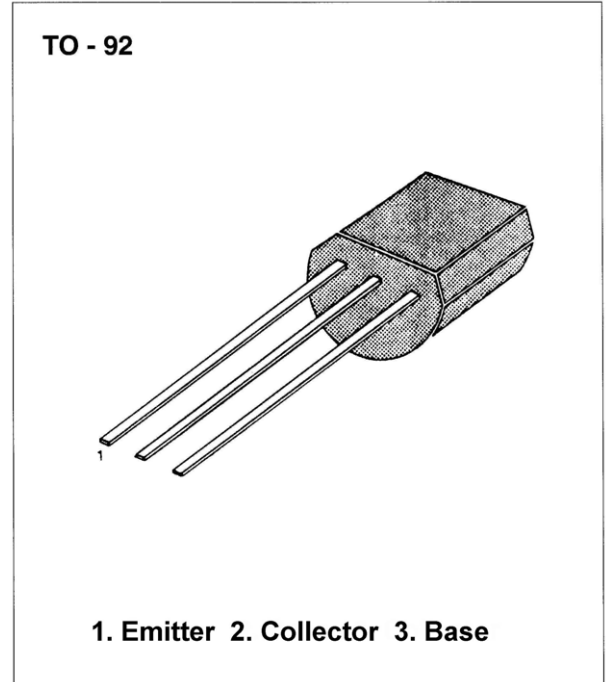


LOW FREQUENCY AMPLIFIER

- Collector-Emitter Voltage: $V_{CE0} = -50V$
- Collector Dissipation: $P_C(\max) = 250mW$

Absolute Maximum Ratings (TA=25°C)

| Characteristic | Symbol | Rating | Unit |
|---------------------------|-----------|----------|------|
| Collector-Base Voltage | V_{CBO} | -60 | V |
| Collector-Emitter Voltage | V_{CEO} | -50 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector Current | I_C | -150 | mA |
| Collector Dissipation | P_C | 250 | mW |
| Junction Temperature | T_J | 150 | °C |
| Storage Temperature | T_{STG} | -55~+150 | °C |



Electrical Characteristics (TA=25°C)

| Characteristic | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|--|-----|-------|------|---------|
| Collector-Base Breakdown Voltage | BV_{CBO} | $I_C = -5\mu A, I_E = 0$ | -60 | | | V |
| Collector-Emitter Breakdown Voltage | BV_{CEO} | $I_C = -1mA, I_B = 0$ | -50 | | | V |
| Emitter-Base Breakdown Voltage | BV_{EBO} | $I_E = -50\mu A, I_C = 0$ | -5 | | | V |
| Collector Cut-off Current | I_{CBO} | $V_{CB} = -60V, I_E = 0$ | | | 0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB} = -5V, I_C = 0$ | | | 01 | μA |
| DC Current Gain | h_{FE} | $V_{CE} = -6V, I_C = -1mA$ | 90 | 200 | 600 | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C = -100mA, I_B = -10mA$ | | -0.18 | -0.3 | V |
| Transition Frequency | f_T | $V_{CE} = -6V, I_C = -10mA$ $f = 30MHz$ | 50 | 180 | | MHz |

h_{FE} CLASSIFICATION

| Classification | R | Q | P | K |
|----------------|--------|---------|---------|---------|
| h_{FE} | 90-180 | 135-270 | 200-400 | 300-600 |