

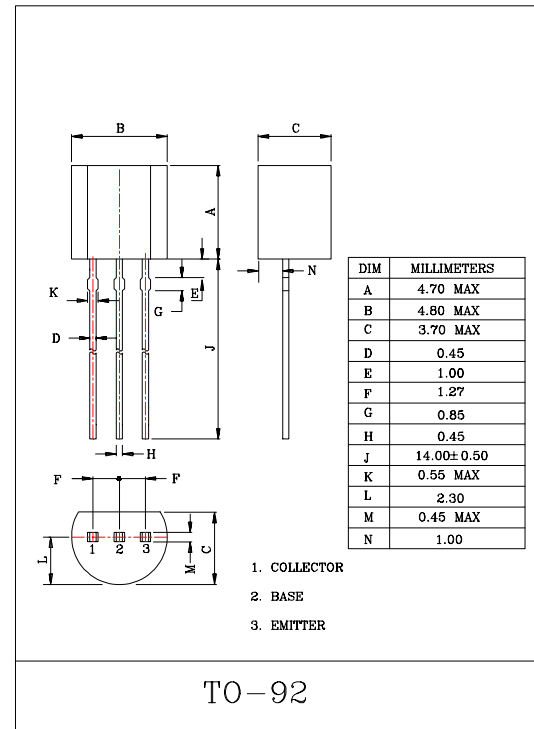
GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

### FEATURES

- High Current :  $I_C = -800\text{mA}$ .
- DC Current Gain :  $h_{FE} = 100 \sim 400$  ( $V_{CE} = -1\text{V}$ ,  $I_C = -100\text{mA}$ ).
- For Complementary with NPN type BC337.

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

| CHARACTERISTIC              | SYMBOL    | RATING    | UNIT             |
|-----------------------------|-----------|-----------|------------------|
| Collector-Base Voltage      | $V_{CBO}$ | -50       | V                |
| Collector-Emitter Voltage   | $V_{CEO}$ | -45       | 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 | $^\circ\text{C}$ |

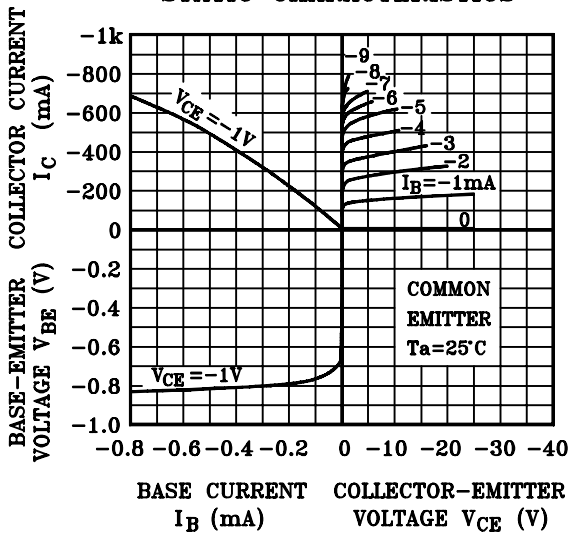


### ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

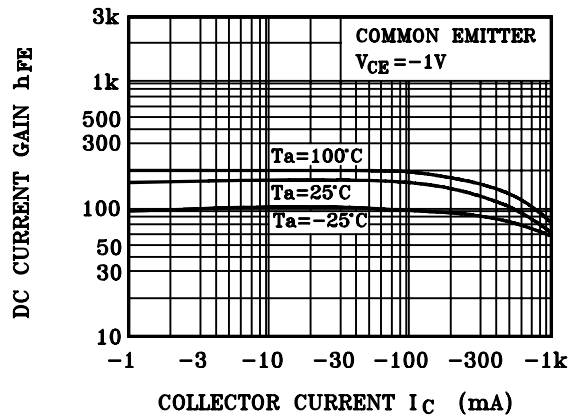
| CHARACTERISTIC                       | SYMBOL        | TEST CONDITION  | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|---|------|------|------|------|
| Collector Cut-off Current            | $I_{CBO}$     | $V_{CB} = -45\text{V}$ , $I_E = 0$                                    | -    | -    | -100 | nA   |
| DC Current Gain (Note)               | $h_{FE}$      | $V_{CE} = -1\text{V}$ , $I_C = -100\text{mA}$                         | 100  | -    | 400  |      |
| 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                 | $f_T$         | $V_{CE} = -5\text{V}$ , $I_C = -10\text{mA}$ ,<br>$f = 100\text{MHz}$ | -    | 100  | -    | MHz  |
| Collector Output Capacitance         | $C_{ob}$      | $V_{CB} = -10\text{V}$ , $f = 1\text{MHz}$                            | -    | 16   | -    | pF   |

