

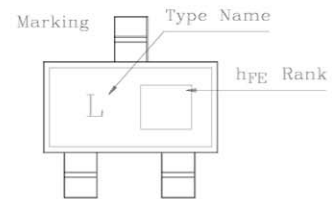
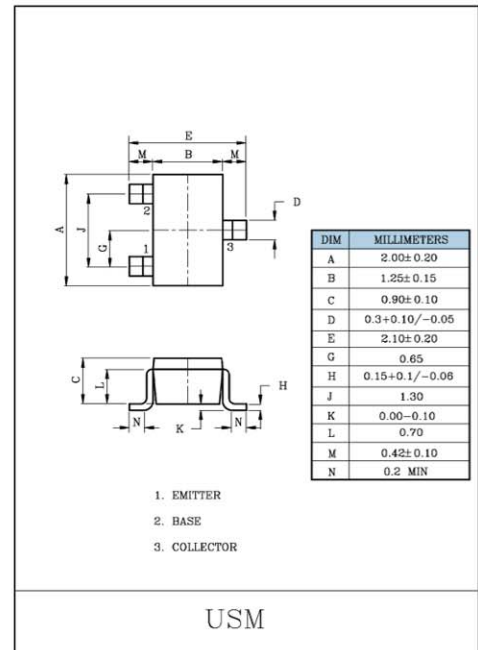
GENERAL PURPOSE APPLICATION.  
SWITCHING APPLICATION.

● FEATRES

- Excellent  $h_{FE}$  Linearity  
:  $h_{FE}(0.1mA)/h_{FE}(2mA)=0.95(Typ.)$ .
- High  $h_{FE}$  :  $h_{FE}=70\sim700$ .
- Low Noise :  $NF=1dB(Typ.)$ ,  $10dB(Max.)$ .
- Complementary to KTA2014.
- Small Package.

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

| CHARACTERISTIC              | SYMBOL    | RATING  | UNIT        |
|-----------------------------|-----------|---------|-------------|
| Collector-Base Voltage      | $V_{CBO}$ | 60      | V           |
| Collector-Emitter Voltage   | $V_{CEO}$ | 50      | V           |
| Emitter-Base Voltage        | $V_{EBO}$ | 5       | V           |
| Collector Current           | $I_C$     | 150     | mA          |
| Base Current                | $I_B$     | 30      | mA          |
| Collector Power Dissipation | $P_C$     | 100     | mW          |
| Junction Temperature        | $T_j$     | 150     | $^{\circ}C$ |
| Storage Temperature Range   | $T_{sig}$ | -55~150 | $^{\circ}C$ |



