

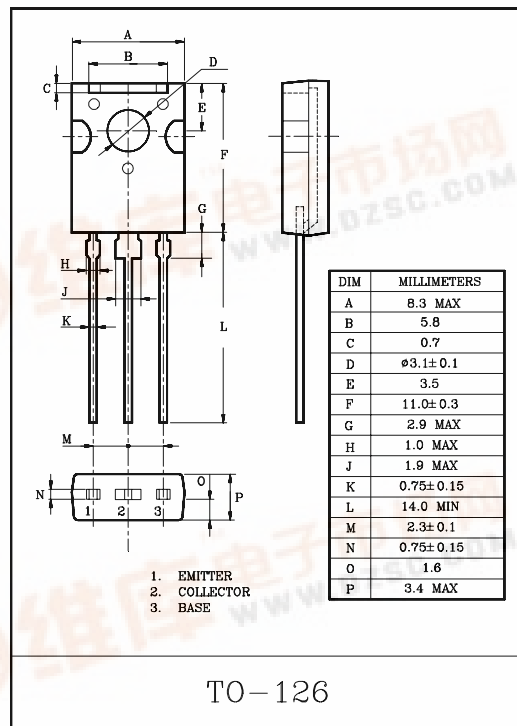
HIGH-DEFINITION CRT DISPLAY
VIDEO OUTPUT APPLICATION.

FEATURES

- High Voltage : $V_{CE0}=200V$.
- High Transition Frequency : $f_T=150MHz(Typ.)$.
- Low Collector Output Capacitance : $C_{ob}=1.7pF(Typ.)$.

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

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|-----------------------------|------------------|-----------|-----------|------------|
| Collector-Base Voltage | | V_{CBO} | 200 | V |
| Collector-Emitter Voltage | | V_{CEO} | 200 | V |
| Emitter-Base Voltage | | V_{EBO} | 5 | V |
| Collector Current | DC | I_C | 100 | mA |
| | Pulse | I_{cp} | 200 | |
| Collector Power Dissipation | $T_a=25^\circ C$ | P_C | 1.5 | W |
| | $T_c=25^\circ C$ | | 5 | |
| Junction Temperature | | T_j | 150 | $^\circ C$ |
| Storage Temperature Range | | T_{stg} | -55 ~ 150 | $^\circ C$ |

