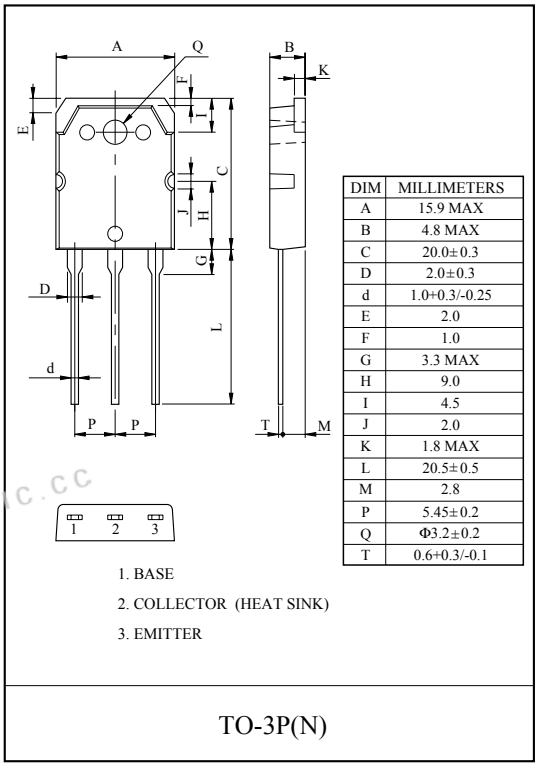
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

· Complementary to KTB817.

· Recommended for 60W Audio Frequency Amplifier Output Stage.




| DIM | MILLIMETERS |
|---|---|
| A | 15.9 MAX |
| B | 4.8 MAX |
| C | 20.0±0.3 |
| D | 2.0±0.3 |
| d | 1.0+0.3/-0.25 |
| E | 2.0 |
| F | 1.0 |
| G | 3.3 MAX |
| H | 9.0 |
| I | 4.5 |
| J | 2.0 |
| K | 1.8 MAX |
| L | 20.5±0.5 |
| M | 2.8 |
| P | 5.45±0.2 |
| Q | Φ3.2±0.2 |
| T | 0.6+0.3/-0.1 |

TO-3P(N)

MAXIMUM RATING (Ta=25℃)

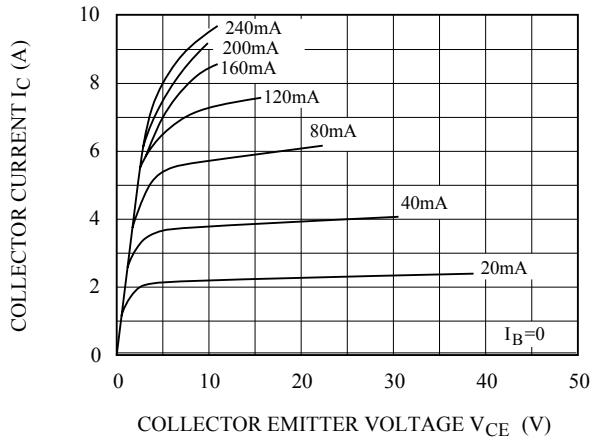
| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---|---|---|---|
| Collector-Base Voltage | | $V_{CBO}$ | 160 | V |
| Collector-Emitter Voltage | | $V_{CEO}$ | 140 | V |
| Emitter-Base Voltage | | $V_{EBO}$ | 6 | V |
| Collector Current | DC | $I_C$ | 12 | A |
| | Pulse | $I_{CP}$ | 15 | |
| Collector Power Dissipation (Tc=25℃) | | $P_C$ | 100 | W |
| Junction Temperature | | $T_j$ | 150 | ℃ |
| Storage Temperature Range | | $T_{stg}$ | -55～150 | ℃ |

ELECTRICAL CHARACTERISTICS (Ta=25℃)

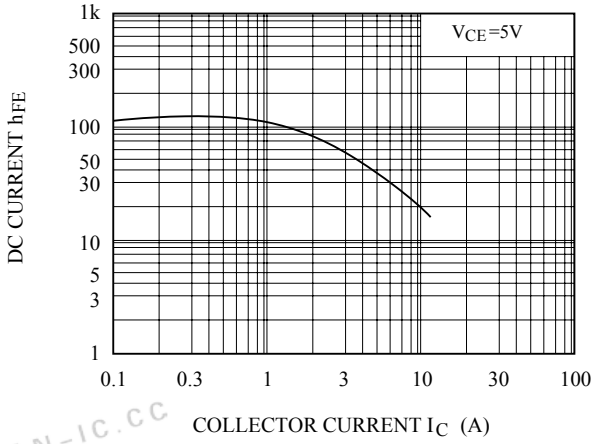
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Collector Cut-off Current | $I_{CBO}$ | $V_{CB}$=80V, $I_E$=0 | - | - | 0.1 | mA |
| Emitter Cut-off Current | $I_{EBO}$ | $V_{EB}$=4V, $I_C$=0 | - | - | 0.1 | mA |
| DC Current Gain | $h_{FE}$ (1) (Note) | $V_{CE}$=5V, $I_C$=1A | 60 | - | 200 | |
| | $h_{FE}$ 2 | $V_{CE}$=5V, $I_C$=6A | 20 | - | | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=5A, $I_B$=0.5A | - | - | 2.5 | V |
| Base-Emitter Voltage | $V_{BE(ON)}$ | $V_{CE}$=5V, $I_C$=1A | - | - | 1.5 | V |
| Transition Frequency | $f_T$ | $V_{CE}$=5V, $I_C$=1A | - | 15 | - | MHz |
| Output Capacitance | $C_{ob}$ | $V_{CB}$=10V, $I_E$=0, f=1MHz | - | 210 | - | pF |
| Turn On Time | $t_{on}$ | $V_{CC}$=20V | - | 0.26 | - | μS |
| Fall Time | $t_f$ | $I_C$=1A=10 · $I_{B1}$=-10 · $I_{B2}$ | - | 0.68 | - | |
| Storage Time | $t_{stg}$ | $R_L$=20Ω | - | 6.88 | - | |