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

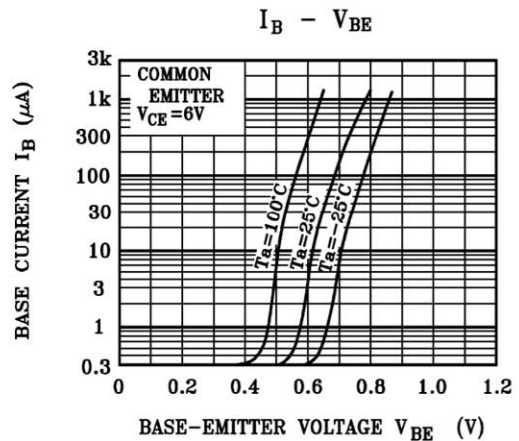
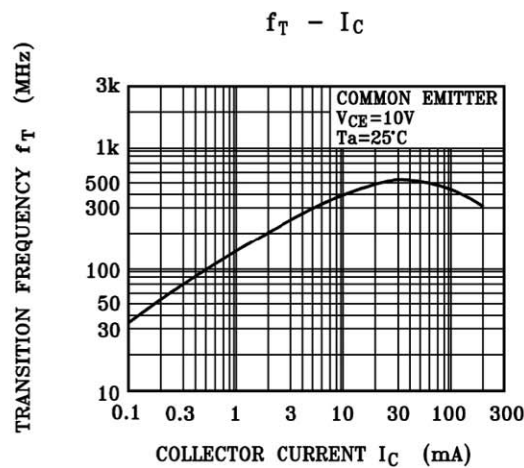
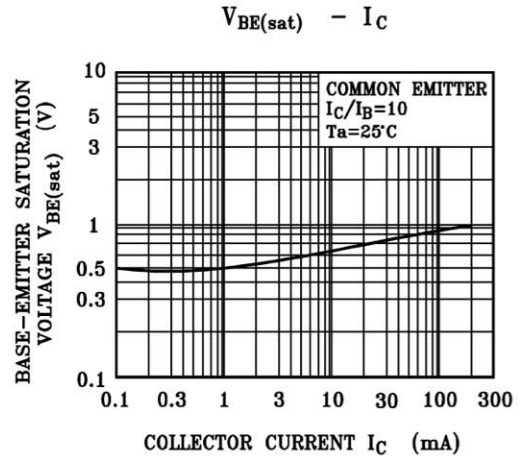
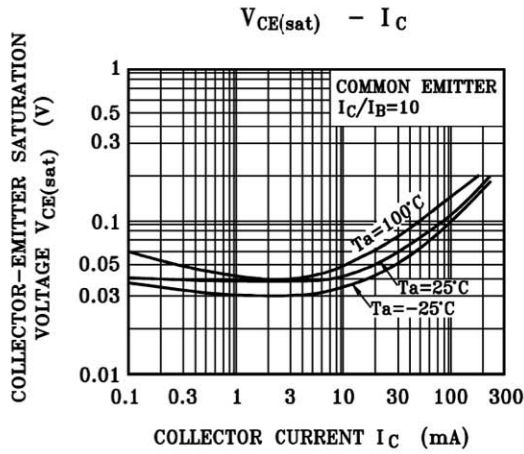
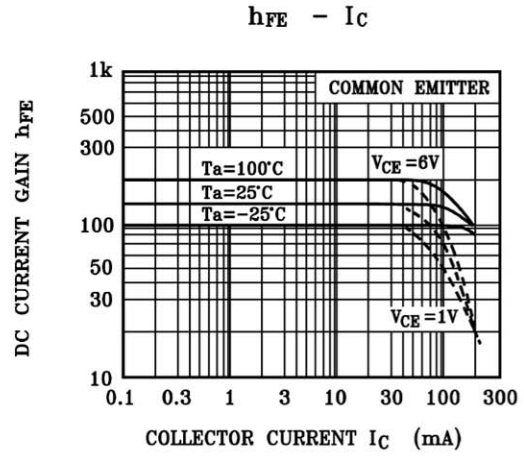
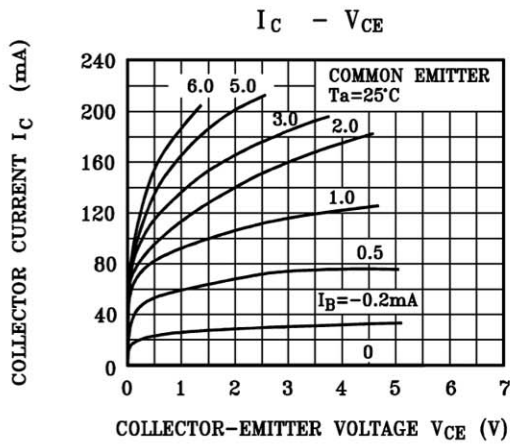
| CHARACTERISTIC                       | SYMBOL        | TEST CONDITION                                | MIN. | TYP. | MAX. | UNIT    |
|--------------------------------------|---------------|---|------|------|------|---------|
| Collector Cut-off Current            | $I_{CBO}$     | $V_{CB}=60V, I_E=0$                           | -    | -    | 0.1  | $\mu A$ |
| Emitter Cut-off Current              | $I_{EBO}$     | $V_{EB}=5V, I_C=0$                            | -    | -    | 0.1  | $\mu A$ |
| DC Current Gain (Note)               | $h_{FE}$      | $V_{CE}=6V, I_C=2mA$                          | 70   | -    | 700  |         |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=100mA, I_B=10mA$                         | -    | 0.1  | 0.25 | V       |
| Transition Frequency                 | $f_T$         | $V_{CE}=10V, I_C=1mA$                         | 80   | -    | -    | MHz     |
| Collector Output Capacitance         | $C_{ob}$      | $V_{CB}=10V, I_E=0, f=1MHz$                   | -    | 2.0  | 3.5  | pF      |
| Noise Figure                         | NF            | $V_{CE}=6V, I_C=0.1mA, f=1kHz, R_g=10k\Omega$ | -    | 1.0  | 10   | dB      |

Note :  $h_{FE}$  Classification O(2):70~140, Y(4):120~240, GR(6):200~400, BL(8):350~700

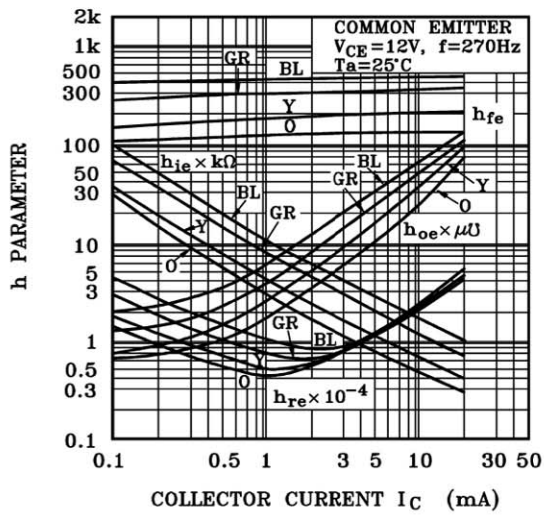
SK MAKE CONSCIOUS PRODUCT

CONSCIOUS PRODUCTS BEGIN WITH CONSCIOUS PEOPLE

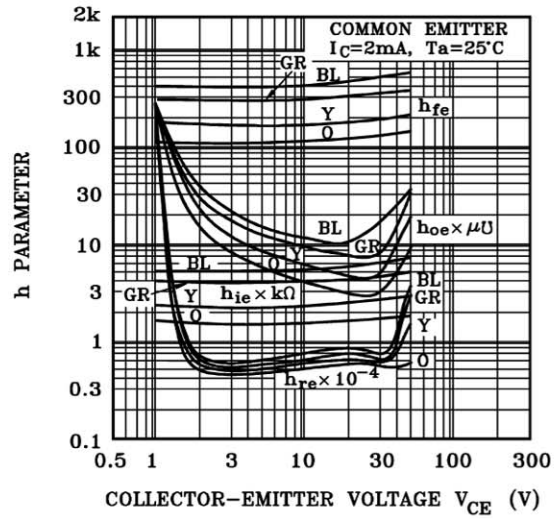




**h PARAMETER -  $I_C$**



**h PARAMETER -  $V_{CE}$**



**$P_C - T_a$**

