

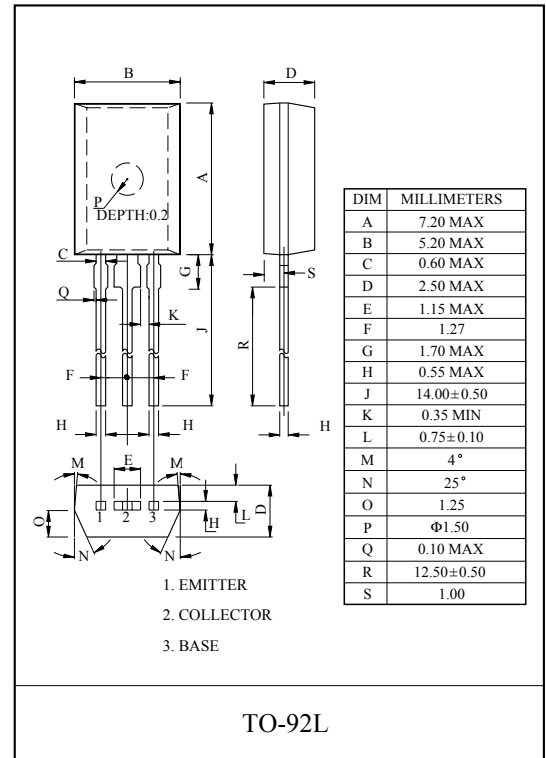
COLOR TV VERT. DEFELECTION OUTPUT APPLICATION.
COLOR TV CLASS B SOUND OUTPUT APPLICATION.

FEATURES

- High Voltage : $V_{CEO} = -160V$.
- Large Continuous Collector Current Capability.
- Complementary to KTC3228.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | -160 | V |
| Collector-Emitter Voltage | V_{CEO} | -160 | V |
| Emitter-Base Voltage | V_{EBO} | -6 | V |
| Collector Current | I_C | -1 | A |
| Base Current | I_B | -0.5 | A |
| Collector Power Dissipation | P_C | 1 | W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |



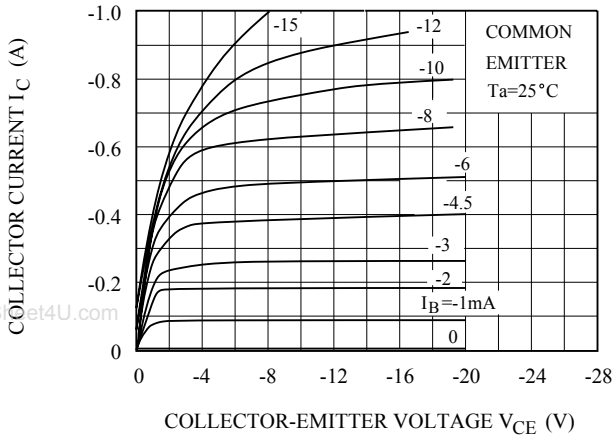
ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------|------------------------------------|-------|------|-------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -150V, I_E = 0$ | - | - | -1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -6V, I_C = 0$ | - | - | -1.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C = -10mA, I_B = 0$ | -160 | - | - | V |
| DC Current Gain | h_{FE} (Note) | $V_{CE} = -5V, I_C = -200mA$ | 60 | - | 320 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -500mA, I_B = -50mA$ | - | - | -1.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE} = -5V, I_C = -5mA$ | -0.45 | - | -0.75 | V |
| Transition Frequency | f_T | $V_{CE} = -5V, I_C = -200mA$ | 15 | 50 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB} = -10V, I_E = 0, f = 1MHz$ | - | - | 35 | pF |

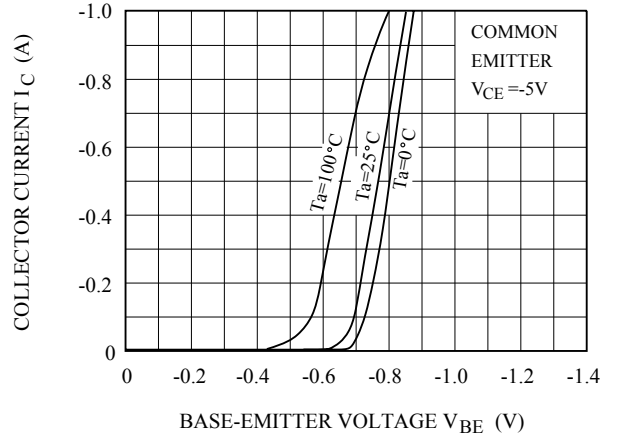
Note : h_{FE} Classification R:60 ~ 120 0:100 ~ 200, Y:160 ~ 320

