

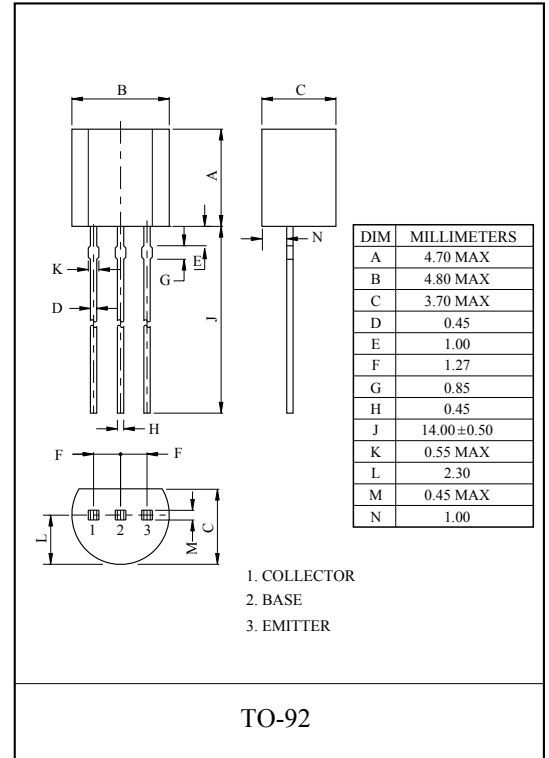
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- High Current : $I_C=800\text{mA}$.
- DC Current Gain : $h_{FE}=100 \sim 630$ ($V_{CE}=1\text{V}$, $I_C=100\text{mA}$).
- For Complementary with PNP type BC328.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	800	mA
Emitter Current	I_E	-800	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$



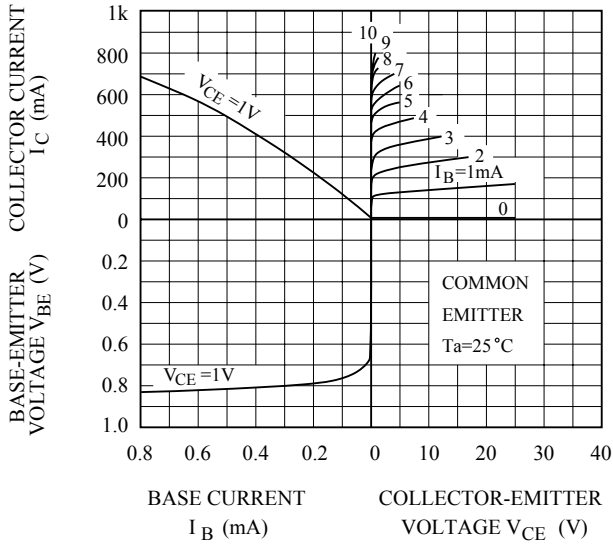
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=25\text{V}$, $I_E=0$	-	-	100	nA
DC Current Gain (Note)	h_{FE}	$V_{CE}=1\text{V}$, $I_C=100\text{mA}$	100	-	630	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}$, $I_B=50\text{mA}$	-	-	0.7	V
Base-Emitter Voltage	$V_{BE(ON)}$	$V_{CE}=1\text{V}$, $I_C=300\text{mA}$	-	-	1.2	V
Transition Frequency	f_T	$V_{CE}=5\text{V}$, $I_C=10\text{mA}$, $f=100\text{MHz}$	-	100	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $f=1\text{MHz}$, $I_E=0$	-	12	-	pF

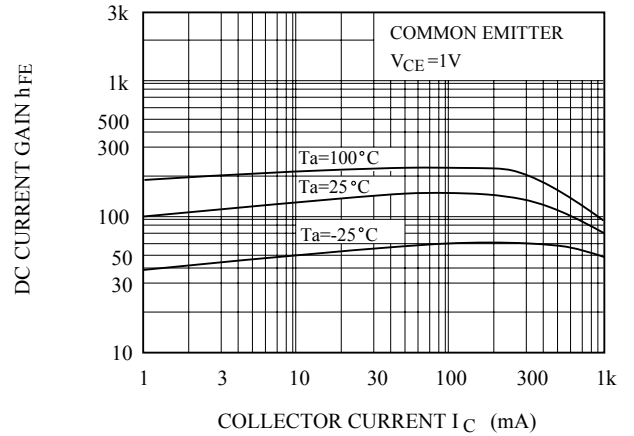
Note : h_{FE} Classification none:100 ~ 630, 16:100 ~ 250, 25:160 ~ 400, 40:250 ~ 630

