

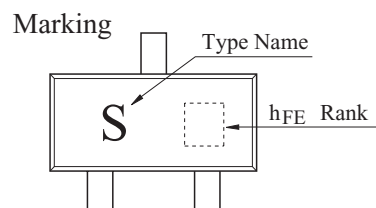
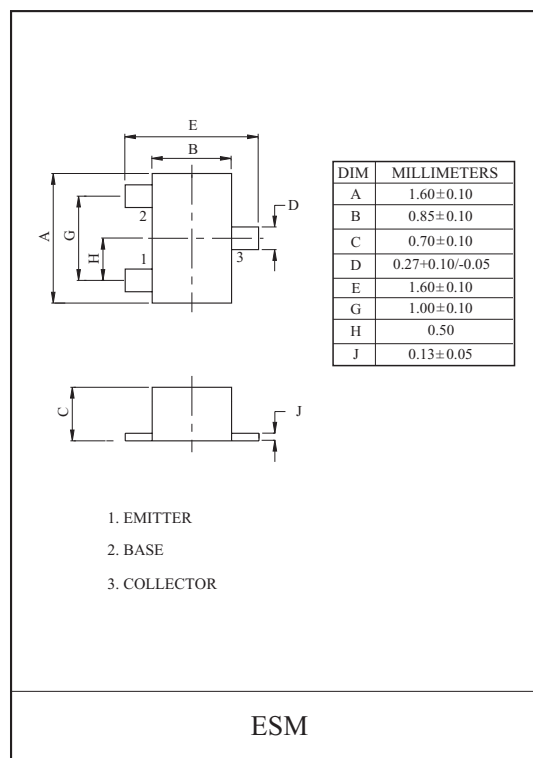
GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Excellent h_{FE} Linearity
: $h_{FE}(0.1mA)/h_{FE}(2mA)=0.95(Typ.)$.
- Low Noise : $NF=1dB(Typ.)$, $10dB(Max.)$.
- Complementary to KTC4075E.
- Small Package.

MAXIMUM RATING (Ta=25 °C)

