

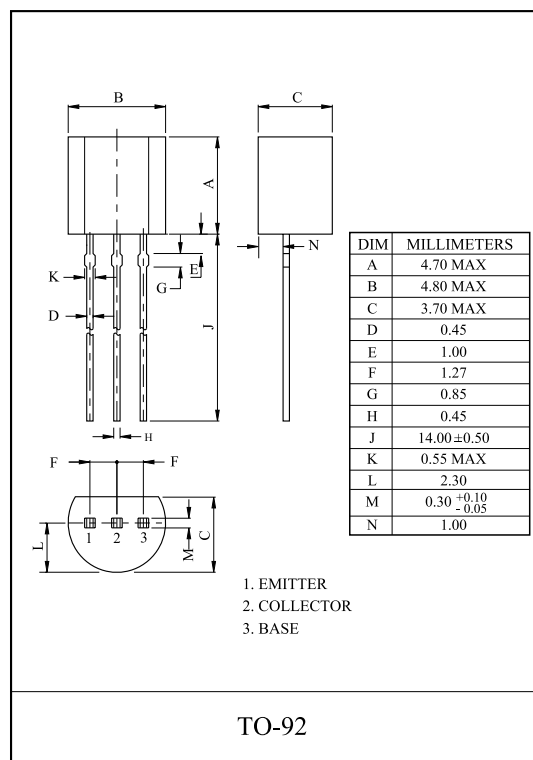
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Excellent h_{FE} Linearity
: $h_{FE}(2)=25(\text{Min.})$ at $V_{CE}=-6V, I_C=-400\text{mA}$.
- Complementary to KTC3202.

MAXIMUM RATING ($T_a=25$)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | -35 | V |
| Collector-Emitter Voltage | V_{CEO} | -30 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -500 | mA |
| Base Current | I_B | -100 | mA |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |



ELECTRICAL CHARACTERISTICS ($T_a=25$)

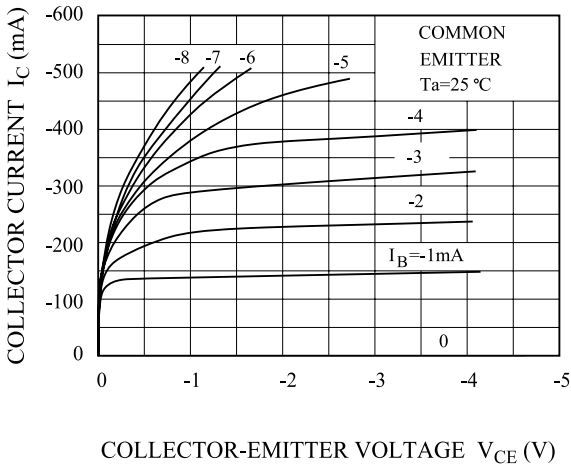
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------|---------------------------------------|------|------|-------|---------------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=-35V, I_E=0$ | - | - | -0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5V, I_C=0$ | - | - | -0.1 | μA |
| DC Current Gain | $h_{FE}(1)$ (Note) | $V_{CE}=-1V, I_C=-100\text{mA}$ | 70 | - | 240 | |
| | $h_{FE}(2)$ (Note) | $V_{CE}=-6V, I_C=-400\text{mA}$ | 25 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-100\text{mA}, I_B=-10\text{mA}$ | - | -0.1 | -0.25 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=-1V, I_C=-100\text{mA}$ | - | -0.8 | -1.0 | V |
| Transition Frequency | f_T | $V_{CE}=-6V, I_C=-20\text{mA}$ | - | 200 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-6V, I_E=0, f=1\text{MHz}$ | - | 13 | - | pF |

