

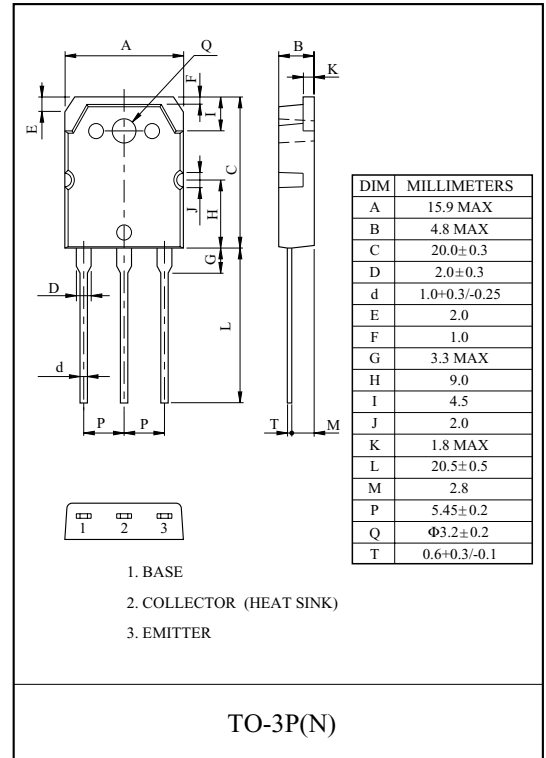
HIGH POWER AMPLIFIER
DARLINGTON APPLICATION.

FEATURES

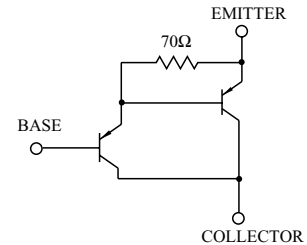
- Complementary to KTD1510
- Recommended for 60W Audio Amplifier Output Stage.

MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|--|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | -160 | V |
| Collector-Emitter Voltage | V_{CEO} | -150 | 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 | 100 | W |
| Junction Temperature | T_j | 150 | |
| Storage Temperature Range | T_{stg} | -55 150 | |

