

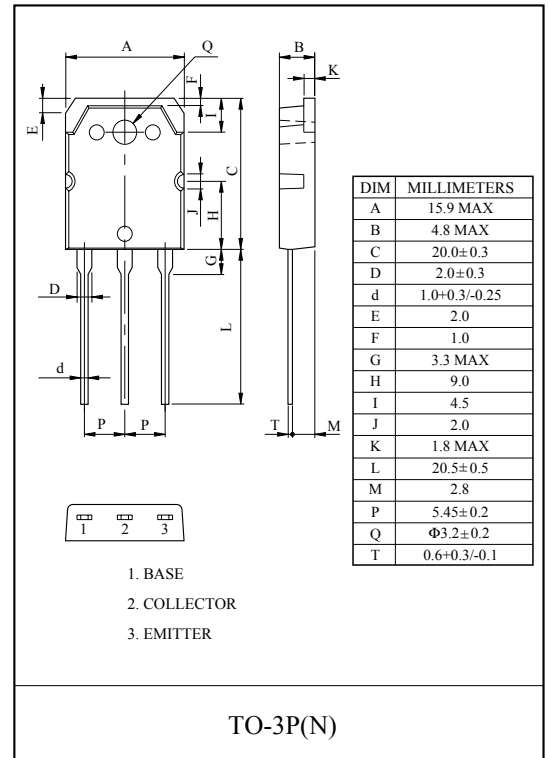
POWER AMPLIFIER APPLICATIONS.

FEATURES

- High Collector Voltage : $V_{CE0}=-230V(\text{Min.})$
- Complementary to KTC5242.
- Recommended for 80W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | -230 | V |
| Collector-Emitter Voltage | V_{CEO} | -230 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -15 | A |
| Base Current | I_B | -1.5 | A |
| Collector Power Dissipation (Tc=25°C) | P_C | 130 | W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |

