

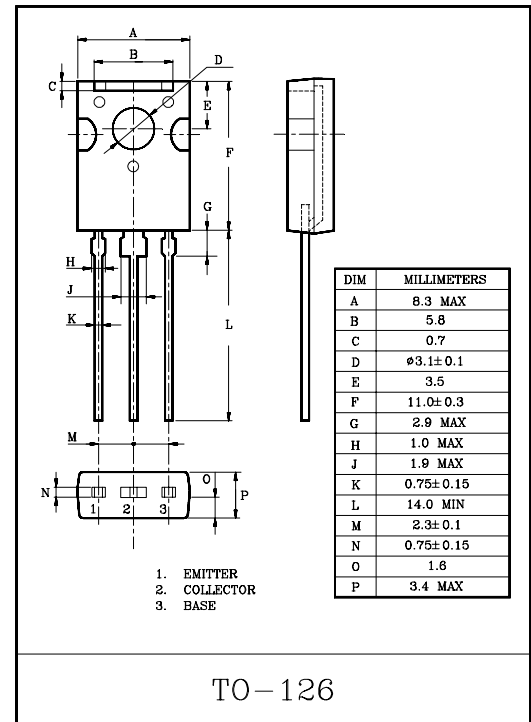
COLOR TV CHROMA OUTPUT APPLICATION.
COLOR TV HORIZONTAL DRIVE APPLICATION.

FEAUTRES

- High Voltage : $V_{CEO}=300V$.
- Small Collector Output Capacitance : $C_{ob}=4.0pF(Max.)$.

