

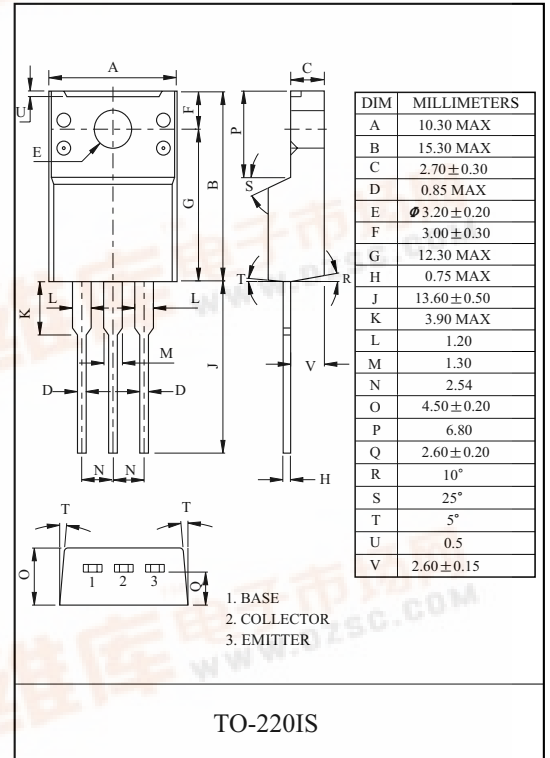
POWER AMPLIFIER APPLICATIONS.
DRIVER STAGE AMPLIFIER APPLICATINS.

FEATURES

- High Transition Frequency : $f_T=70\text{MHz(Typ.)}$
- Complementary Pair with KTC4793.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|-----------------------------|---------|-----------|-----------|------|
| Collector-Base Voltage | | V_{CBO} | -230 | V |
| Collector-Emitter Voltage | | V_{CEO} | -230 | V |
| Emitter-Base Voltage | | V_{EBO} | -5 | V |
| Collector Current | | I_C | -1 | A |
| Base Current | | I_B | -0.1 | A |
| Collector Power Dissipation | Ta=25°C | P_C | 2.0 | W |
| | Tc=25°C | | 20 | |
| 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} | $V_{CB}=-230V, I_E=0$ | - | - | -1.0 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=-5V, I_C=0$ | - | - | -1.0 | μA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=-10mA, I_B=0$ | -230 | - | - | V |
| DC Current Gain | h_{FE} | $V_{CE}=-5V, I_C=-100mA$ | 100 | - | 320 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=-500mA, I_B=-50mA$ | - | - | -1.5 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=-5V, I_C=-500mA$ | - | - | -1.0 | V |
| Transition Frequency | f_T | $V_{CE}=-10V, I_C=-100mA$ | - | 70 | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=-10V, I_E=0, f=1MHz$ | - | 30 | - | pF |



KTA1837