Note : $h_{FE}(1)$ Classification 0:70 140, Y:120 240

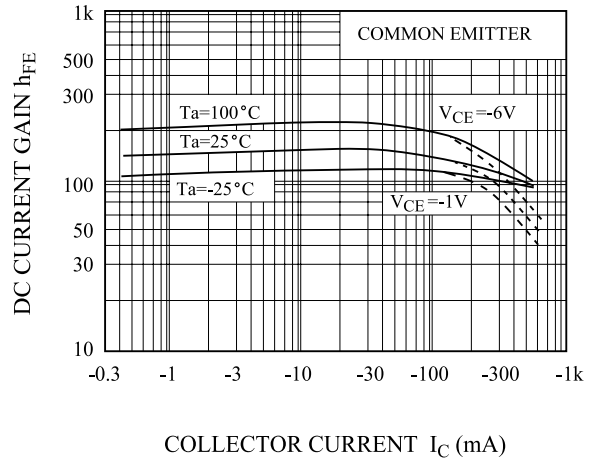
$h_{FE}(2)$ Classification 0:25Min., Y:40Min.

KTA1270

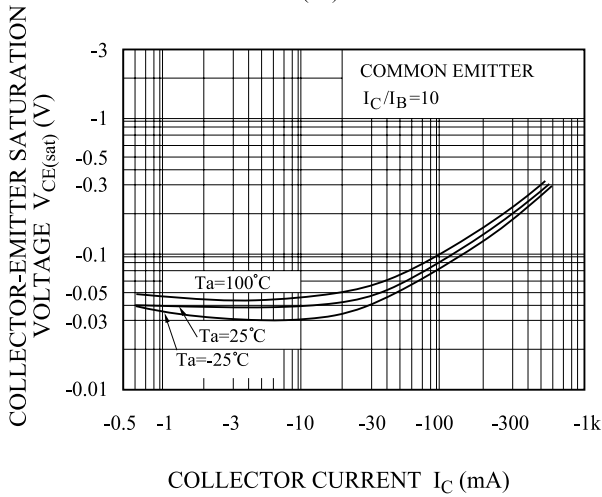
$I_C - V_{CE}$



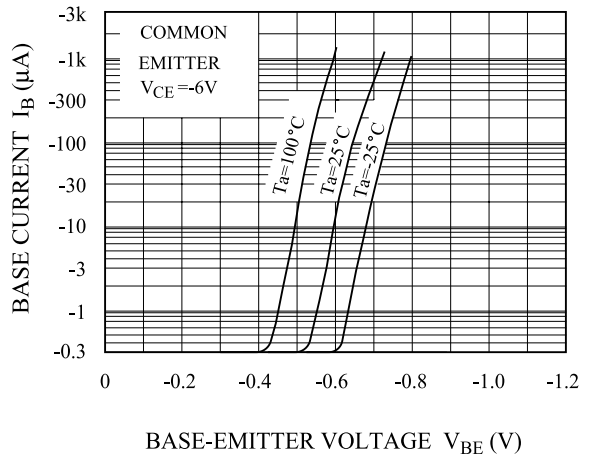
$h_{FE} - I_C$



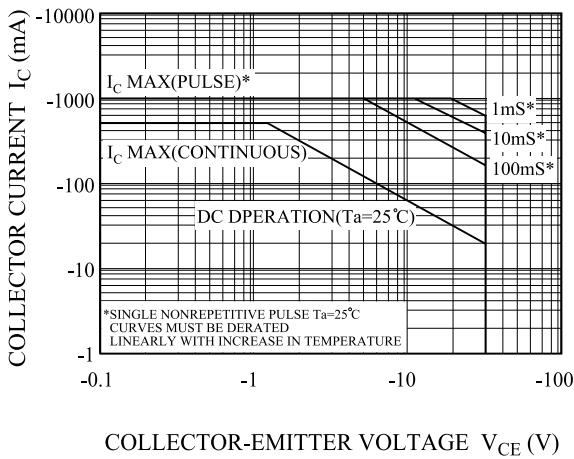
$V_{CE(sat)} - I_C$



$I_B - V_{BE}$



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