

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

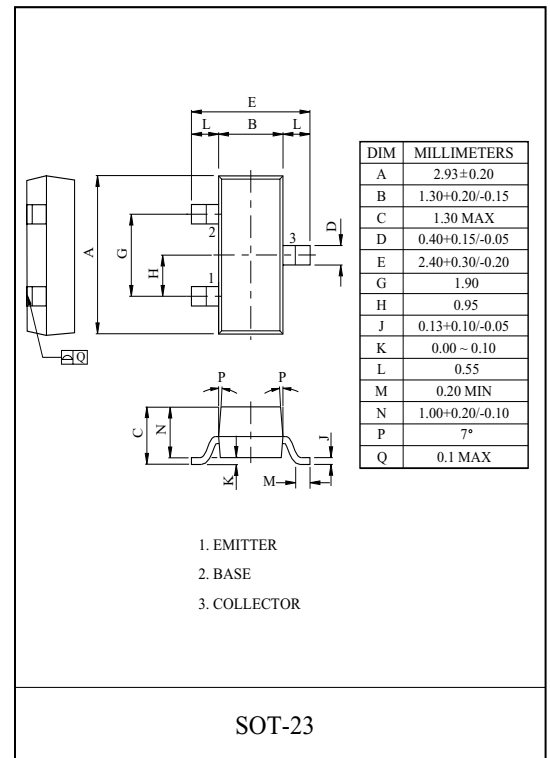
FEATURES

- Excellent h_{FE} Linearity.
- Complementary to KTC9013S.

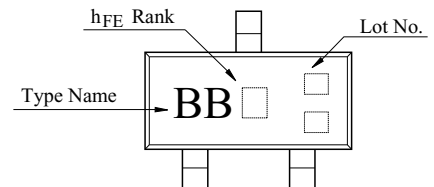
MAXIMUM RATING (Ta=25)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | -40 | V |
| Collector-Emitter Voltage | V_{CEO} | -30 | 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^* | 350 | mW |
| Junction Temperature | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |

* P_C : Package Mounted On 99.5% Alumina (10 × 8 × 0.6mm)