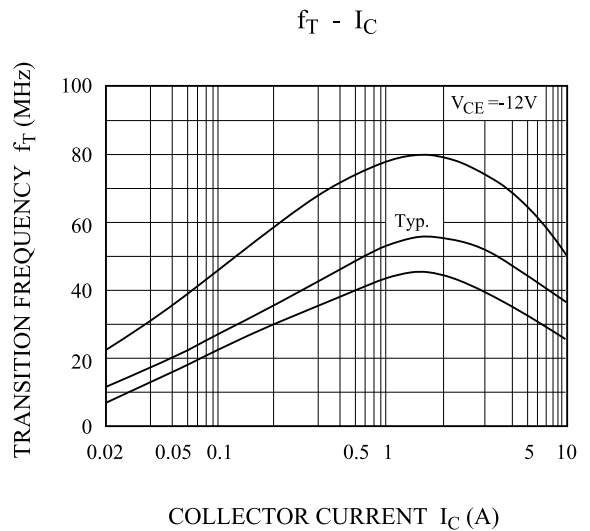
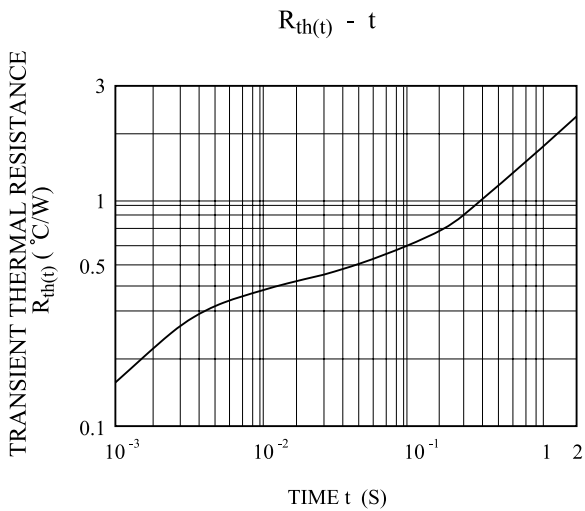
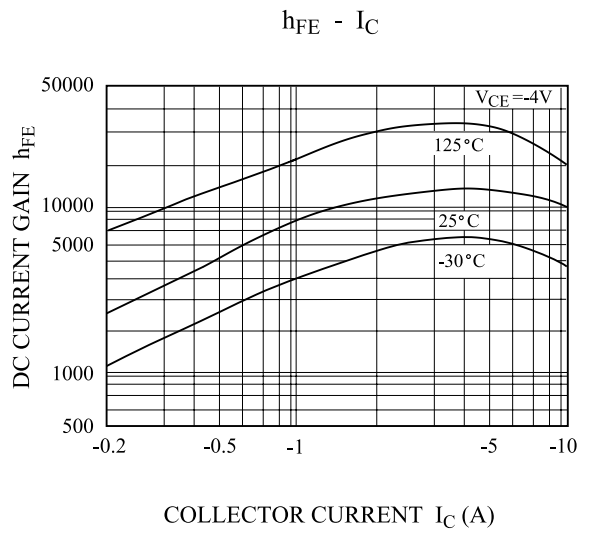
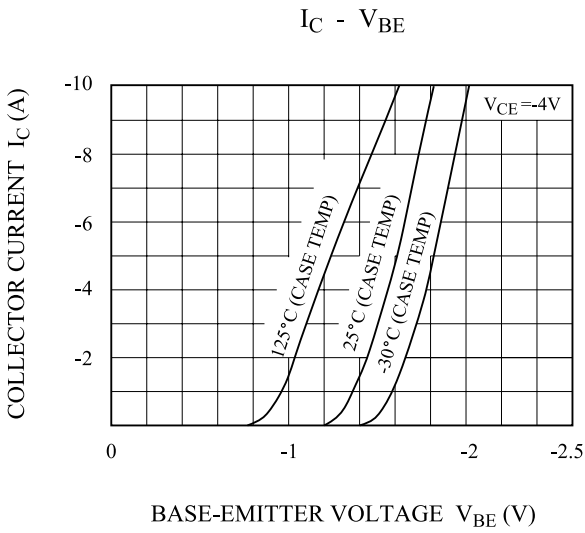
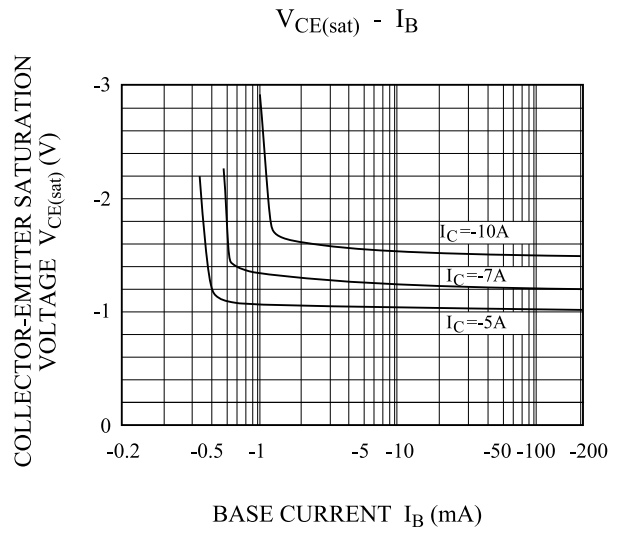
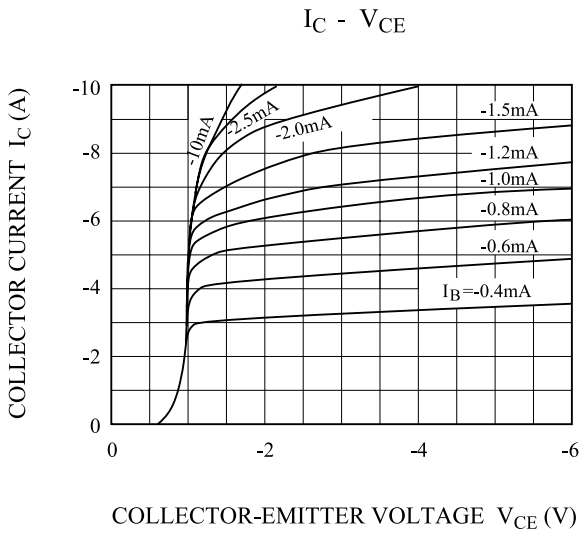


EQUIVALENT CIRCUIT



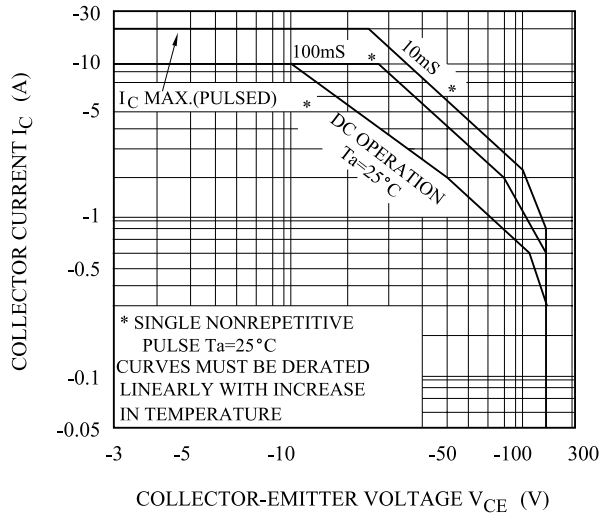
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|------------------------------|------|-------|-------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=-160V, I_E=0$ | - | - | -100 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5V, I_C=0$ | - | - | -100 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=-30mA, I_B=0$ | -150 | - | - | V |
| DC Current Gain | h_{FE} | $V_{CE}=-4V, I_C=-7A$ | 5000 | 12000 | 20000 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-7A, I_B=-7mA$ | - | - | -2.5 | V |
| Base-Emitter Saturation Voltage | $V_{BE(sat)}$ | $I_C=-7A, I_B=-7mA$ | - | - | -3.0 | V |
| Transition Frequency | f_T | $V_{CE}=-12V, I_C=-2A$ | - | 50 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10V, I_E=0, f=1MHz$ | - | 230 | - | pF |



KTB2510

SAFE OPERATING AREA



$P_c - T_a$