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

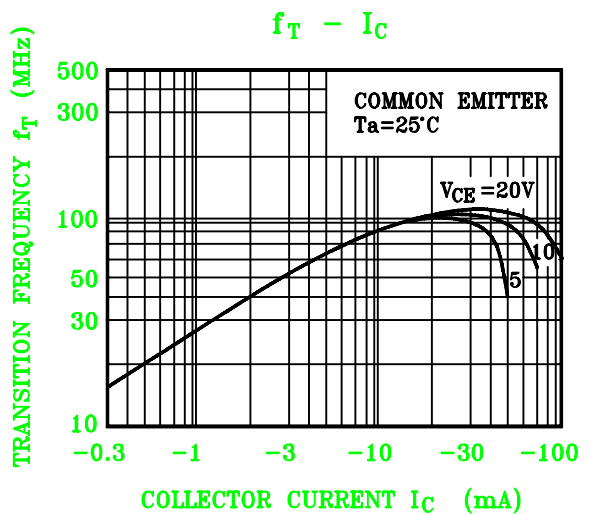
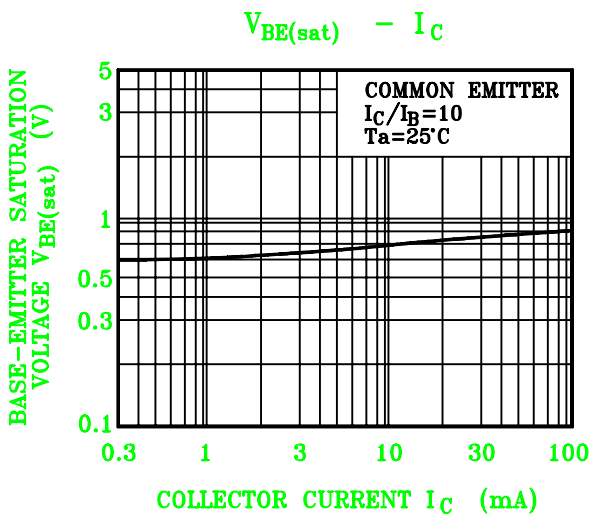
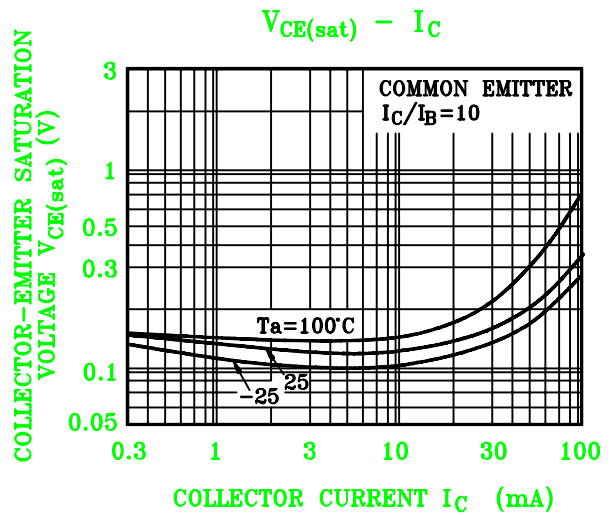
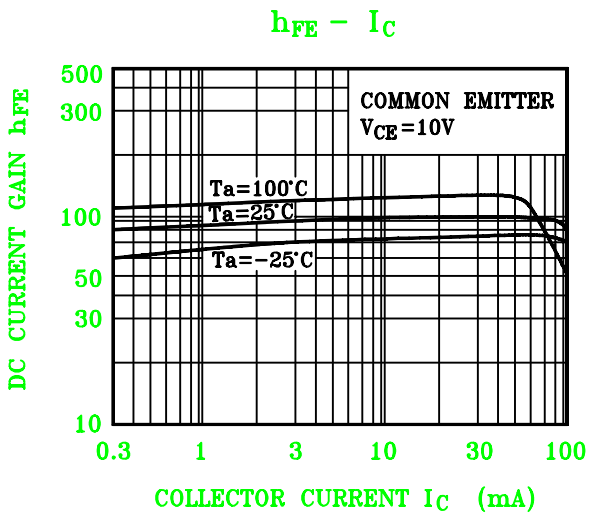
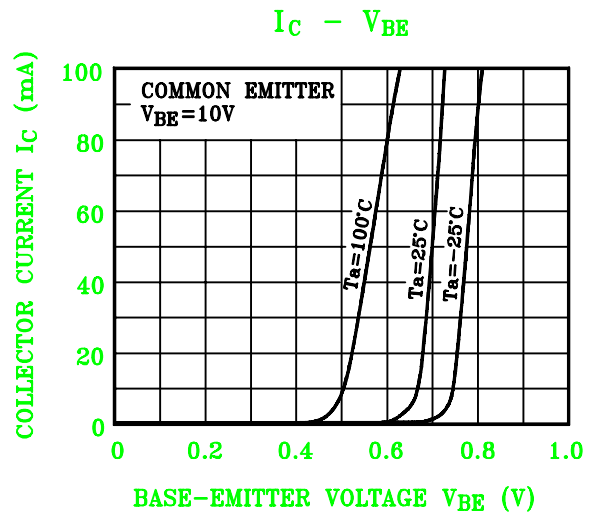
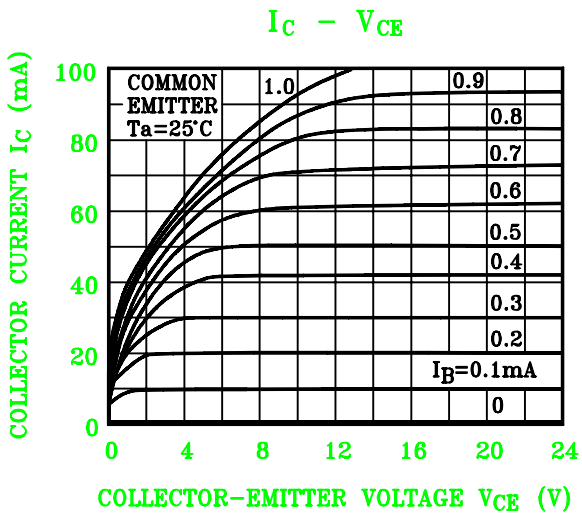
| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|-------------|
| Collector-Base Voltage | V_{CBO} | 300 | V |
| Collector-Emitter Voltage | V_{CEO} | 300 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 100 | mA |
| Base Current | I_B | 20 | mA |
| Collector Power Dissipation | P_C | 1.5 | W |
| 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} | $V_{CB}=240V, I_E=0$ | - | - | 1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V, I_C=0$ | - | - | 1.0 | μA |
| DC Current Gain | $h_{FE} (1)$ | $V_{CE}=10V, I_C=0.5mA$ | 20 | - | - | |
| | $h_{FE} (2)$ | $V_{CE}=10V, I_C=20mA$ | 30 | - | 200 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=10mA, I_B=1mA$ | - | - | 1.0 | V |
| Transition Frequency | f_T | $V_{CE}=20V, I_C=20mA$ | 75 | 95 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=20V, I_E=0, f=1MHz$ | - | - | 4.0 | pF |

KTC2801



KTC2801

