

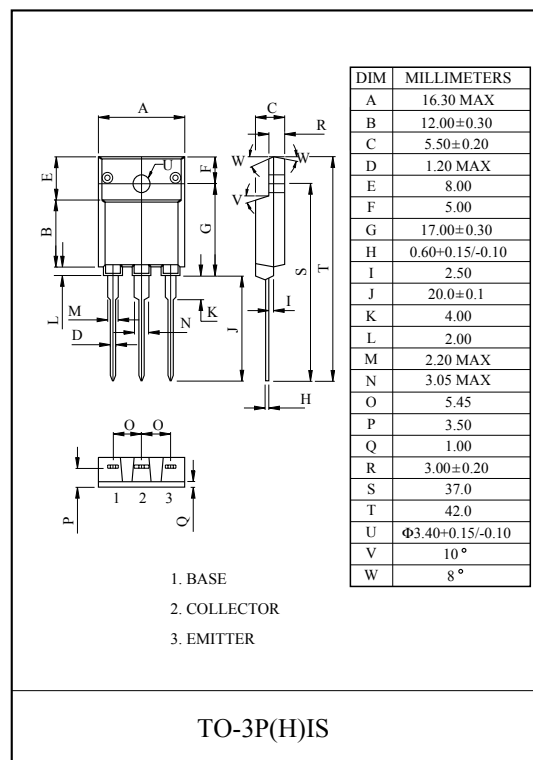
HIGH POWER AMPLIFIER APPLICATION.

## FEATURES

- Recommended for 45 ~ 50W Audio Frequency Amplifier Output Stage.
- Complementary to KTB778.

## MAXIMUM RATING (Ta=25℃)

| 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℃) | $P_C$     | 80        | 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            | $I_{CBO}$             | $V_{CB}=120V, I_E=0$        | -    | -    | 10   | $\mu A$ |
| Emitter Cut-off Current              | $I_{EBO}$             | $V_{EB}=5V, I_C=0$          | -    | -    | 10   | $\mu A$ |
| Collector-Emitter Breakdown Voltage  | $V_{(BR)CEO}$         | $I_C=50mA, I_B=0$           | 120  | -    | -    | V       |
| DC Current Gain                      | $h_{FE}(\text{Note})$ | $V_{CE}=5V, I_C=1A$         | 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                 | $f_T$                 | $V_{CE}=5V, I_C=1A$         | -    | 12   | -    | MHz     |
| Collector Output Capacitance         | $C_{ob}$              | $V_{CB}=10V, I_E=0, f=1MHz$ | -    | 170  | -    | pF      |

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

