

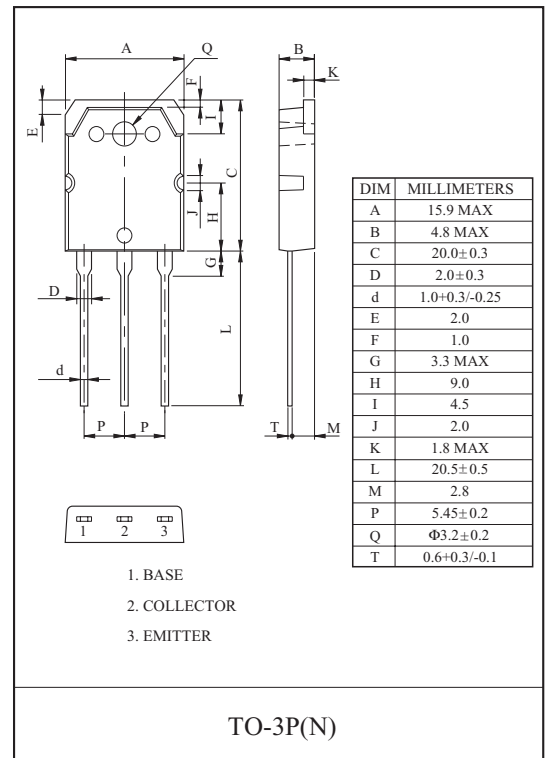
HIGH POWER AMPLIFIER APPLICATION.

FEATURES

- Complementary to KTD718.
- Recommended for 45 ~ 50W Audio Frequency Amplifier Output Stage.

MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | -120 | V |
| Collector-Emitter Voltage | V_{CEO} | -120 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -10 | A |
| Base Current | I_B | -1 | A |
| Collector Power Dissipation (Tc=25 °C) | P_C | 80 | W |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55 ~ 150 | °C |

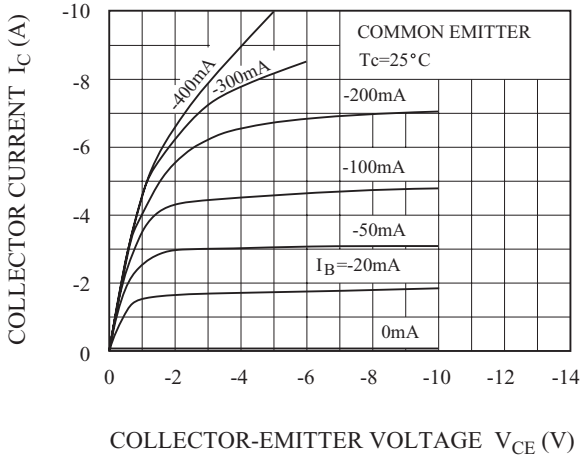


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

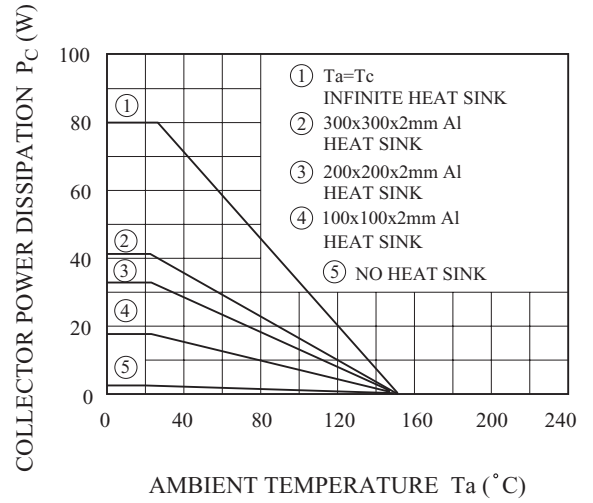
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-----------------|------------------------------|------|------|------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=-120V, I_E=0$ | - | - | -10 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5V, I_C=0$ | - | - | -10 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=-50mA, I_B=0$ | -120 | - | - | V |
| DC Current Gain | h_{FE} (Note) | $V_{CE}=-5V, I_C=-1A$ | 55 | - | 160 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-5A, I_B=-0.5A$ | - | - | -2.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=-5V, I_C=-5A$ | - | - | -1.5 | V |
| Transition Frequency | f_T | $V_{CE}=-5V, I_C=-1A$ | - | 10 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10V, I_E=0, f=1MHz$ | - | 280 | - | pF |

Note : h_{FE} Classification R:55 ~ 110, O:80 ~ 160

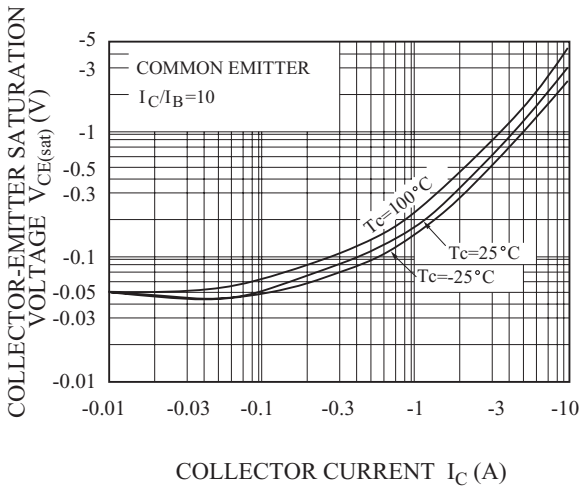
$I_C - V_{CE}$



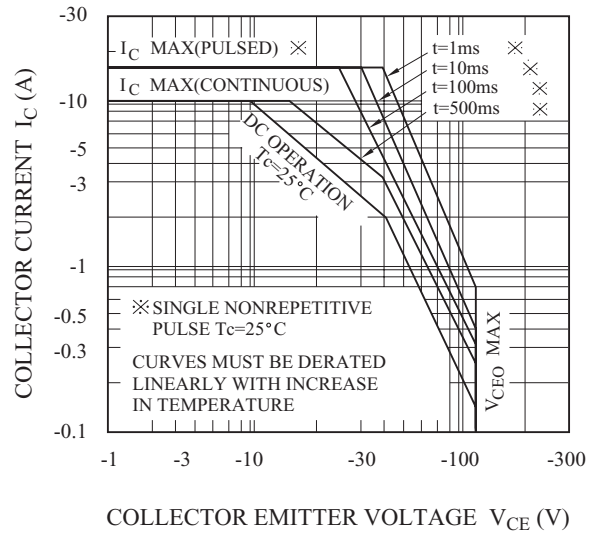
$P_c - T_a$



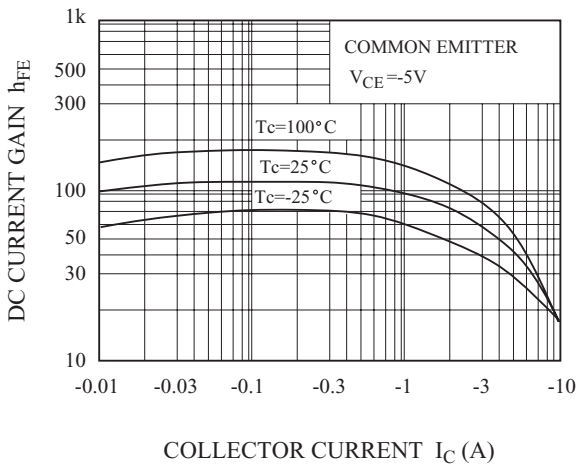
$V_{CE(sat)} - I_C$



SAFE OPERATING AREA



$h_{FE} - I_C$



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