

# TIP122 (2A)

- need road:**

Power adjustment, audio power amplifier, other electronic circuits

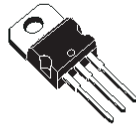
- feature:**

Maximum collector current  $I_{CM}$ : 2A

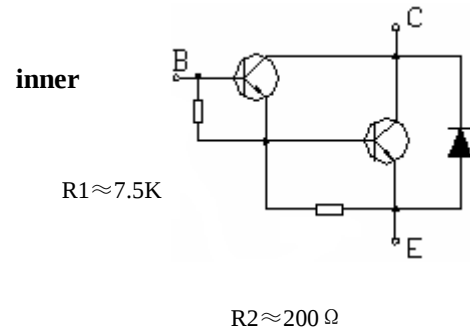
**structure:**

- Packaging**

T0-220SD



**form:**



- Electrical**

characteristics ( $T_a=25^\circ C$ )

| Parameter name                                 | symbol            | test condition       | representative value | minimum | maximum | unit    |
|------------------------------------------------|-------------------|----------------------|----------------------|---------|---------|---------|
| Collector-base breakdown voltage               | $BV_{CBO}$        | $I_C=0.1mA, I_E=0$   | 260                  | 150     |         | V       |
| Collector-emitter breaking voltage             | $BV_{CEO}$        | $I_C=10mA, I_B=0$    | 150                  | 100     |         | V       |
| Collector-emitter maintenance voltage          | $V_{CEO} (sus)^*$ | $I_C=20mA, I_B=0$    |                      | 100     |         | V       |
| Transmitter-base pole breakdown voltage        | $BV_{EBO}$        | $I_E=1mA, I_C=0$     |                      | 4       |         | V       |
| Collector-base cut-off current                 | $I_{CBO}$         | $V_{CB}=150V, I_E=0$ |                      |         | 1       | $\mu A$ |
| Collector-emitter cut-off current              | $I_{CEO}$         | $V_{CE}=100V, I_B=0$ |                      |         | 1       | $\mu A$ |
| Eemitter-base cut-off current                  | $I_{EBO}$         | $V_{EB}=10V, I_C=0$  | 1.3                  |         | 2.5     | mA      |
| DC current gain                                | $h_{FE}$          | $V_{CE}=5V, I_C=1A$  |                      | 2K      | 15K     |         |
| The collector- -the emitter saturation voltage | $V_{CES}$         | $I_C=3A, I_B=12mA$   | 1.2                  |         | 1.8     | V       |