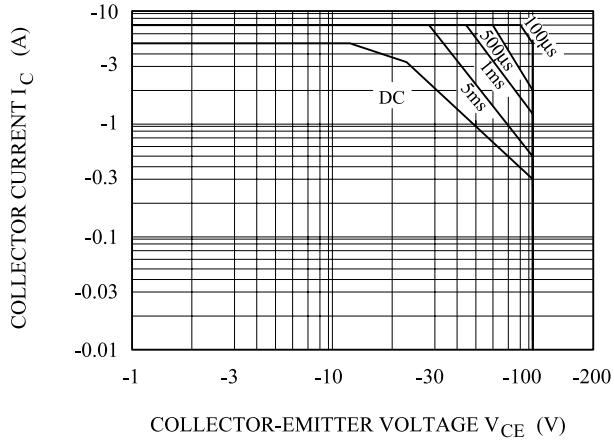
$V_{CE(sat)}$, $V_{BE(sat)}$, - I_C



C_{ob} , C_{ib} - V_{CB} , V_{EB}



SAFE OPERATING AREA



P_C - Ta