

GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

### FEATURES

- Excellent  $h_{FE}$  Linearity  
 :  $h_{FE}(2)=80(\text{Typ.})$  at  $V_{CE}=-6V, I_C=-150\text{mA}$   
 :  $h_{FE}(I_C=0.1\text{mA})/h_{FE}(I_C=2\text{mA})=0.95(\text{Typ.})$ .
- Low Noise :  $NF=1\text{dB}(\text{Typ.})$  at  $f=1\text{kHz}$ .
- Complementary to KTC3198.

### MAXIMUM RATING (Ta=25 )

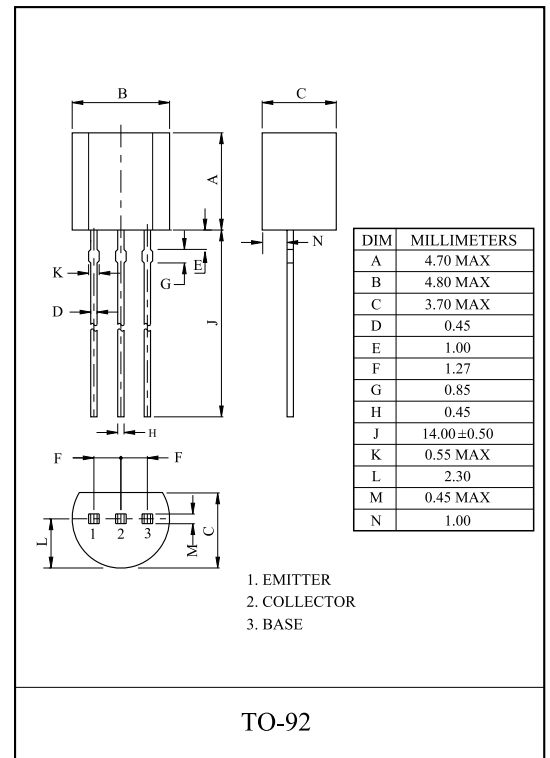
| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage      | $V_{CBO}$ | -50     | V    |
| Collector-Emitter Voltage   | $V_{CEO}$ | -50     | V    |
| Emitter-Base Voltage        | $V_{EBO}$ | -5      | V    |
| Collector Current           | $I_C$     | -150    | mA   |
| Base Current                | $I_B$     | -50     | mA   |
| Collector Power Dissipation | * $P_C$   | 625     | mW   |
|                             |           | 400     |      |
| Junction Temperature        | $T_j$     | 150     |      |
| Storage Temperature Range   | $T_{stg}$ | -55 150 |      |

\*Cu Lead-Frame : 625mW  
Fe Lead-Frame : 400mW

### ELECTRICAL CHARACTERISTICS (Ta=25 )

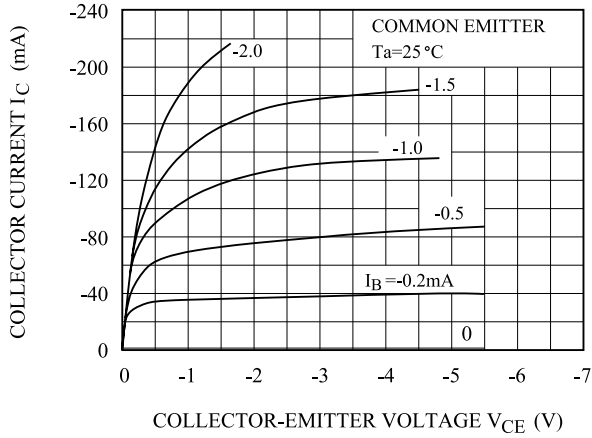
| CHARACTERISTIC                       | SYMBOL             | TEST CONDITION  | MIN. | TYP. | MAX. | UNIT          |
|--------------------------------------|--------------------|---|------|------|------|---------------|
| Collector Cut-off Current            | $I_{CBO}$          | $V_{CB}=-50V, I_E=0$                                    | -    | -    | -0.1 | $\mu\text{A}$ |
| Emitter Cut-off Current              | $I_{EBO}$          | $V_{EB}=-5V, I_C=0$                                     | -    | -    | -0.1 | $\mu\text{A}$ |
| DC Current Gain                      | $h_{FE}(1)$ (Note) | $V_{CE}=-6V, I_C=-2\text{mA}$                           | 70   | -    | 400  |               |
|                                      | $h_{FE}(2)$        | $V_{CE}=-6V, I_C=-150\text{mA}$                         | 25   | -    | -    |               |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$      | $I_C=-100\text{mA}, I_B=-10\text{mA}$                   | -    | -0.1 | -0.3 | V             |
| Base-Emitter Saturation Voltage      | $V_{BE(sat)}$      | $I_C=-100\text{mA}, I_B=-10\text{mA}$                   | -    | -    | -1.1 | V             |
| Transition Frequency                 | $f_T$              | $V_{CE}=-10V, I_C=-1\text{mA}$                          | 80   | -    | -    | MHz           |
| Collector Output Capacitance         | $C_{ob}$           | $V_{CB}=-10V, I_E=0, f=1\text{MHz}$                     | -    | 4.0  | 7.0  | pF            |
| Base Intrinsic Resistance            | $r_{bb'}$          | $V_{CB}=-10V, I_E=1\text{mA}, f=30\text{MHz}$           | -    | 30   | -    |               |
| Noise Figure                         | NF                 | $V_{CE}=-6V, I_C=-0.1\text{mA}, R_g=10k, f=1\text{kHz}$ | -    | 1.0  | 10   | dB            |

