

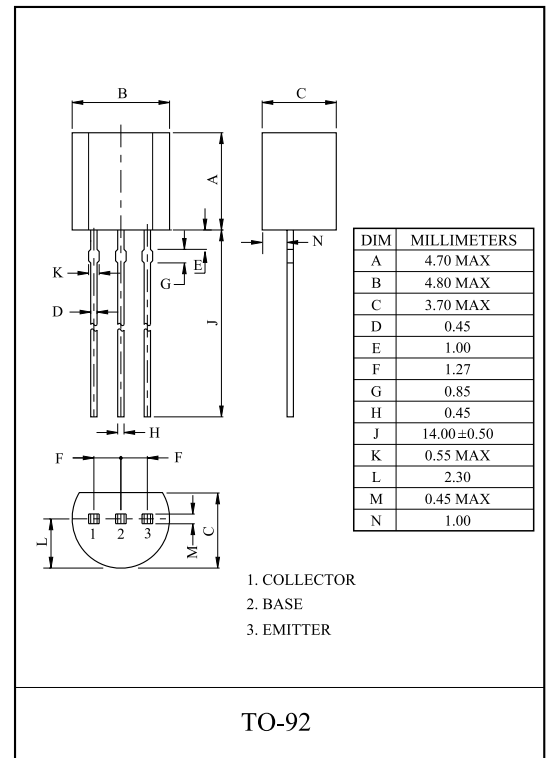
GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

### 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 NPN type BC338.

### 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	
Storage Temperature Range	$T_{stg}$	-55 150	

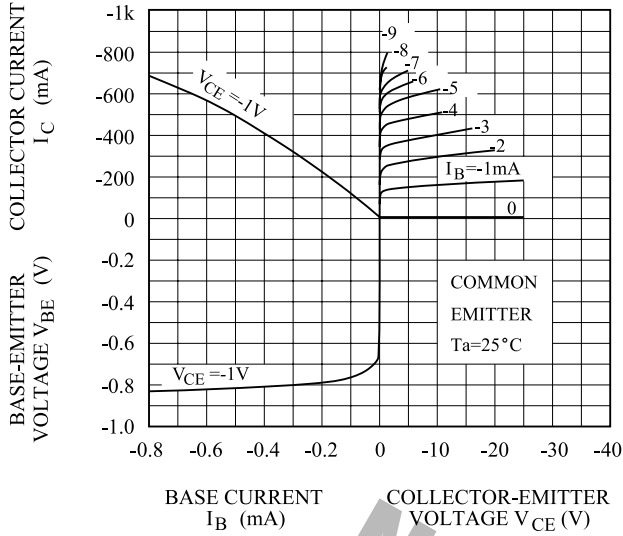


### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

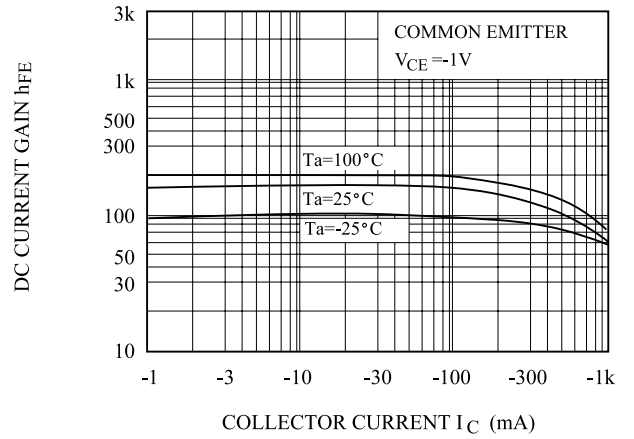
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -25\text{V}$ , $I_E = 0$	-	-	-100	nA
DC Current Gain (Note)	$h_{FE}$	$V_{CE} = -1\text{V}$ , $I_C = -100\text{mA}$	100	-	630	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}$ , $I_B = -50\text{mA}$	-	-	-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	$C_{ob}$	$V_{CB} = -10\text{V}$ , $f = 1\text{MHz}$ , $I_E = 0$	-	16	-	pF