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

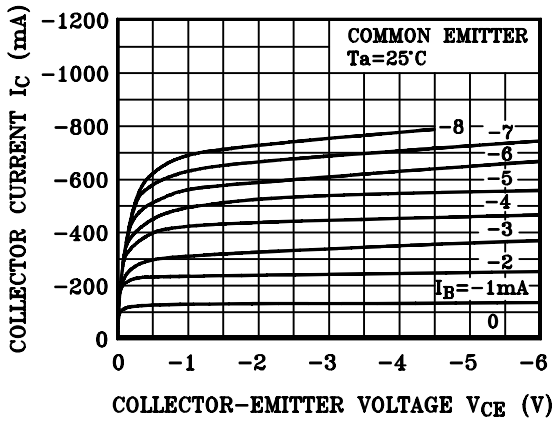
## STATIC CHARACTERISTICS



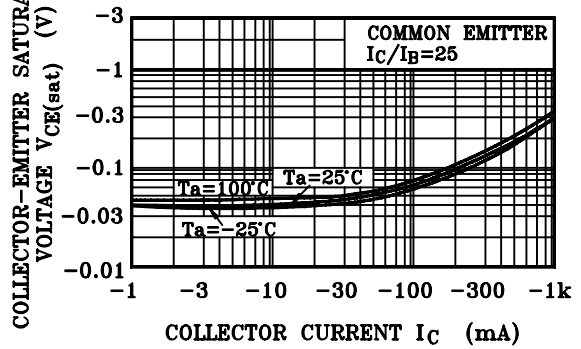
## $h_{FE} - I_C$



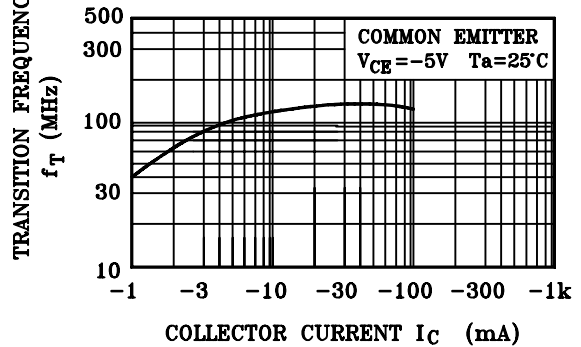
## $I_C - V_{CE}$ (LOW VOLTAGE REGION)



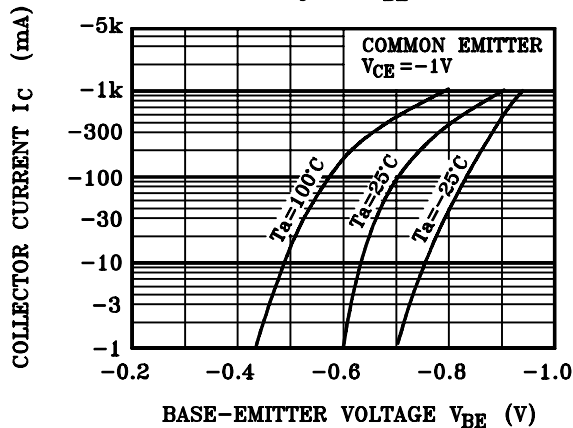
## $V_{CE(sat)} - I_C$



## $f_T - I_C$



## $I_C - V_{BE}$



## $P_C - T_a$