KTA1275

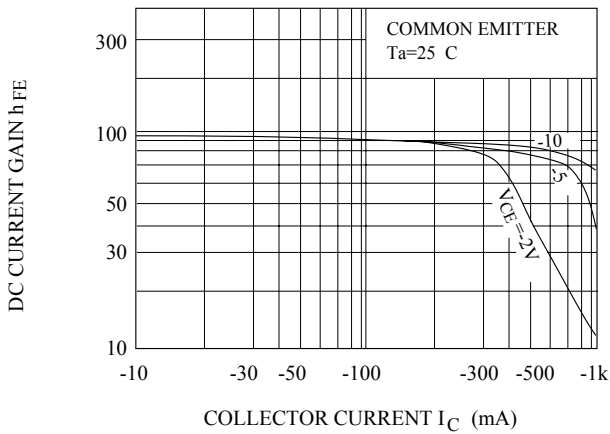
$I_C - V_{CE}$



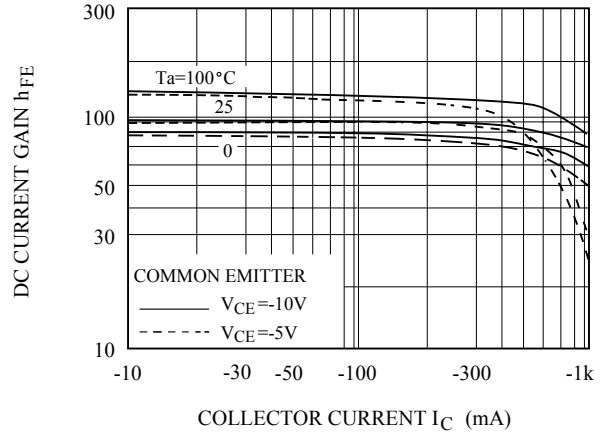
$I_C - V_{BE}$



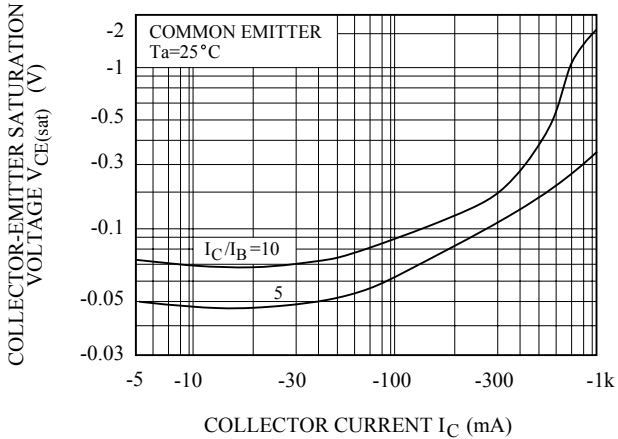
$h_{FE} - I_C$



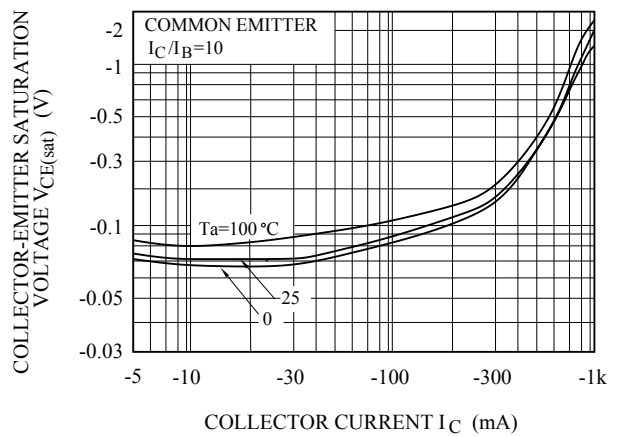
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$V_{CE(sat)} - I_C$



KTA1275

