

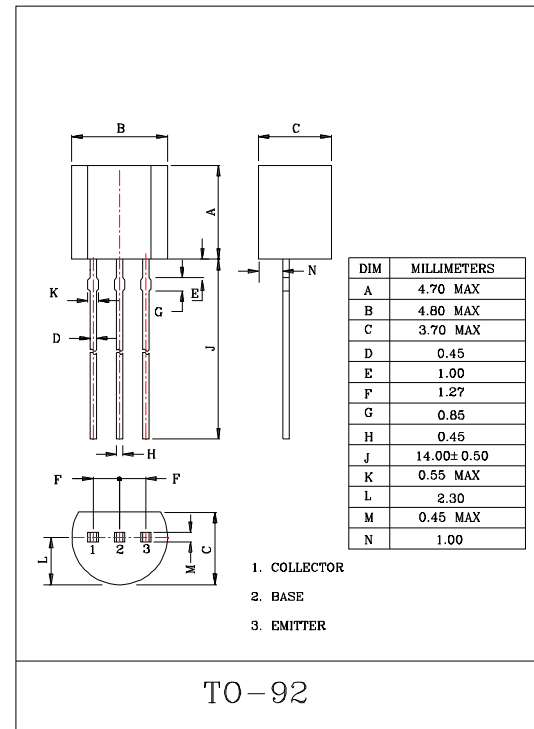
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

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 | $^\circ\text{C}$ |

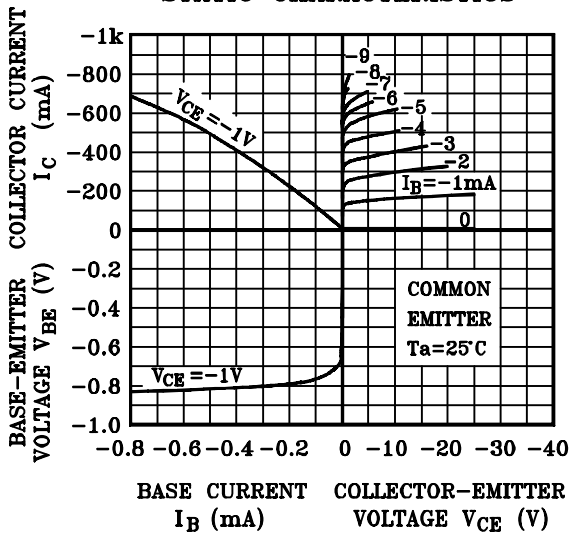


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

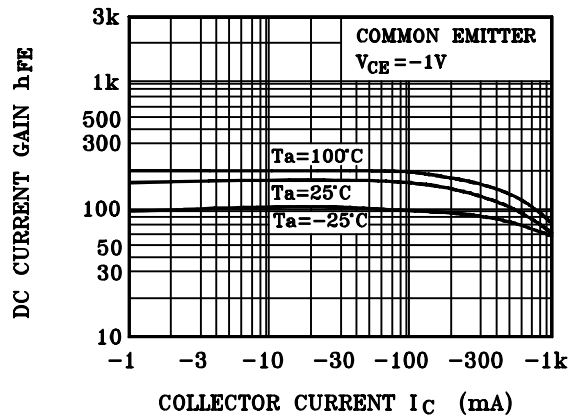
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|---|------|------|------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -45\text{V}$, $I_E = 0$ | - | - | -100 | nA |
| DC Current Gain (Note) | h_{FE} | $V_{CE}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

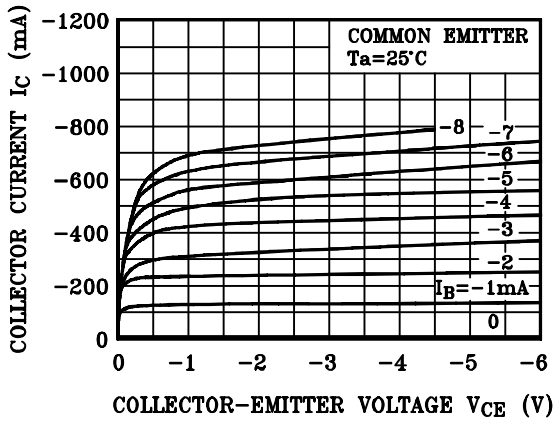
STATIC CHARACTERISTICS



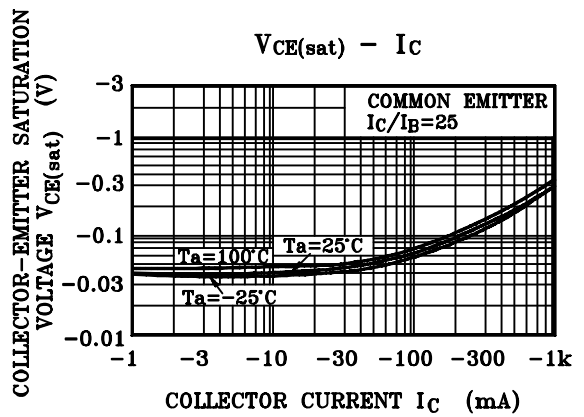
$h_{FE} - I_C$



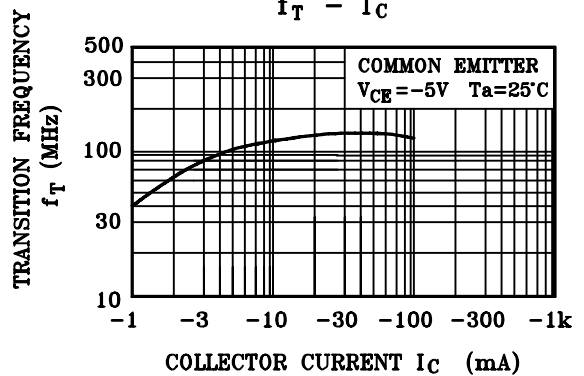
$I_C - V_{CE}$ (LOW VOLTAGE REGION)



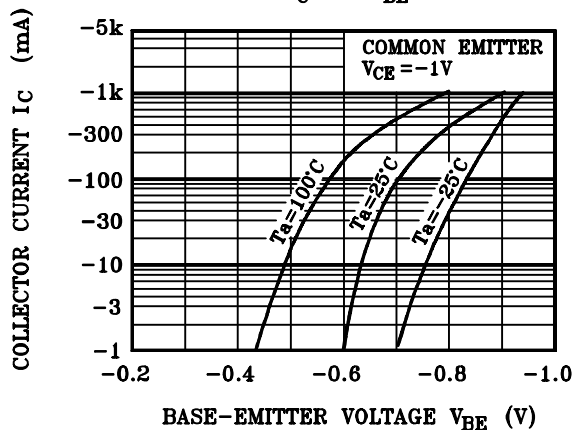
$V_{CE(sat)} - I_C$



$f_T - I_C$



$I_C - V_{BE}$



$P_C - T_a$

