

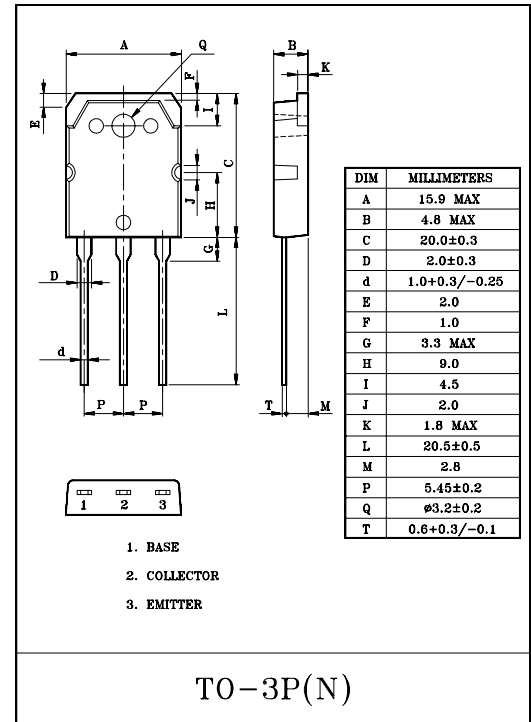
HIGH POWER AMPLIFIER APPLICATION.

#### FEATURES

- Recommended for 55W Audio Frequency Amplifier Output Stage.
- Complementary to KTA1940.

#### MAXIMUM RATINGS (Ta=25°C)

| CHARACTERISTIC                           | SYMBOL           | RATING  | UNIT |
|--|------------------|---------|------|
| Collector-Base Voltage                   | V <sub>CB0</sub> | 120     | V    |
| Collector-Emitter Voltage                | V <sub>CEO</sub> | 120     | V    |
| Emitter-Base Voltage                     | V <sub>EBO</sub> | 5       | V    |
| Collector Current                        | I <sub>C</sub>   | 10      | A    |
| Base Current                             | I <sub>B</sub>   | 0.8     | A    |
| Collector Power Dissipation<br>(Tc=25°C) | P <sub>C</sub>   | 80      | W    |
| Junction Temperature                     | T <sub>j</sub>   | 150     | °C   |
| Storage Temperature Range                | T <sub>stg</sub> | -55~150 | °C   |



#### ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC                       | SYMBOL                  | TEST CONDITION                                  | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|-------------------------|---|------|------|------|------|
| Collector Cut-off Current            | I <sub>CBO</sub>        | V <sub>CB</sub> =120V, I <sub>E</sub> =0        | -    | -    | 5.0  | μA   |
| Emitter Cut-off Current              | I <sub>EBO</sub>        | V <sub>EB</sub> =5V, I <sub>C</sub> =0          | -    | -    | 5.0  | μA   |
| Collector-emitter Breakdown Voltage  | V <sub>(BR)CEO</sub>    | I <sub>C</sub> =50mA, I <sub>B</sub> =0         | 120  | -    | -    | V    |
| DC Current Gain                      | h <sub>FE</sub> (Note1) | V <sub>CE</sub> =5V, I <sub>C</sub> =1A         | 55   | -    | 160  |      |
|                                      | h <sub>FE</sub> (2)     | V <sub>CE</sub> =5V, I <sub>C</sub> =4A         | 35   | 75   | -    |      |
| Collector-Emitter Saturation Voltage | V <sub>CE(sat)</sub>    | I <sub>C</sub> =6A, I <sub>B</sub> =0.6A        | -    | 0.35 | 2.0  | V    |
| Base-Emitter Voltage                 | V <sub>BE</sub>         | V <sub>CE</sub> =5V, I <sub>C</sub> =4A         | -    | 0.95 | 1.5  | V    |
| Transition Frequency                 | f <sub>T</sub>          | V <sub>CE</sub> =5V, I <sub>C</sub> =1A         | -    | 30   | -    | MHz  |
| Collector Output Capacitance         | C <sub>ob</sub>         | V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz | -    | 120  | -    | pF   |

Note : h<sub>FE</sub> Classification R : 55~110, O : 80~160

