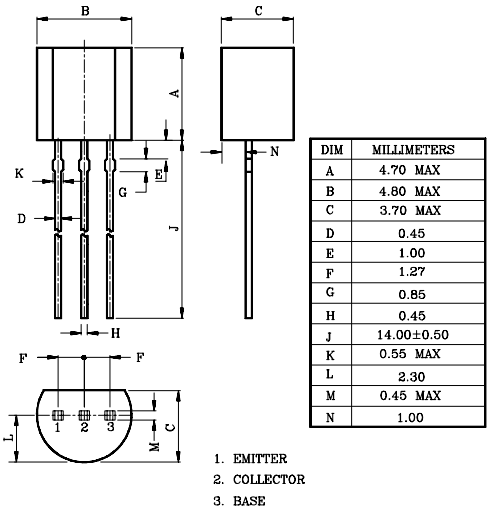
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES
- Excellent $h_{FE}$ Linearity
  : $h_{FE}(2)$=25(Min.), ($V_{CE}$=2V, $I_C$=200mA).
- Complementary to KTA200.




| DIM | MILLIMETERS |
|---|---|
| A | 4.70 MAX |
| B | 4.80 MAX |
| C | 3.70 MAX |
| D | 0.45 |
| E | 1.00 |
| F | 1.27 |
| G | 0.85 |
| H | 0.45 |
| J | 14.00±0.50 |
| K | 0.55 MAX |
| L | 2.30 |
| M | 0.45 MAX |
| N | 1.00 |

TO-92

MAXIMUM RATINGS (Ta=25℃)

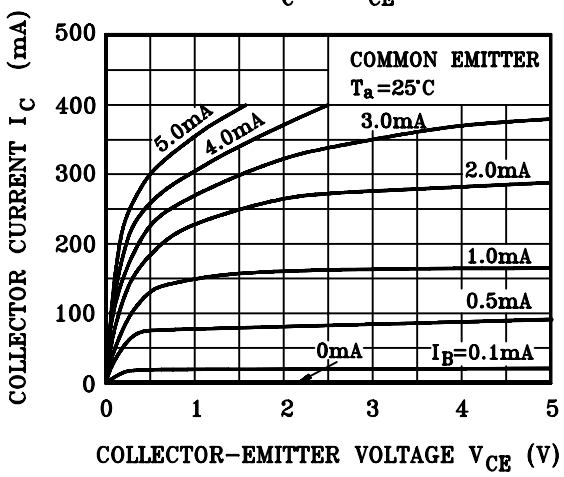
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---|---|---|---|
| Collector-Base Voltage | $V_{CBO}$ | 60 | V |
| Collector-Emitter Voltage | $V_{CEO}$ | 45 | V |
| Emitter-Base Voltage | $V_{EBO}$ | 5 | V |
| Collector Current | $I_C$ | 500 | mA |
| Emitter Current | $I_E$ | -500 | mA |
| Collector Power Dissipation | $P_C$ | 625 | mW |
| Junction Temperature | $T_j$ | 150 | ℃ |
| Storage Temperature Range | $T_{stg}$ | -55~150 | ℃ |

ELECTRICAL CHARACTERISTICS (Ta=25℃)

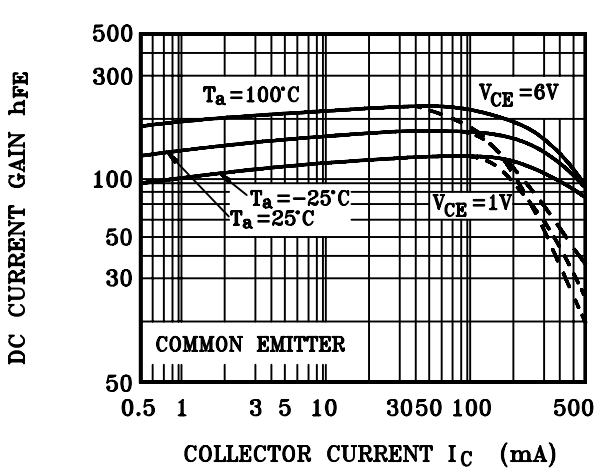
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Collector Cut-off Current | $I_{CBO}$ | $V_{CB}$=50V, $I_E$=0 | - | - | 0.1 | μA |
| Emitter Cut-off Current | $I_{EBO}$ | $V_{EB}$=5V, $I_C$=0 | - | - | 0.1 | μA |
| DC Current Gain | $h_{FE}(1)$ (Note) | $V_{CE}$=2V, $I_C$=50mA | 70 | - | 240 | |
| | $h_{FE}(2)$ | $V_{CE}$=2V, $I_C$=200mA | 25 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=100mA, $I_B$=10mA | - | - | 0.25 | V |
| Base-Emittter Voltage | $V_{BE}$ | $V_{CE}$=2V, $I_C$=200mA | - | - | 1.0 | V |
| Transition Frequency | $f_T$ | $V_{CE}$=6V, $I_C$=20mA | - | 300 | - | MHz |
| Collector Output Capacitance | $C_{ob}$ | $V_{CB}$=6V, $I_E$=0, f=1MHz | - | 7.0 | - | pF |

Note : $h_{FE}$ Classification O:70~140 , Y:120~240

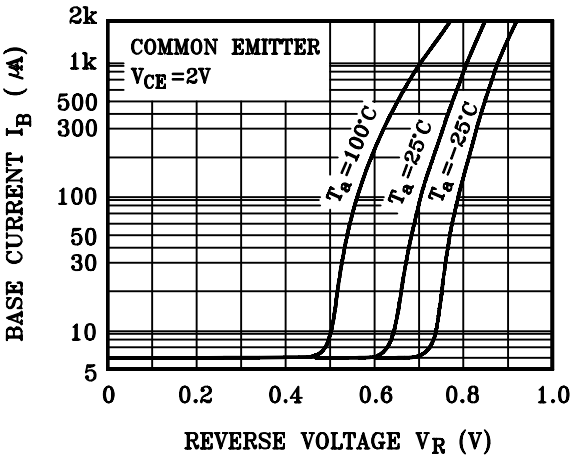
$I_C - V_{CE}$



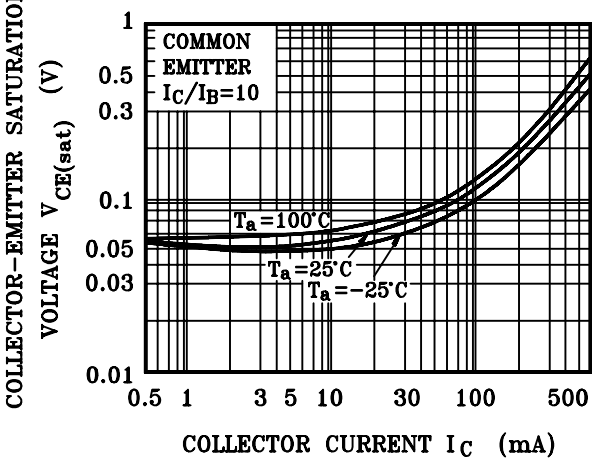

$h_{FE} - I_C$




$I_B - V_{BE}$




$V_{CE(sat)} - I_C$




$P_C - Ta$