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

## STATIC CHARACTERISTICS

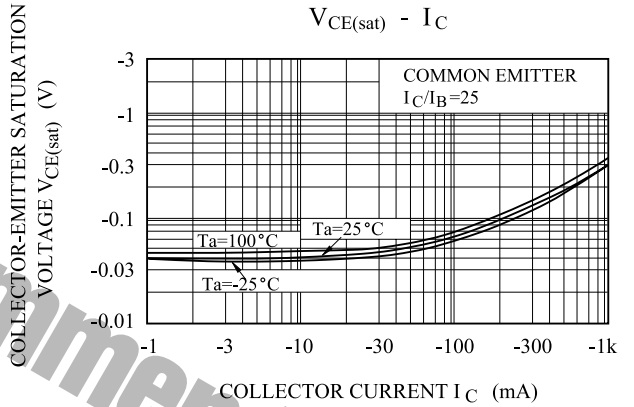


## $h_{FE} - I_C$

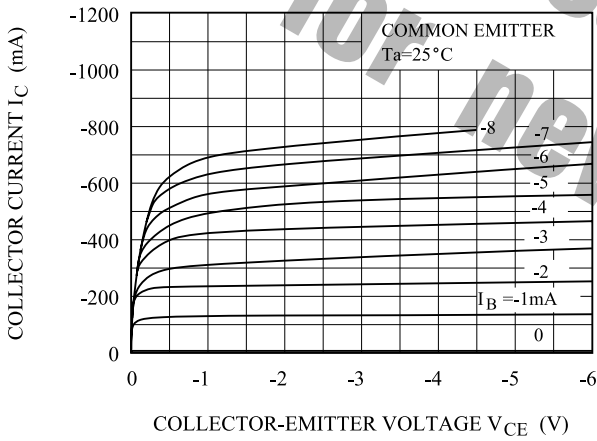


BASE CURRENT  $I_B$  (mA)      COLLECTOR-EMITTER VOLTAGE  $V_{CE}$  (V)

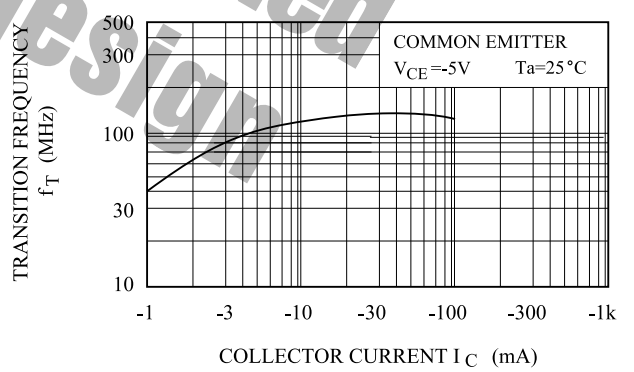
## $V_{CE(sat)} - I_C$



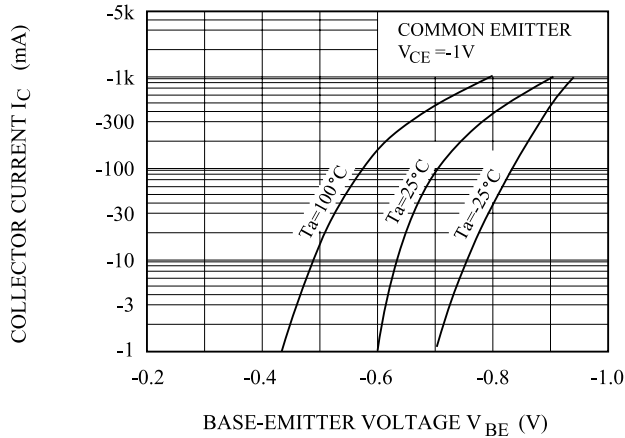
## $I_C - V_{CE}$ (LOW VOLTAGE REGION)



## $f_T - I_C$



## $I_C - V_{BE}$



## COLLECTOR POWER DISSIPATION $P_C - T_a$

