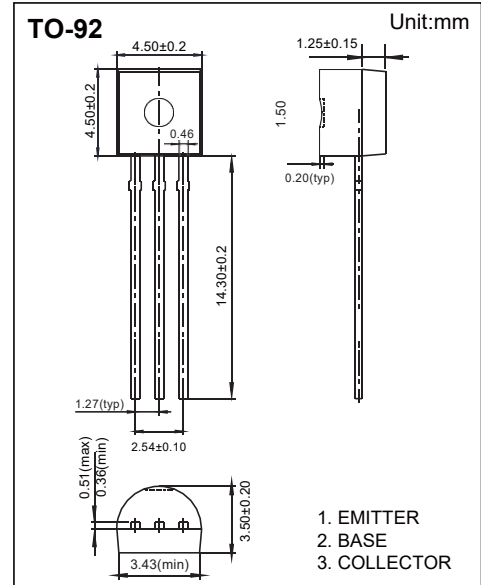


PNP Transistors S8550

■ Features

- High Total Power Dissipation.($P_C=625\text{mW}$)
- Collector current: $I_C=-0.5\text{A}$
- Excellent hFE Linearity



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Rating | Unit |
|--------------------------------|-----------|------------|------------------|
| Collector - Base Voltage | V_{CB0} | -40 | V |
| Collector - Emitter Voltage | V_{CE0} | -25 | |
| Emitter - Base Voltage | V_{EB0} | -5 | |
| Collector Current - Continuous | I_C | -0.5 | A |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_J | 150 | $^\circ\text{C}$ |
| Storage Temperature | T_{stg} | -55 to 150 | |

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

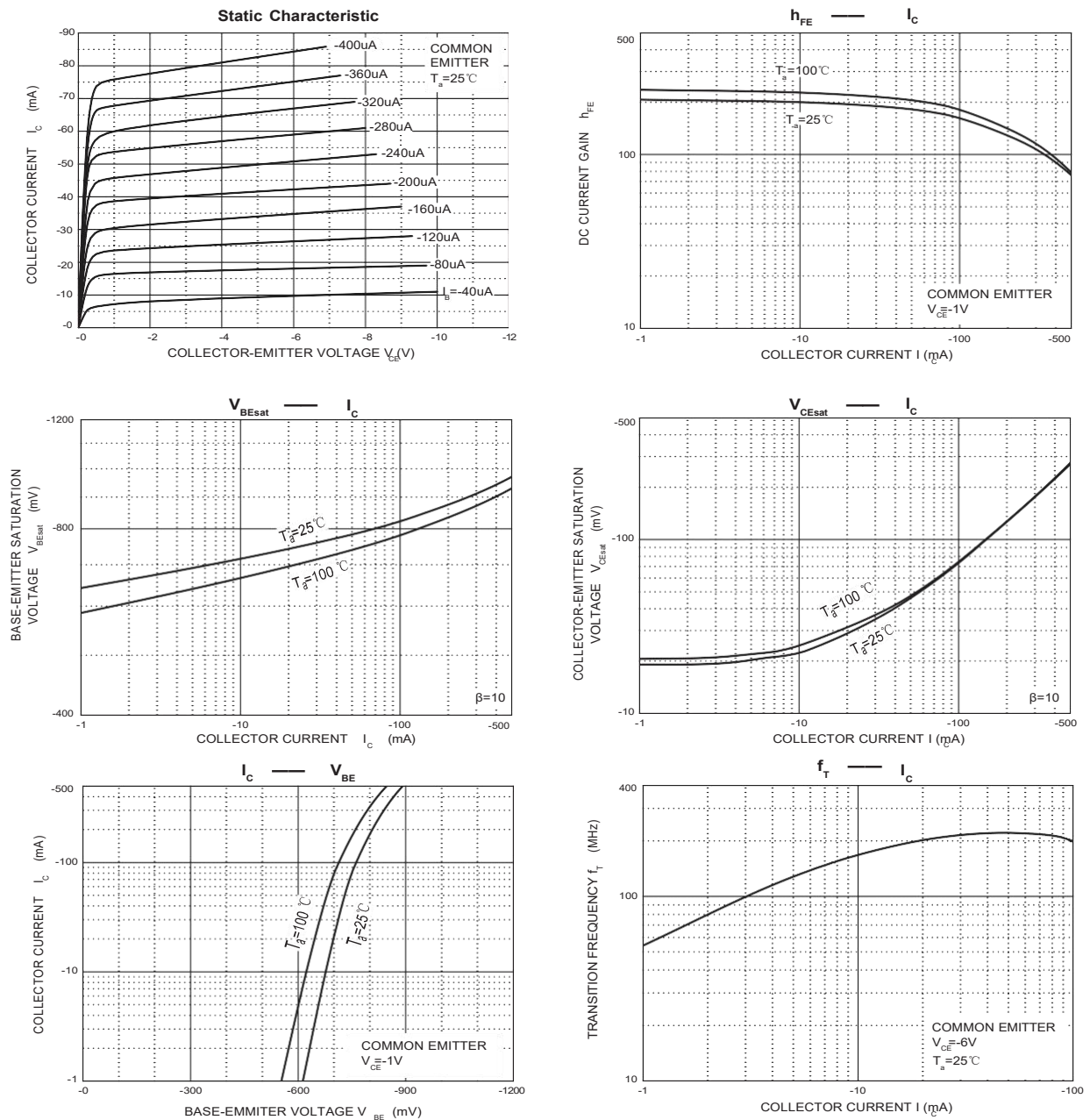
| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|--------------------------------------|---------------|---|-----|-----|------|---------------|
| Collecto- base breakdown voltage | V_{CB0} | $I_C = -100 \mu\text{A}, I_E = 0$ | -40 | | | V |
| Collector- emitter breakdown voltage | V_{CE0} | $I_C = -1 \text{mA}, I_B = 0$ | -25 | | | |
| Emitter - base breakdown voltage | V_{EB0} | $I_E = -100 \mu\text{A}, I_C = 0$ | -5 | | | |
| Collector cut-off current | I_{CBO} | $V_{CB} = -40\text{V}, I_E = 0$ | | | -0.1 | μA |
| Collector cut-off current | I_{CEO} | $V_{CE} = -20\text{V}, I_E = 0$ | | | -0.1 | |
| Emitter cut-off current | I_{EBO} | $V_{EB} = -3\text{V}, I_C = 0$ | | | -0.1 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = -500 \text{mA}, I_B = -50\text{mA}$ | | | -0.6 | V |
| Base - emitter saturation voltage | $V_{BE(sat)}$ | $I_C = -500 \text{mA}, I_B = -50\text{mA}$ | | | -1.2 | |
| DC current gain | $h_{FE(1)}$ | $V_{CE} = -1\text{V}, I_C = -50\text{mA}$ | 85 | | 400 | |
| | $h_{FE(2)}$ | $V_{CE} = -1\text{V}, I_C = -500\text{mA}$ | 50 | | | |
| Transition frequency | f_T | $V_{CE} = -6\text{V}, I_C = -20\text{mA}, f = 30\text{MHz}$ | 150 | | | MHz |

PNP Transistors S8550

Classification of hFE(1)

| Rank | B | C | D | D3 |
|-------|--------|---------|---------|---------|
| Range | 85-160 | 120-200 | 160-300 | 300-400 |

Typical Characteristics



PNP Transistors

S8550

■ Typical Characteristics