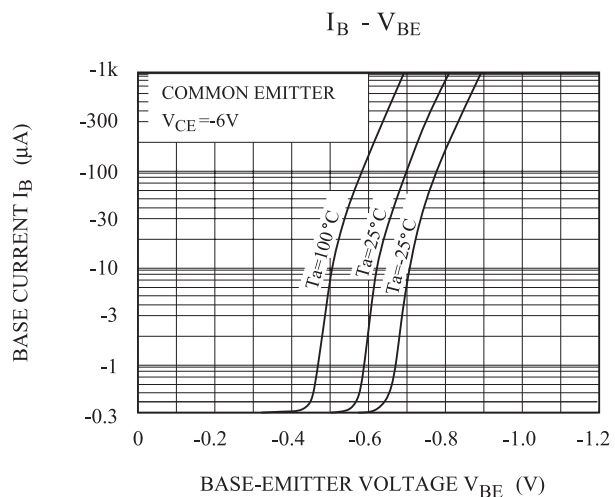
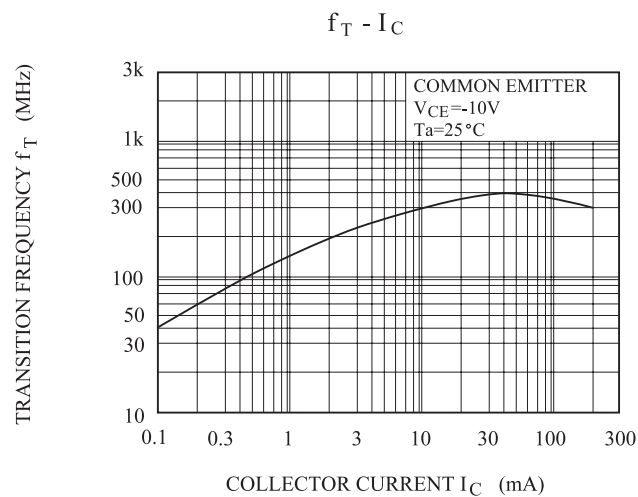
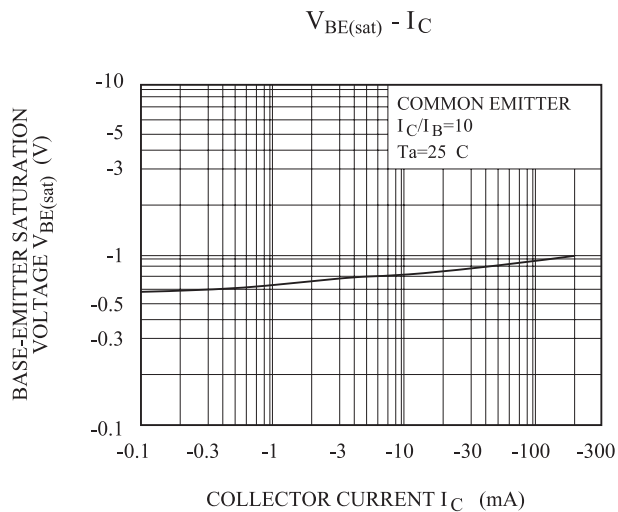
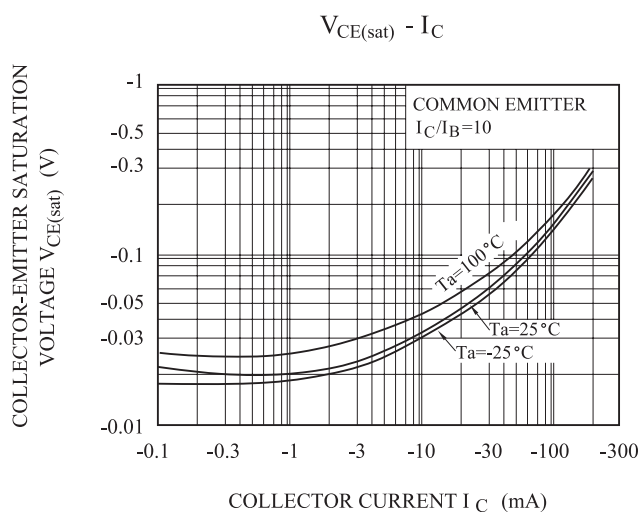
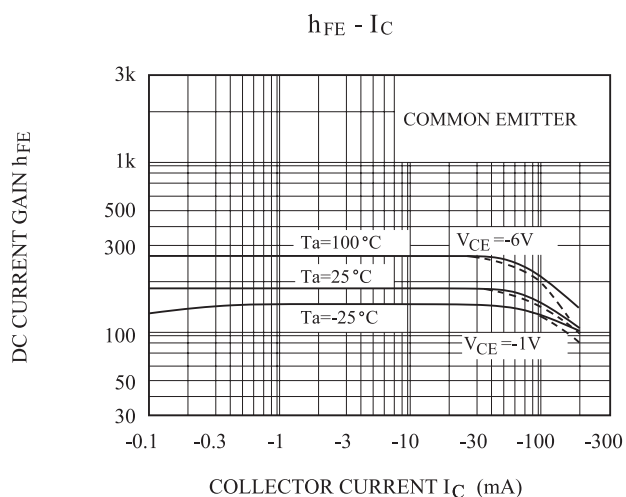
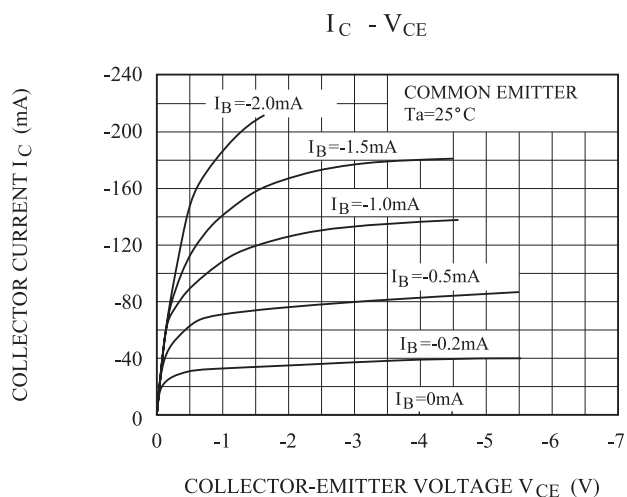
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | -50 | V |
| Collector-Emitter Voltage | V_{CEO} | -50 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -150 | mA |
| Base Current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



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| 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} (Note) | $V_{CE}=-6V, I_C=-2mA$ | 70 | - | 400 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-100mA, I_B=-10mA$ | - | -0.1 | -0.3 | V |
| Transition Frequency | f_T | $V_{CE}=-10V, I_C=-1mA$ | 80 | - | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10V, I_E=0, f=1MHz$ | - | 4 | 7 | 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



KTA2014E

