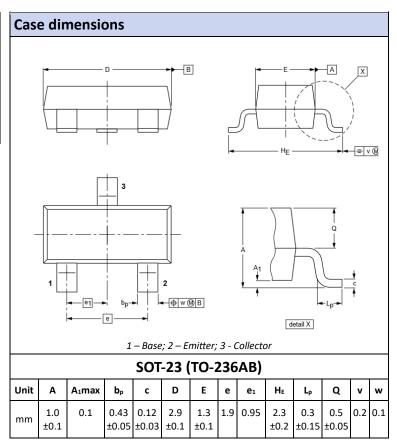


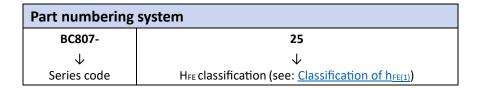
Silicon SMD PNP Epitaxial Transistors

| Primary characteristics | | | | |
|-------------------------|-----------------------------|-------|------|--|
| Symbol | Parameter | Value | Unit | |
| V _{CBO} | Collector-base voltage | -50 | V | |
| V _{CEO} | Collector-emitter voltage | -45 | V | |
| V _{EBO} | Emitter-base voltage | -5 | V | |
| Pc | Collector power dissipation | 300 | mW | |

Features

- **SOT-23** case for easy automatic insertion.
- Pb-free and RoHS compliant
- Epitaxial planar die construction
- Complementary **NPN** type available (**BC817**)

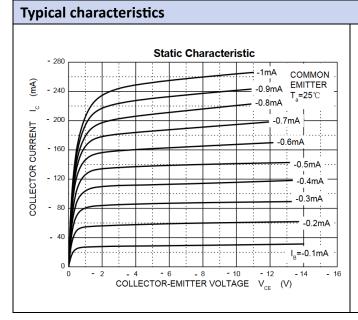


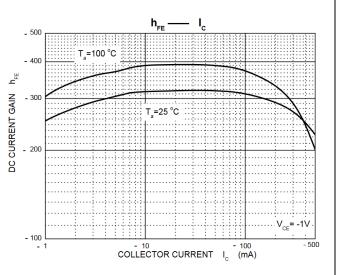




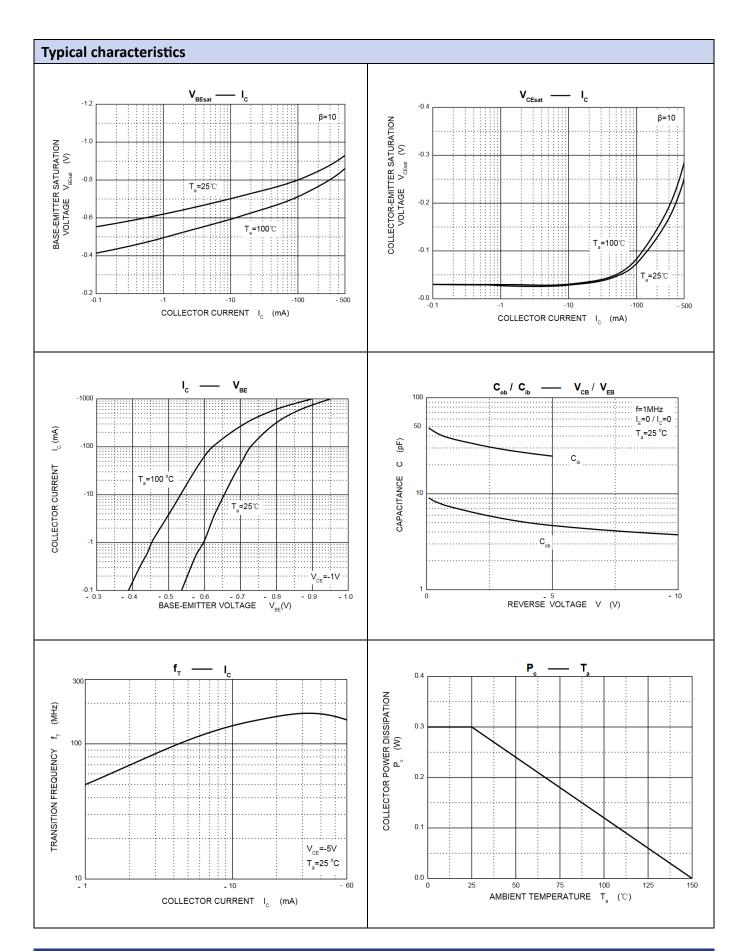
| Electrical characteristics and maximum ratings (T _a = 25°C) | | | | | | | |
|--|--------------------|---|-------|------|------|--|--|
| Parameter | Symbol | Test conditions | Value | | Unit | | |
| | , , , , | | Min | Max | | | |
| Collector-base voltage | V _{CBO} | Ic= -10μA, I _E =0 | -50 | | V | | |
| Collector-emitter voltage | V_{CEO} | $I_C = -10\mu A$, $I_B = 0$ | -45 | | V | | |
| Emitter-base voltage | V_{EBO} | I _E = -1μΑ, I _C =0 | -5 | | V | | |
| Collector cut-off current | I _{CBO} | V _{CB} =-45V, I _E =0 | | -0.1 | μΑ | | |
| Emitter cut-off current | I _{EBO} | V _{EB} =-4V, I _C =0 | | -0.1 | μΑ | | |
| Collector current | lc | | -500 | | mA | | |
| Collector power dissipation | Pc | | | 300 | mW | | |
| DC current gain | h _{FE(1)} | V _{CE} =-1V, I _C =-100mA | 100 | 600 | | | |
| DC current gain | h _{FE(2)} | V _{CE} =-1V, I _C =-500mA | 40 | | | | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | I _C =-500mA, I _B =-50mA | | -0.7 | V | | |
| Base-emitter saturation voltage | $V_{BE(sat)}$ | I _C =-500mA, I _B =-50mA | | -1.2 | V | | |
| Transition frequency | f⊤ | V _{CE} =-5V, I _C =-10mA f=100MHz | 100 | | MHz | | |
| Junction temperature | Tj | | | 150 | °C | | |
| Storage temperature range | Ts | | -55 | 150 | °C | | |
| Thermal resistance junction to ambient air ¹⁾ | R _{thA} | | | 417 | °C/W | | |

| Classification of h _{FE(1)} | | | | | | |
|--------------------------------------|-------|-----|--|--|--|--|
| Part number | Range | | | | | |
| Part Hullibei | Min | Max | | | | |
| BC807-16 | 100 | 250 | | | | |
| BC807-25 | 160 | 400 | | | | |
| BC807-40 | 250 | 600 | | | | |

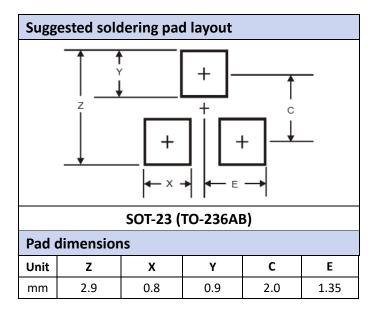












| Ordering information | | | | | | |
|----------------------|-------------------|-------------------|------------|--|--|--|
| Part Number | Package | Shipping Quantity | Dimensions | | | |
| BC807-16 ~ BC807-40 | SOT-23 (TO-236AB) | 3000 pcs / reel | | | | |

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