

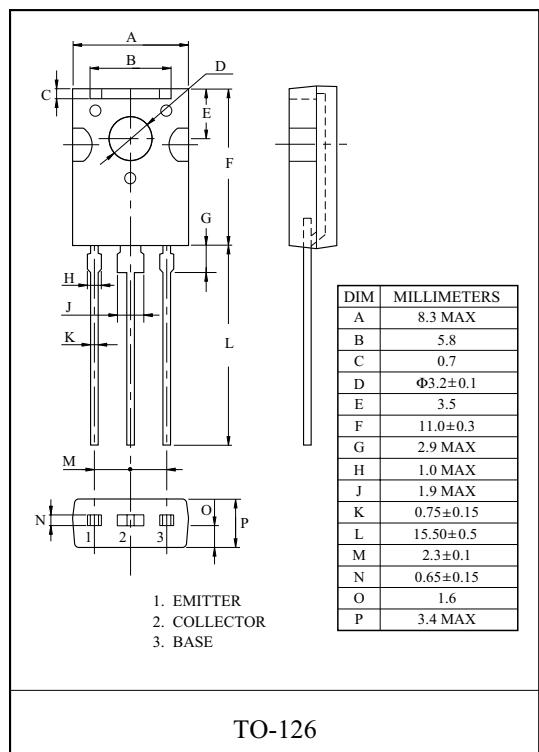
LOW FREQUENCY POWER AMP,
MEDIUM SPEED SWITCHING APPLICATIONS

FEATURES

- High breakdown voltage V_{CEO} 120V, high current 1A.
- Low saturation voltage and good linearity of h_{FE} .
- Complementary to KTB631K.

MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|-----------------------------|----------|-----------|-----------|------|
| Collector-Base Voltage | | V_{CBO} | 120 | V |
| Collector-Emitter Voltage | | V_{CEO} | 120 | V |
| Emitter-Base Voltage | | V_{EBO} | 5 | V |
| Collector Current | | I_C | 1 | A |
| | | I_{CP} | 2 | |
| Collector Power Dissipation | Ta=25 °C | P_C | 1.5 | W |
| | Tc=25 °C | | 8 | |
| Junction Temperature | | T_j | 150 | °C |
| Storage Temperature Range | | T_{stg} | -55 ~ 150 | °C |