Marking

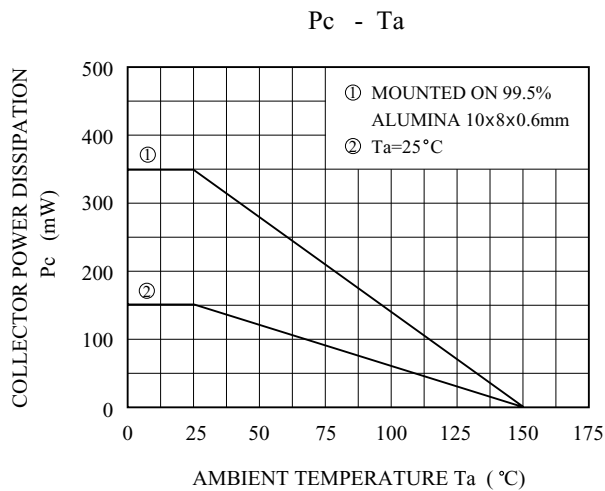
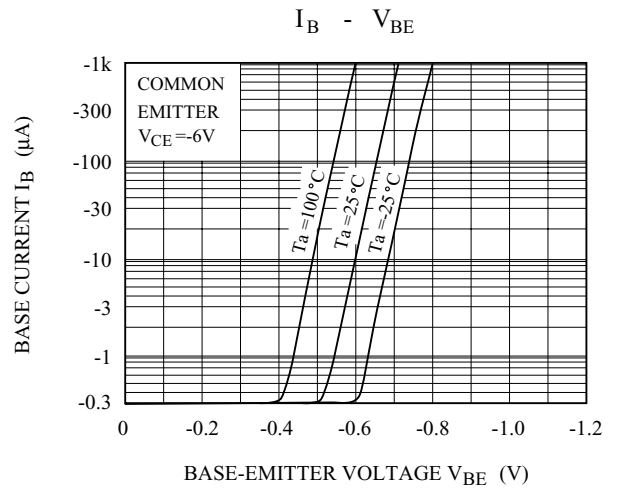
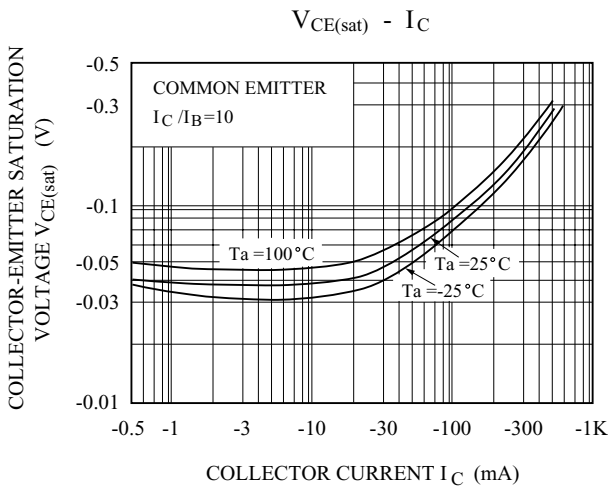
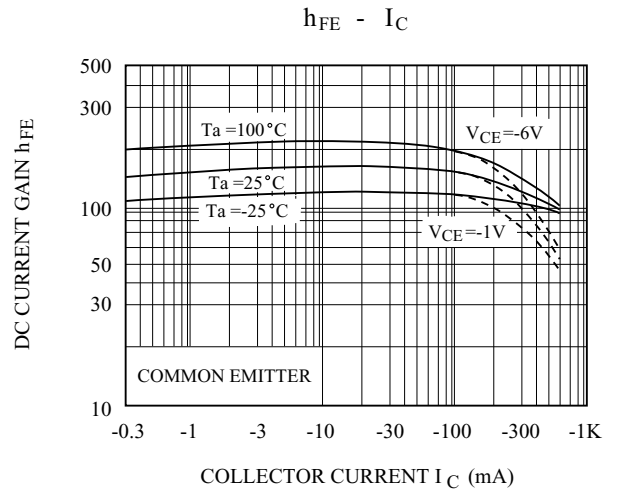
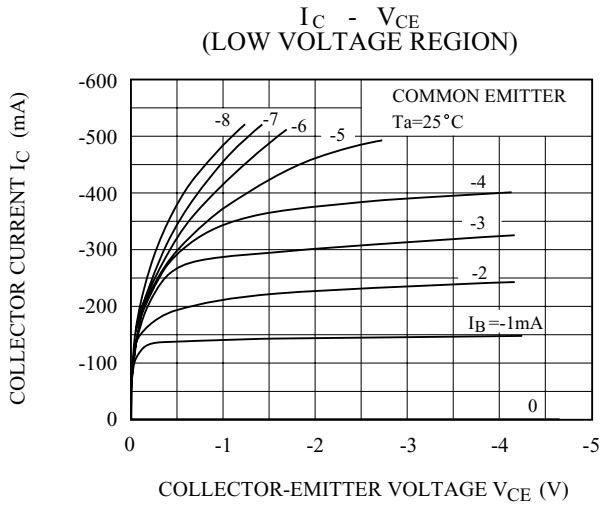


ELECTRICAL CHARACTERISTICS (Ta=25)

| 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} (Note) | $V_{CE}=-1V, I_C=-50mA$ | 96 | - | 246 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-100mA, I_B=-10mA$ | - | -0.1 | -0.25 | V |
| Base-Emitter Voltage | V_{BE} | $I_C=-100mA, V_{CE}=-1V$ | - | -0.8 | -1.0 | V |
| Transition Frequency | f_T | $V_{CE}=-6V, I_C=-20mA, f=100MHz$ | 150 | - | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-6V, I_E=0, f=1MHz$ | - | 7.0 | - | pF |

Note : h_{FE} Classification F:96 135, G:118 166, H:144 202, I:176 246

KTC9012S



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