

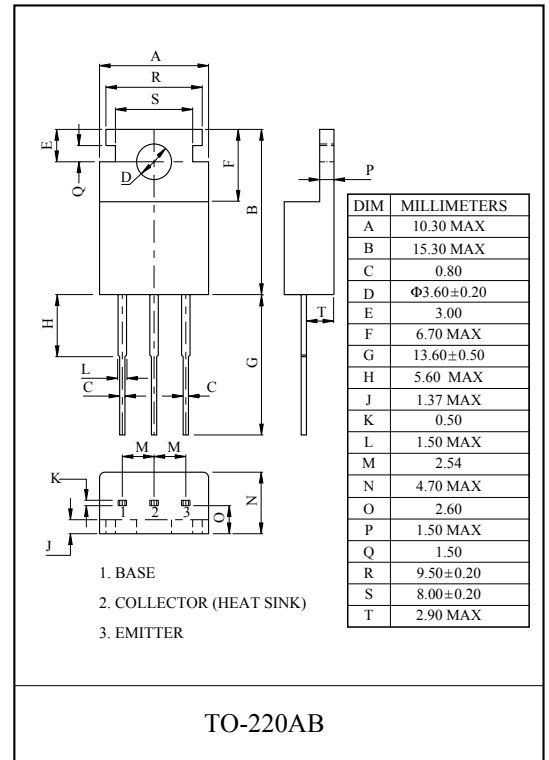
HIGH VOLTAGE APPLICATION
TV, MONITOR VERTICAL OUTPUT APPLICATION
DRIVER STAGE APPLICATION
COROR TV CLASS B SOUND OUTPUT APPLICATION

FEATURES

- High Breakdown Voltage : $V_{CEO}=-180V(\text{Min.})$
- High Transition Frequency : $f_T=50\text{MHz}(\text{Typ.})$
- High Current : $I_{C(\text{max})}=-2A$
- Complementary to KTD2161

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|---------------------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | -200 | V |
| Collector-Emitter Voltage | V_{CEO} | -180 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -2 | A |
| Base Current | I_B | -0.2 | A |
| Collector Power Dissipation (Tc=25°C) | P_C | 25 | W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |



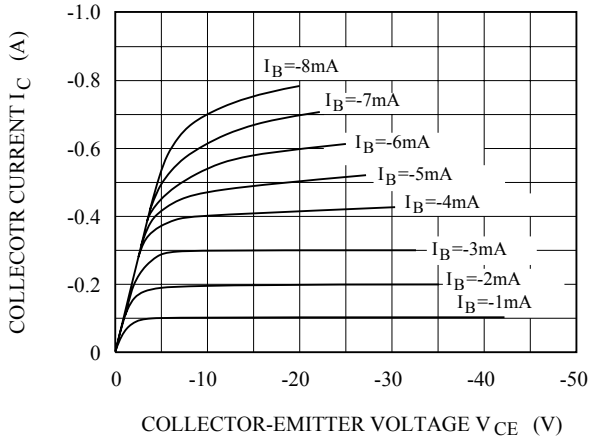
ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|----------------------|---------------------------|------|------|------|---------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=-200V, I_E=0$ | - | - | -1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5V, I_C=0$ | - | - | -1.0 | μA |
| Collector-Emitter Breakdown Voltage | V_{CEO} | $I_C=-10mA, I_B=0$ | -180 | - | - | V |
| DC Current Gain | h_{FE} | $V_{CE}=-10V, I_C=-400mA$ | 70 | - | 240 | |
| Collector-Emitter Saturation Voltage | $V_{CE(\text{sat})}$ | $I_C=-500mA, I_B=-50mA$ | - | - | -1.0 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=-5V, I_C=-500mA$ | - | - | -1.0 | V |
| Transition Frequency | f_T | $V_{CE}=-10V, I_C=-400mA$ | - | 100 | - | MHZ |

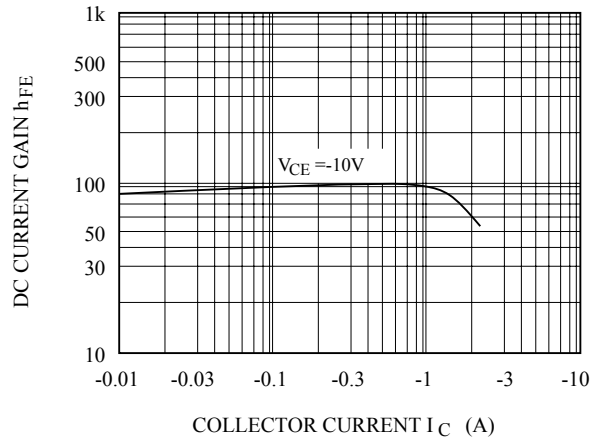
Note: h_{FE} Classification O:70 ~ 140, Y:120 ~ 240

KTB1469

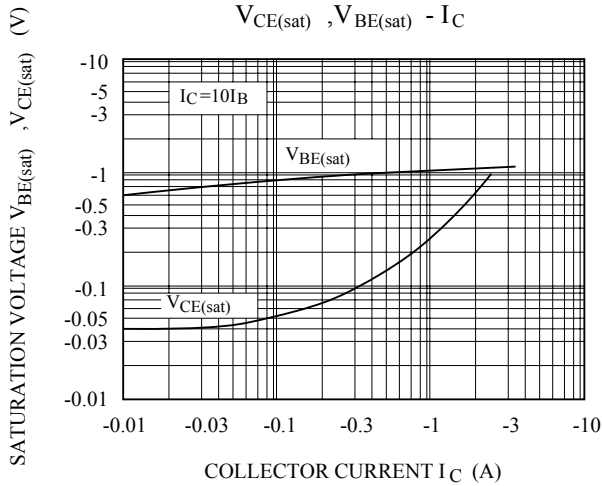
$I_C - V_{CE}$



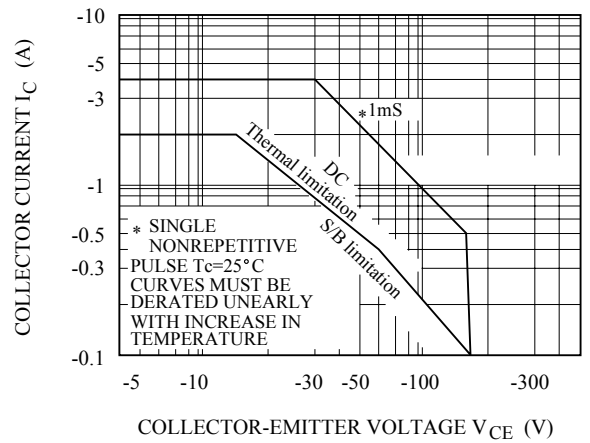
$h_{FE} - I_C$



$V_{CE(sat)}, V_{BE(sat)} - I_C$



SAFE OPERATING AREA



$P_c - T_a$