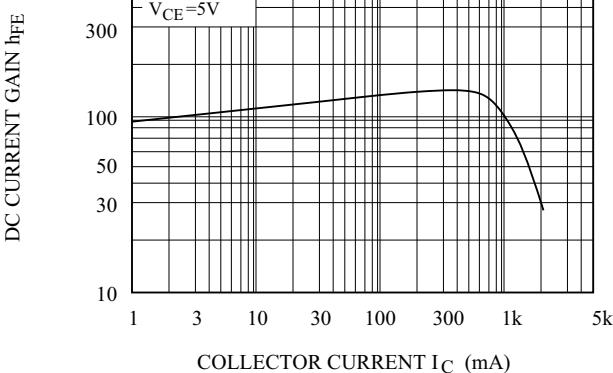
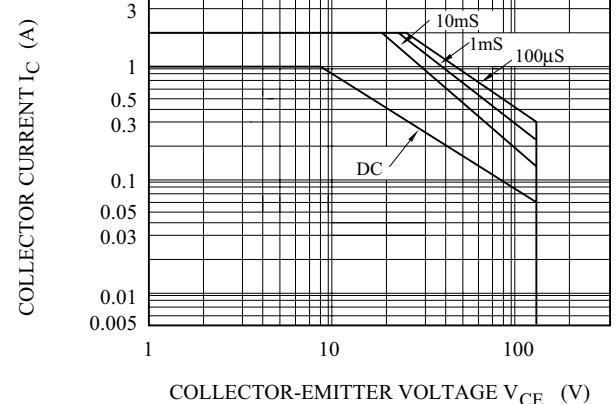
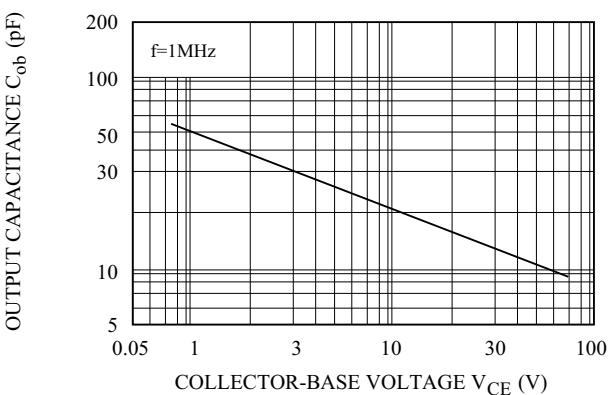
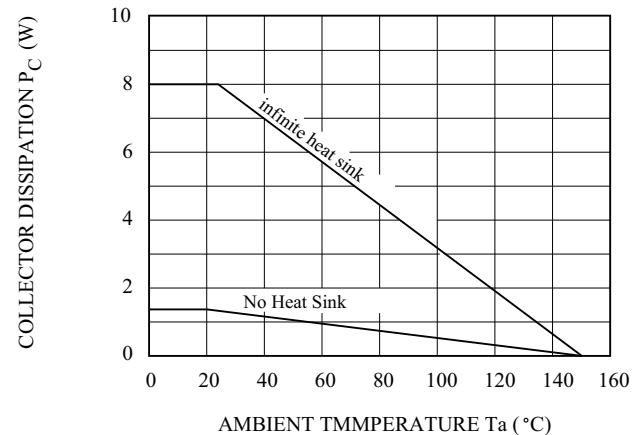
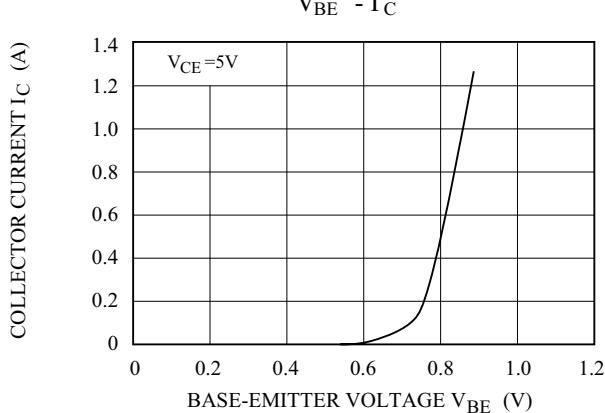
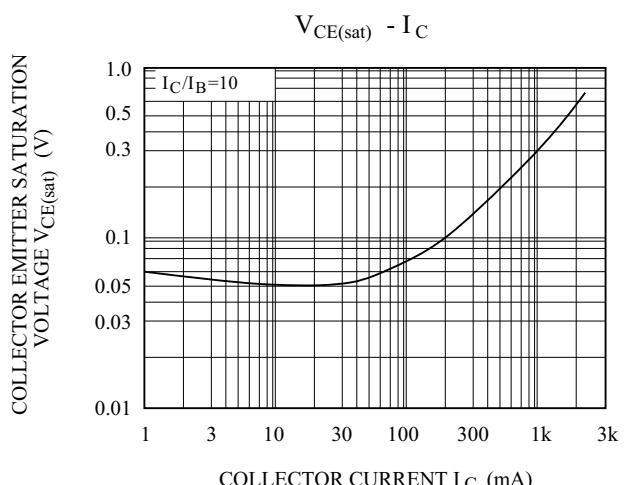
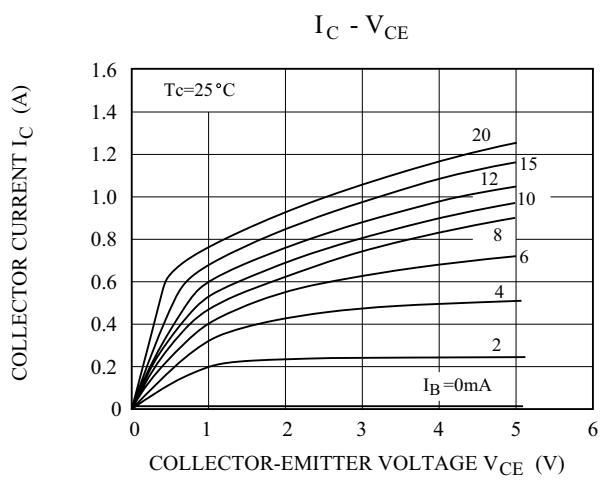


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC | | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------------------|---------------|-----------------------------|------|------|------|---------|
| Collector Cut of Current | | I_{CBO} | $V_{CB}=50V, I_E=0$ | - | - | 1 | μA |
| Emitter Cut of Current | | I_{EBO} | $V_{EB}=4V, I_C=0$ | - | - | 1 | μA |
| Collector-Base Breakdown Voltage | | $V_{(BR)CBO}$ | $I_C=10\mu A, I_E=0$ | 120 | - | - | V |
| Collector-Emitter Breakdown Voltage | | $V_{(BR)CEO}$ | $I_C=1mA, I_B=0$ | 120 | - | - | V |
| Emitter-Base Breakdown Voltage | | $V_{(BR)EBO}$ | $I_E=10\mu A, I_C=0$ | 5 | - | - | V |
| DC Current Gain | h _{FE} (1) Note | | $V_{CE}=5V, I_C=50mA$ | 100 | - | 320 | |
| | h _{FE} (2) | | $V_{CE}=5V, I_C=500mA$ | 20 | - | - | |
| Gain Bandwidth Product | | f_T | $V_{CE}=10V, I_C=50mA$ | - | 130 | - | MHz |
| Output Capacitance | | C_{ob} | $V_{CB}=10V, f=1MHz, I_E=0$ | - | 20 | - | pF |
| Collector-Emitter Saturation Voltage | | $V_{CE(sat)}$ | $I_C=500mA, I_B=50mA$ | - | 0.15 | 0.4 | V |
| Base-Emitter Saturation Voltage | | $V_{BE(sat)}$ | $I_C=500mA, I_B=50mA$ | - | 0.85 | 1.2 | V |
| Switching Time | Turn-on Time | t_{on} | | - | 100 | - | nS |
| | Turn-off Time | t_{off} | | - | 500 | - | |
| | Storage Time | t_{stg} | | - | 700 | - | |

Note : h_{FE}(1) Classification Y:100 ~ 200, GR:160 ~ 320

KTD600K



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