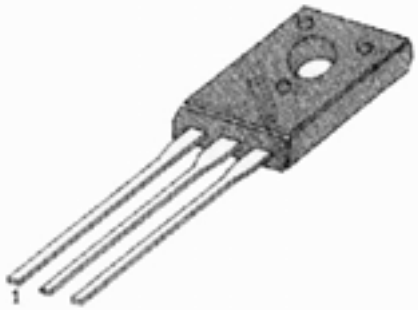
# B772
## *PNP Epitaxial Silicon Transistor*

## AUDIO FREQUENCY POWER AMPLIFIER
## LOW SPEED SWITCHING

- Low Speed Switching
- Collector-Emitter Voltage: $V_{CEO}$ = -30V
- Collector Dissipation: $P_C$ = 1.25W

TO-126



**1. Emitter 2. Collector 3. Base**

## Absolute Maximum Ratings (TA=25°C)

| Characteristic | Symbol | Rating | Unit |
|---|---|---|---|
| Collector-Base Voltage | $V_{CBO}$ | -40 | V |
| Collector-Emitter Voltage | $V_{CEO}$ | -30 | V |
| Emitter-Base Voltage | $V_{EBO}$ | -5 | V |
| Collector Current | $I_C$ | -3000 | mA |
| Collector Dissipation | $P_C$ | 1250 | mW |
| Junction Temperature | $T_J$ | 150 | °C |
| Storage Temperature | $T_{STG}$ | -55~+150 | °C |

## Electrical Characteristics (TA=25°C)

| Characteristic | Symbol | Test Conditions | Min | Max | Unit |
|---|---|---|---|---|---|
| Collector-Base Breakdown Voltage | $BV_{CBO}$ | $I_C$= -100μA, $I_E$=0 | -40 | | V |
| Collector-Emitter Breakdown Voltage | $BV_{CEO}$ | $I_C$= -10mA, $I_B$=0 | -30 | | V |
| Emitter-Base Breakdown Voltage | $BV_{EBO}$ | $I_E$= -100μA, $I_C$=0 | -5 | | V |
| Collector Cut-off Current | $I_{CBO}$ | $V_{CB}$= -40V, $I_E$=0 | | -1 | μA |
| Collector Cut-off Current | $I_{CEO}$ | $V_{CE}$= -30V, $I_B$=0 | | -1 | μA |
| Emitter Cut-off Current | $I_{EBO}$ | $V_{EB}$= -6V, $I_C$=0 | | -1 | μA |
| DC Current Gain | $h_{FE(1)}$ | $V_{CE}$= -2V, $I_C$= -1A | 60 | 400 | |
| | $h_{FE(2)}$ | $V_{CE}$= -2V, $I_C$= -100mA | 32 | | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$= -2A, $I_B$= -0.2A | | -0.5 | V |
| | $V_{BE(sat)}$ | $I_C$= -2A, $I_B$= -0.2A | | -2 | V |
| Transition Frequency | $f_T$ | $V_{CE}$= -5V, $I_C$= -0.1A | | | |
| | | f= 10MHz | 50 | | MHz |

## $h_{FE(1)}$ CLASSIFICATION

| Classification | R | O | Y | GR |
|---|---|---|---|---|
| $h_{FE(1)}$ | 60-120 | 100-200 | 160-320 | 200-400 |

**Elite Enterprises (H.K.) Co., Ltd.**
Flat 2505, 25/F., Nanyang Plaza, 57 Hung To Road, Kwun Tong, H.K.
Tel: (852) 2723-3122 Fax: (852) 2723-3990 Email: info@elite-ent.com.hk