BC338

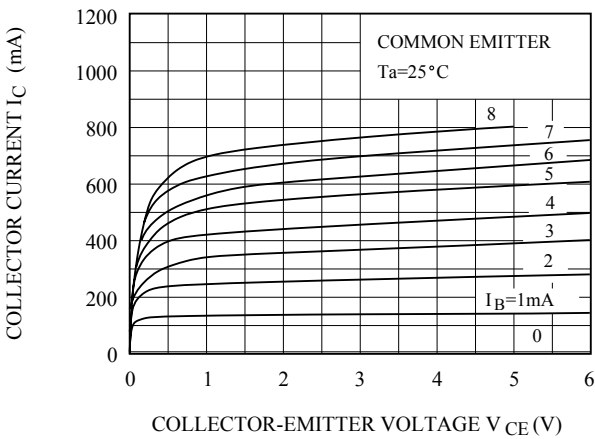
STATIC CHARACTERISTICS



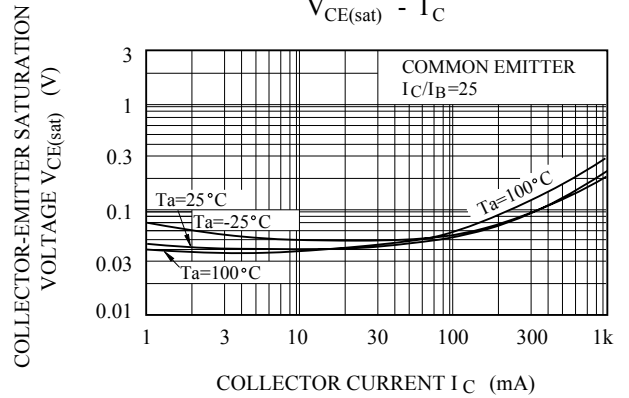
$h_{FE} - I_C$



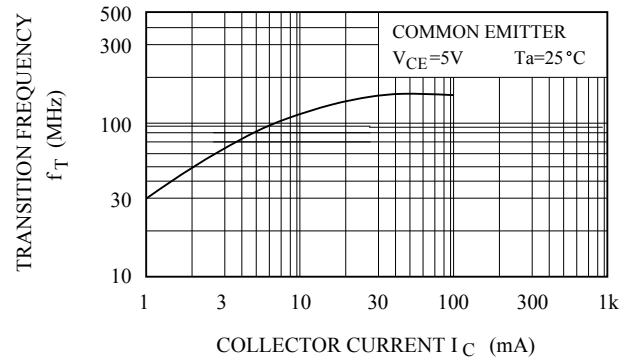
$I_C - V_{CE}$ (LOW VOLTAGE REGION)



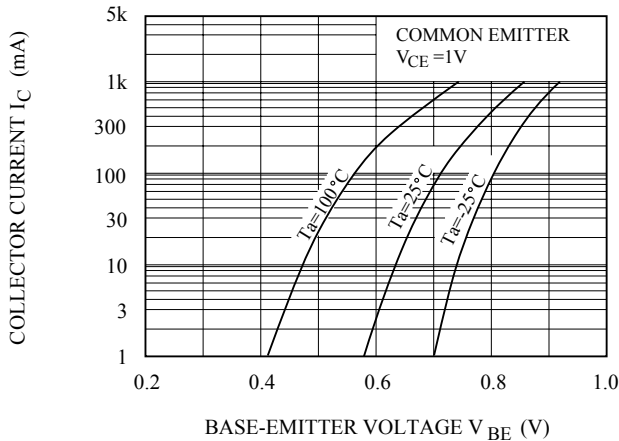
$V_{CE(sat)} - I_C$



$f_T - I_C$



$I_C - V_{BE}$



$P_C - T_a$