Note :  $h_{FE}(1)$  Classification O:70 140, Y:120 240, GR:200 400

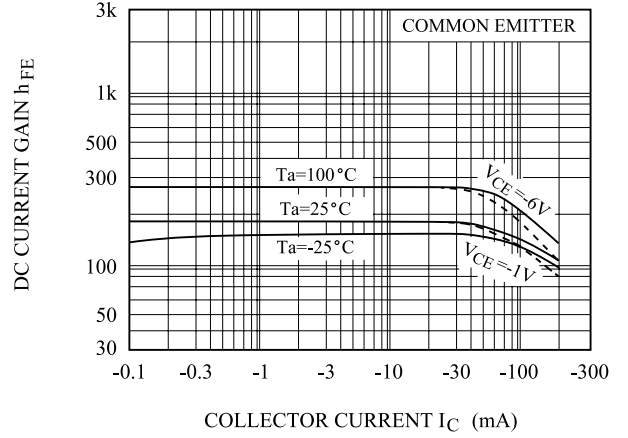


# KTA1266

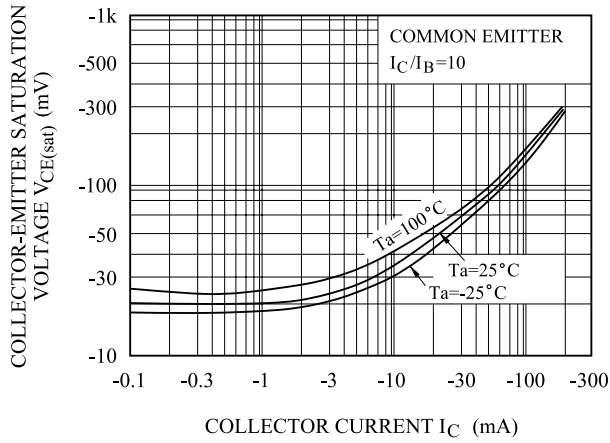
$I_C - V_{CE}$



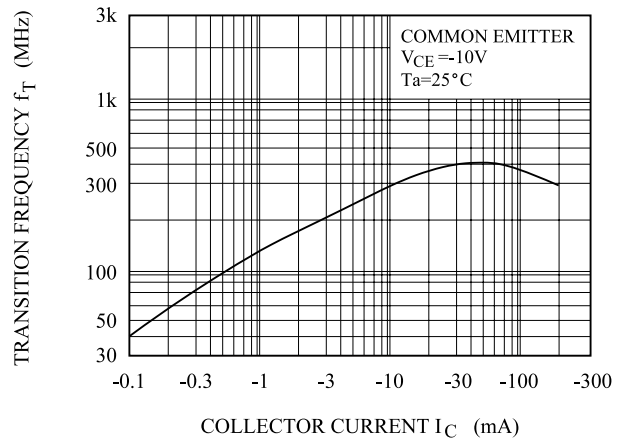
$h_{FE} - I_C$



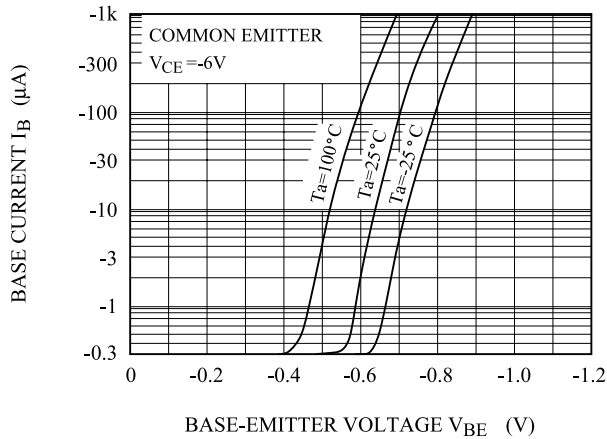
$V_{CE(sat)} - I_C$



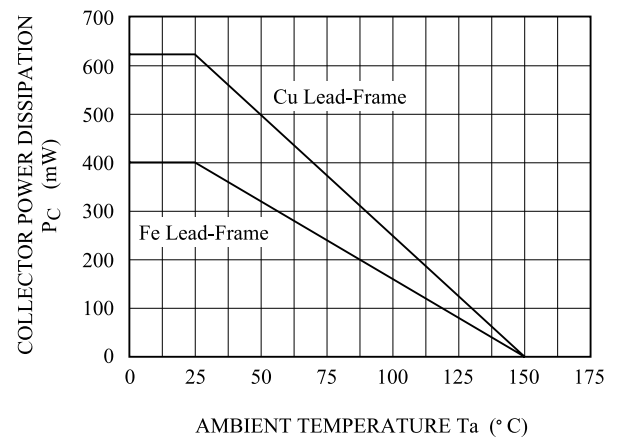
$f_T - I_C$



$I_B - V_{BE}$



$P_C - T_a$



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