

深圳市晶泰源电子有限公司

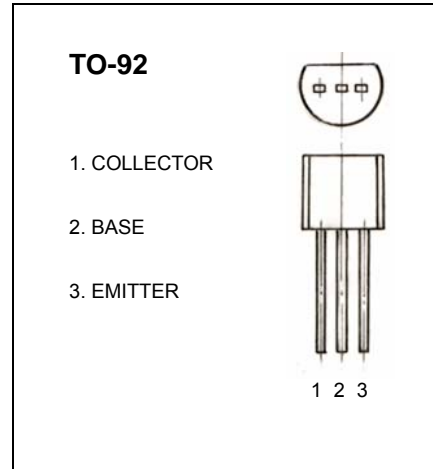
BC556/BC557/BC558 TRANSISTOR (PNP)

FEATURES

- High Voltage
- Complement to BC546/BC547/BC548

MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

| Symbol | Parameter | Value | Units |
|-----------|-------------------------------|--|--------------------|
| V_{CBO} | Collector-Base Voltage | BC556 -80 BC557 -50 BC558 -30 | V |
| | Collector-Emitter Voltage | -65 | V |
| | | -45 | |
| -30 | | | |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current -Continuous | -100 | mA |
| P_C | Collector Power Dissipation | 625 | mW |
| T_J | Junction Temperature | 150 | $^{\circ}\text{C}$ |
| T_{stg} | Storage Temperature | -55-150 | $^{\circ}\text{C}$ |



ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

| Parameter | Symbol | Test conditions | MIN | TYP | MAX | UNIT |
|--------------------------------------|---------------|---|-----------------------------|-----|-------|---------------|
| Collector-base breakdown voltage | V_{CBO} | $I_C = -100\mu\text{A}, I_E = 0$ | BC556 -80 | | | V |
| | | | BC557 -50 | | | |
| | | | BC558 -30 | | | |
| Collector-emitter breakdown voltage | V_{CEO} | $I_C = -2\text{mA}, I_B = 0$ | BC556 -65 | | | V |
| | | | BC557 -45 | | | |
| | | | BC558 -30 | | | |
| Emitter-base breakdown voltage | V_{EBO} | $I_E = -100\mu\text{A}, I_C = 0$ | -5 | | | V |
| Collector cut-off current | I_{CBO} | $V_{CB} = -70\text{V}, I_E = 0$ $V_{CB} = -45\text{V}, I_E = 0$ $V_{CB} = -25\text{V}, I_E = 0$ | | | -0.1 | μA |
| | | | BC556 | | | |
| | | | BC557 BC558 | | | |
| Collector cut-off current | I_{CEO} | $V_{CE} = -60\text{V}, I_B = 0$ $V_{CE} = -40\text{V}, I_B = 0$ $V_{CE} = -25\text{V}, I_B = 0$ | | | -0.1 | μA |
| | | | BC556 | | | |
| | | | BC557 BC558 | | | |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -5\text{V}, I_C = 0$ | | | -0.1 | μA |
| DC current gain | h_{FE} | $V_{CE} = -5\text{V}, I_C = -2\text{mA}$ | BC556 120 | | 800 | |
| | | | BC557 120 | | 800 | |
| | | | BC558 120 | | 800 | |
| | | | BC557A 120 | | 220 | |
| | | | BC556B/BC557B/BC558B 180 | | 460 | |
| | | | BC557C 420 | | 800 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -100\text{mA}, I_B = -5\text{mA}$ | | | -0.65 | V |
| Base-emitter saturation voltage | $V_{BE(sat)}$ | $I_C = -100\text{mA}, I_B = -5\text{mA}$ | | | -1 | V |
| Transition frequency | f_T | $V_{CE} = -5\text{V}, I_C = -10\text{mA}$ $f = 100\text{MHz}$ | 150 | | | MHz |

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