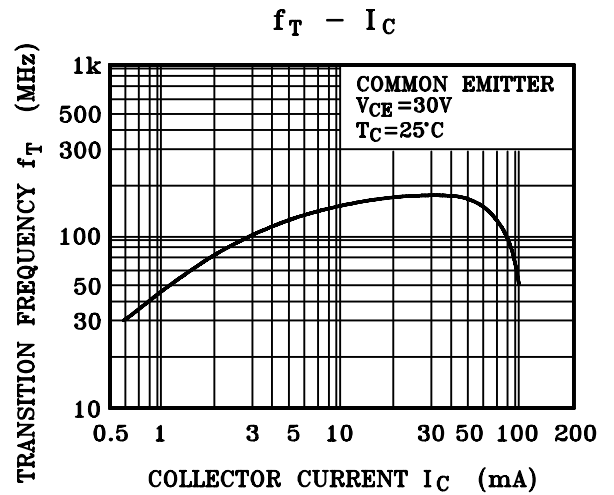
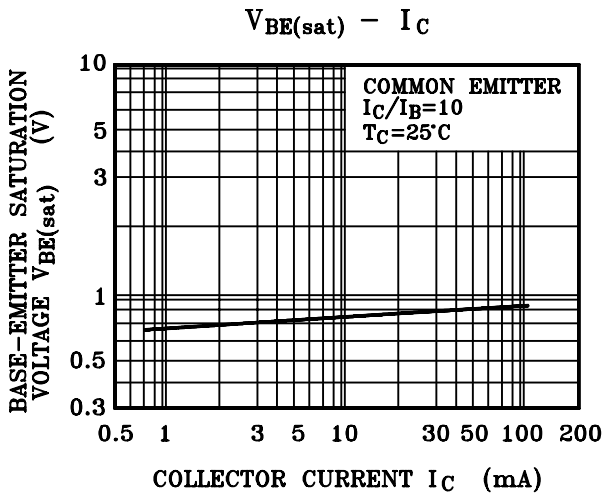
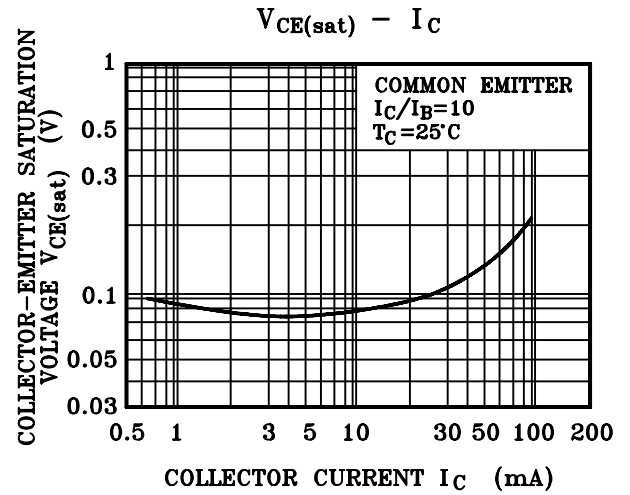
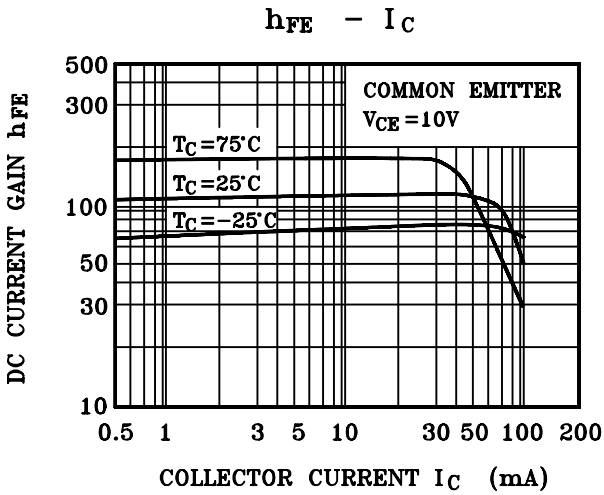
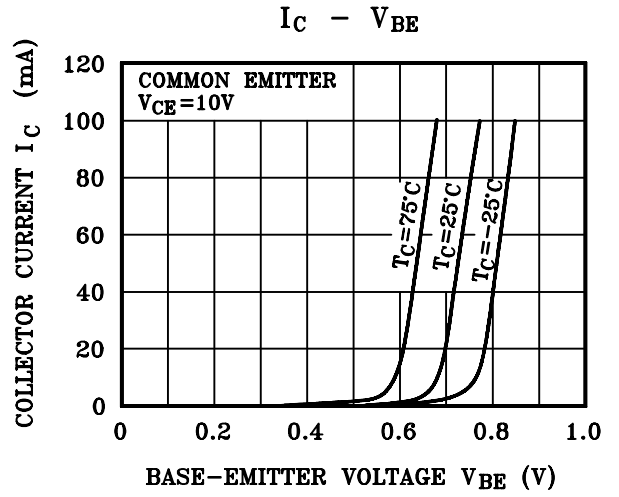
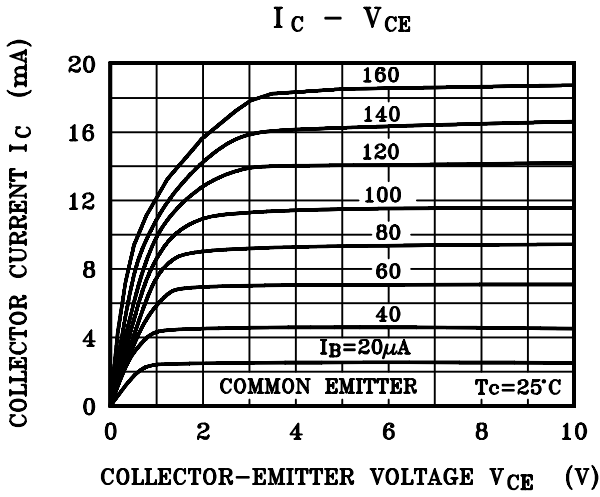


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|------------------------|------|------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=150V, I_E=0$ | - | - | 0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=4V, I_C=0$ | - | - | 0.1 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=1mA, I_B=0$ | 200 | - | - | V |
| DC Current Gain | h_{FE} | $V_{CE}=5V, I_C=10mA$ | 70 | - | 240 | - |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=20mA, I_B=2mA$ | - | - | 0.6 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=20mA, I_B=2mA$ | - | - | 1.0 | V |
| Transition Frequency | f_T | $V_{CE}=30V, I_C=10mA$ | - | 150 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=30V, f=1MHz$ | - | 1.7 | - | pF |
| Reverse Transfer Capacitance | C_{re} | $V_{CB}=30V, f=1MHz$ | - | 1.2 | - | pF |

Note : h_{FE} Classification O:70~140 , Y:120~240

KTC3502



KTC3502