Note : $h_{FE}$(1) Classification O:60～120, Y:100～200

$I_C$ - $V_{CE}$

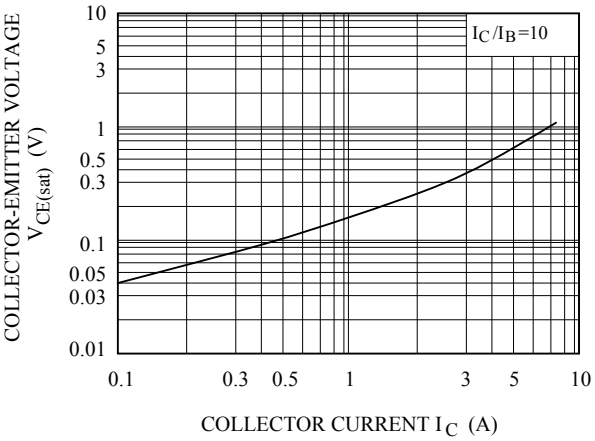



$h_{FE}$ - $I_C$

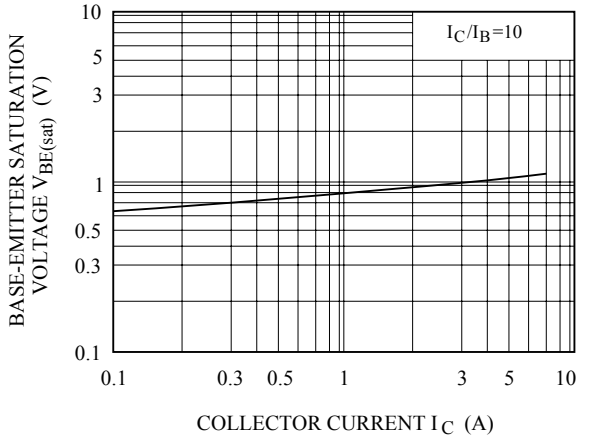




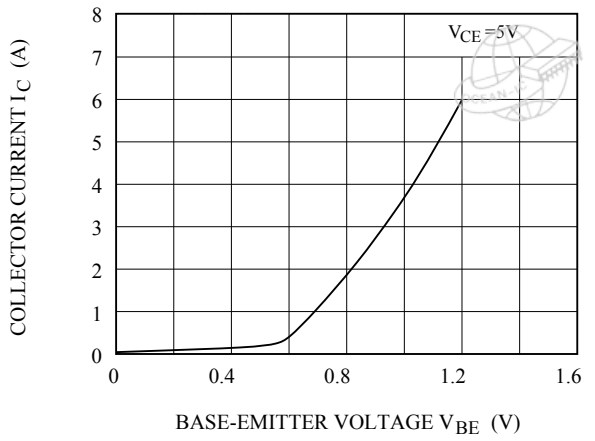

$V_{CE(sat)}$ - $I_C$




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

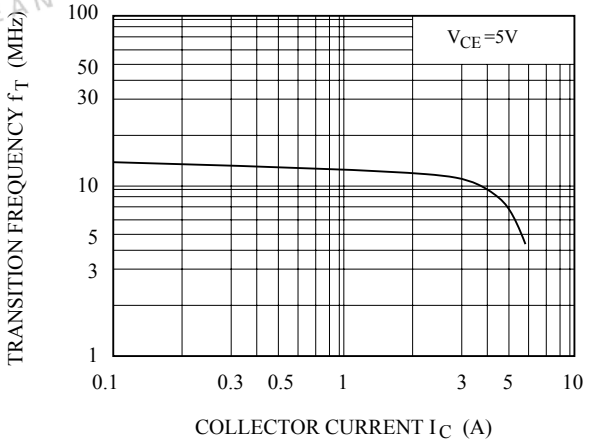



$I_C$ - $V_{BE}$

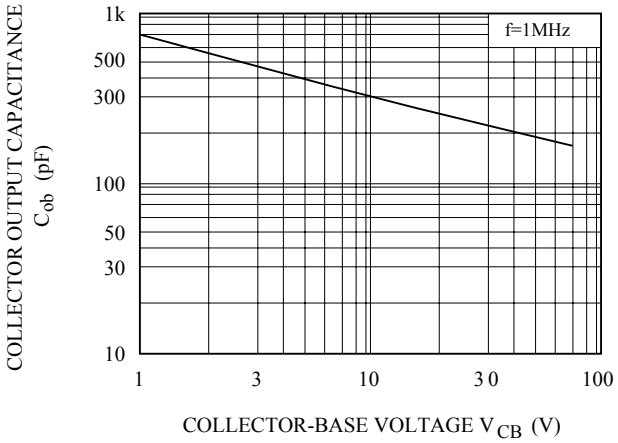





$f_T$ - $I_C$



$C_{ob}$ - $V_{CB}$




SAFE OPERATING AREA