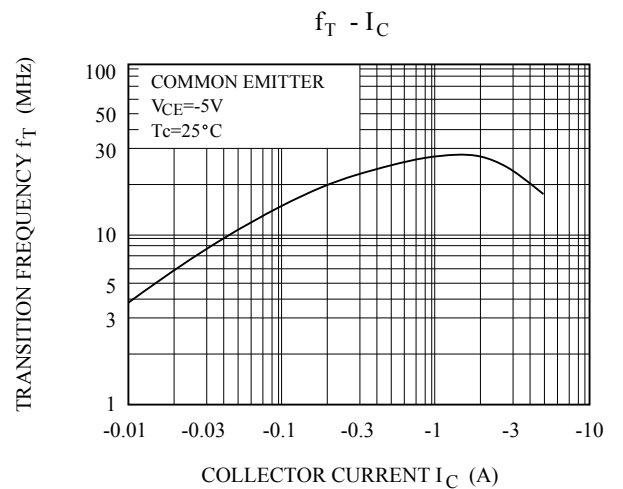
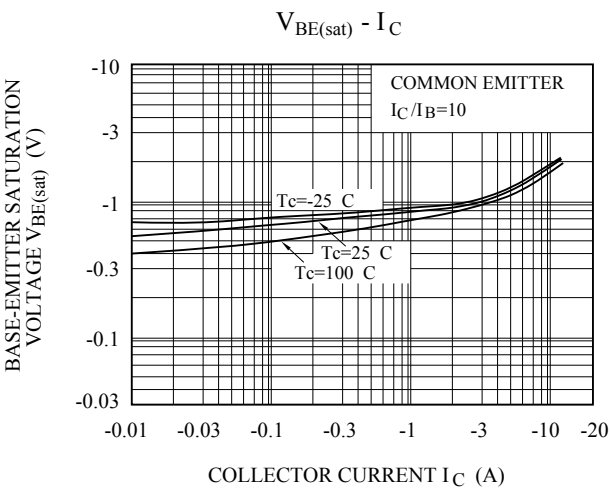
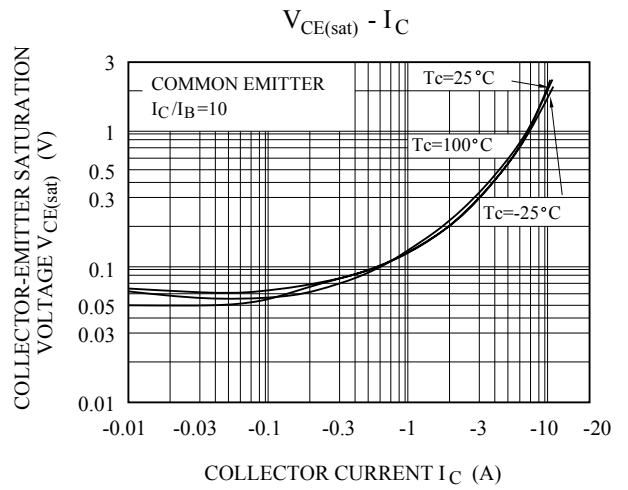
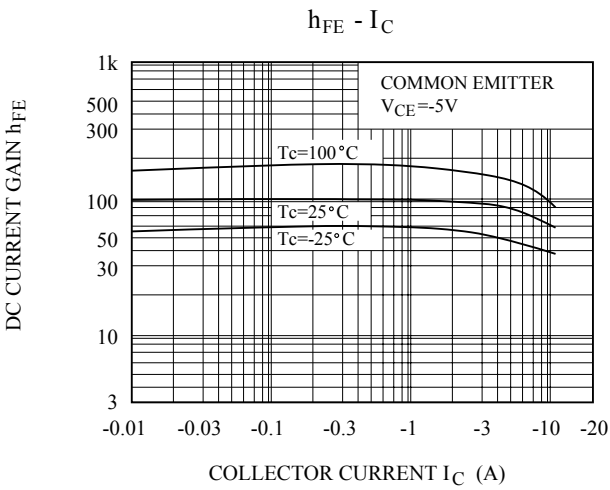
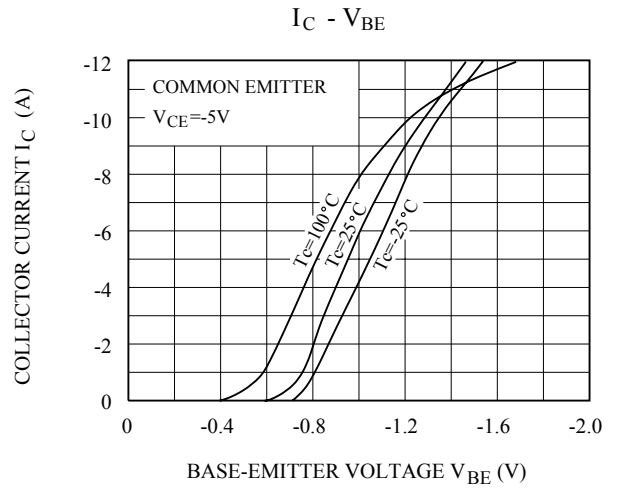
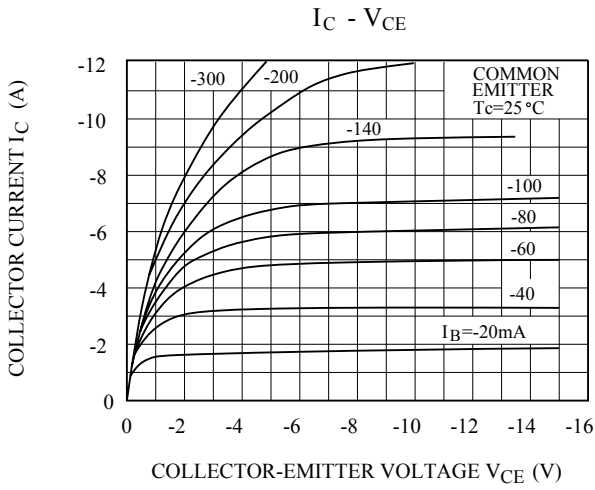


ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------|------------------------------|------|------|------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=-230V, I_E=0$ | - | - | -5.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5V, I_C=0$ | - | - | -5.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=-50mA, I_B=0$ | -230 | - | - | V |
| DC Current Gain | $h_{FE}(1)$ (Note) | $V_{CE}=-5V, I_C=-1A$ | 55 | - | 160 | |
| | $h_{FE}(2)$ | $V_{CE}=-5V, I_C=-7A$ | 35 | 60 | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-8A, I_B=-0.8A$ | - | -1.5 | -3.0 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=-5V, I_C=-7A$ | - | -1.0 | -1.5 | V |
| Transition Frequency | f_T | $V_{CE}=-5V, I_C=-1A$ | - | 30 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10V, I_E=0, f=1MHz$ | - | 360 | - | pF |

Note : h_{FE} Classification R:55 ~ 110 , O:80 ~ 160

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