

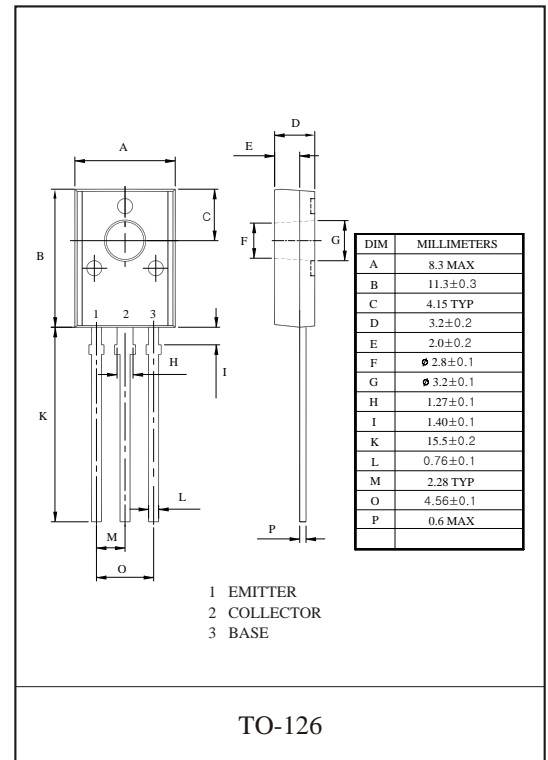
### AUDIO FREQUENCY POWER AMPLIFIER LOW SPEED SWITCHING

#### FEATURES

- Complementary to FTB772.

#### MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC              | SYMBOL                       | RATING    | UNIT |
|-----------------------------|------------------------------|-----------|------|
| Collector-Base Voltage      | $V_{CBO}$                    | 40        | V    |
| Collector-Emitter Voltage   | $V_{CEO}$                    | 30        | V    |
| Emitter-Base Voltage        | $V_{EBO}$                    | 6         | V    |
| Collector Current           | DC $I_C$                     | 3         | A    |
| Collector Power Dissipation | $T_a=25^\circ\text{C}$ $P_C$ | 1.25      | 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            | $I_{CBO}$       | $V_{CB}=30V, I_E=0$   | -    | -    | 1    | $\mu\text{A}$ |
| Emitter-Cut-off Current              | $I_{EBO}$       | $V_{EB}=3V, I_C=0$    | -    | -    | 1    | $\mu\text{A}$ |
| DC Current Gain                      | * $h_{FE}$      | $V_{CE}=2V, I_C=1A$   | 60   | -    | 400  |               |
| Collector-Emitter Saturation Voltage | * $V_{CE(sat)}$ | $I_C=2A, I_B=0.2A$    | -    | -    | 0.5  | V             |
| Base-Emitter Saturation Voltage      | * $V_{BE(sat)}$ | $I_C=2V, I_B=0.2A$    | -    | -    | 1.5  | V             |
| Current Gain Bandwidth Product       | $f_T$           | $I_{CE}=5V, I_C=0.1A$ | -    | 0.9  | -    | MHz           |

\* Pulse Test : Pulse Width  $\leq 350\mu\text{s}$ , Duty Cycle  $\leq 2\%$  Pulsed

Note:  $h_{FE}(2)$  Classification R : 60~120, O : 100~200, Y : 160~320, GR : 200~400

