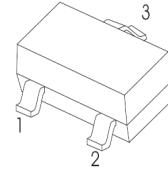


NPN Silicon Epitaxial Planar Transistors

: 95H F9G

- For general AF applications
- High collector current
- High current gain
- Low collector-emitter saturation voltage
- Complementary types: BC807 (PNP)

GCH&



1. BASE
2. Emitter
3. Collector

MAXIMUM RATINGS ($T_a=25^\circ C$ unless otherwise noted)

| 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 |
| I_c | Collector Current | 500 | mA |
| P_c | Collector Power Dissipation | 300 | mW |
| R_{QJA} | Thermal Resistance From Junction To Ambient | 417 | °C/W |
| T_j | Junction Temperature | 150 | °C |
| T_{stg} | Storage Temperature | -55~+150 | °C |

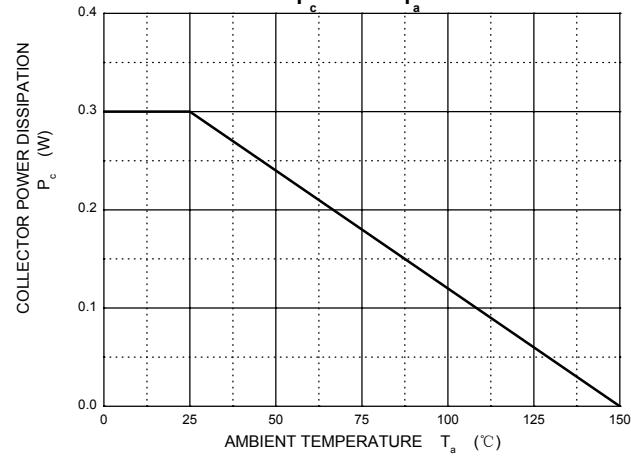
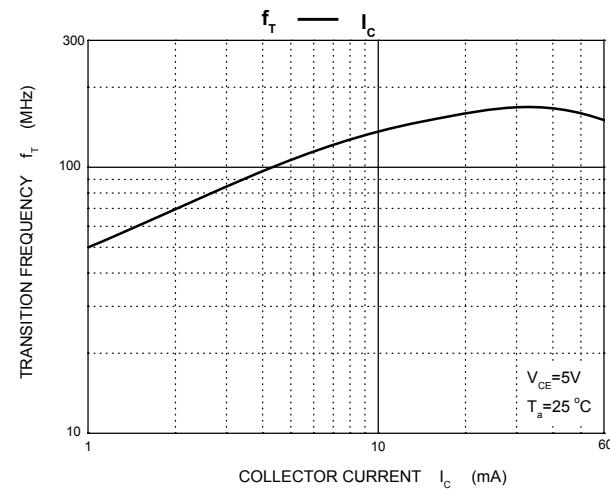
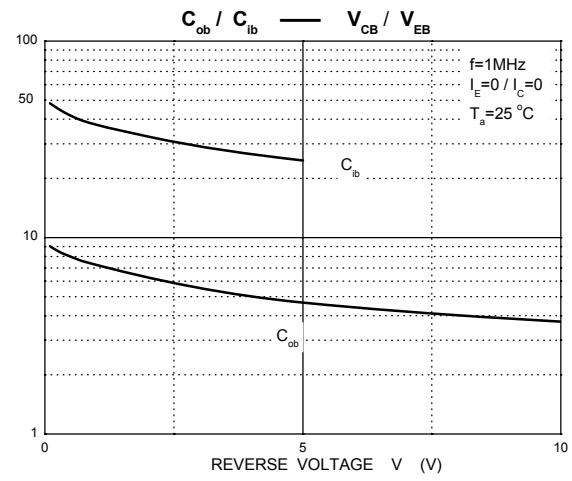
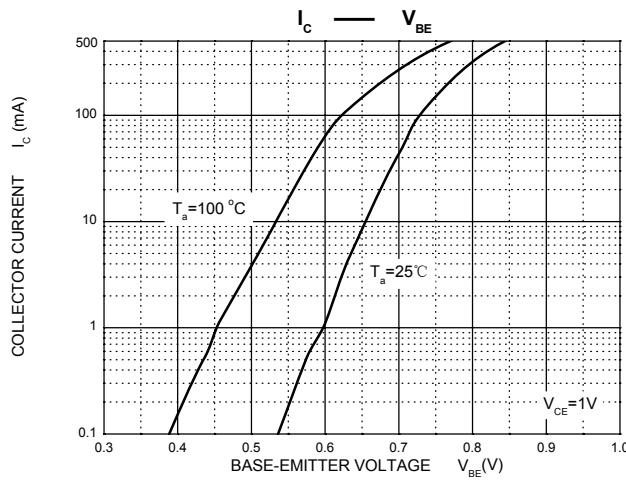
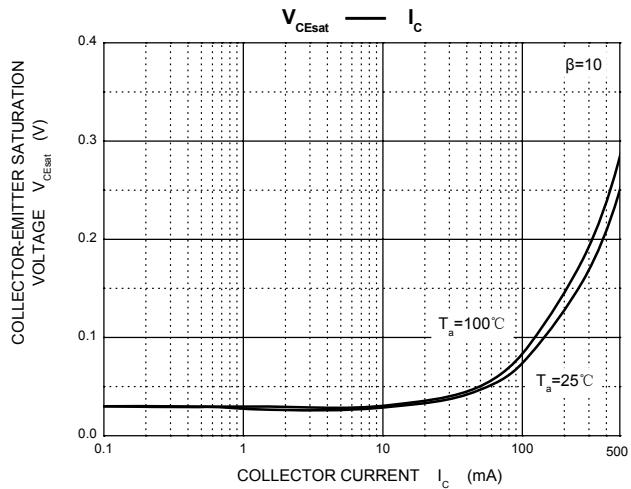
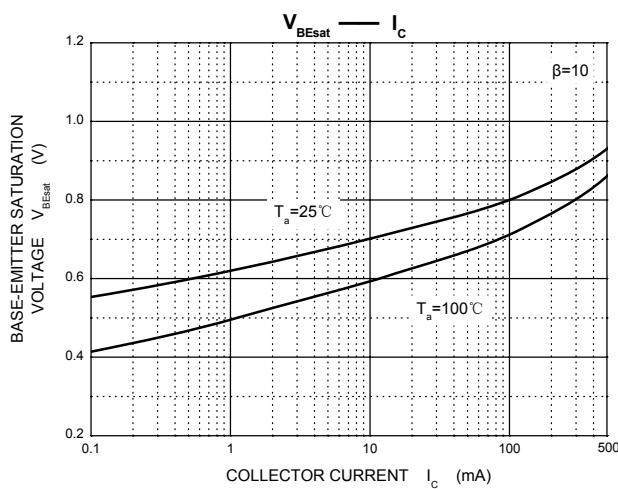
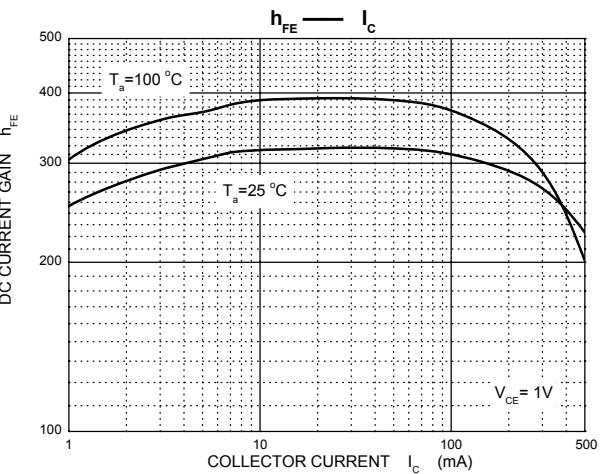
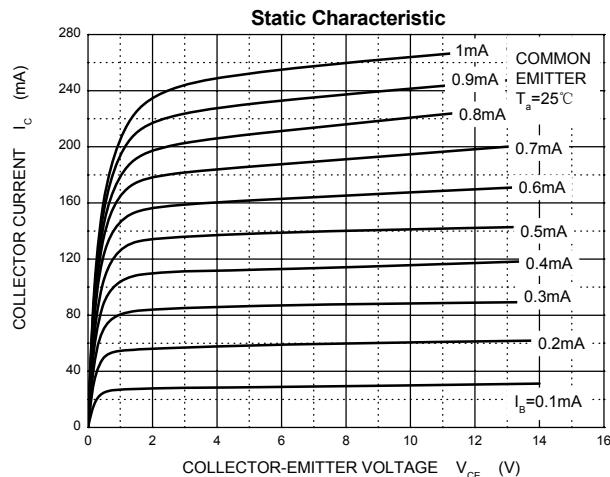
9 @ 7 HF = 5 @ 5 F 5 7 H9 F = GH7 G'fHa1 & °C i b`Ygg`c`H Yfk JgYgdYWZ YXL

| Parameter | Symbol | Description | Value | Type | Aux | Unit |
|--|---------------|---------------|-------|------|-----|---------|
| $I_c = 10\mu A, I_E = 0$ | V_{CBO} | V_{CBO} | 50 | | | V |
| $I_c = 10mA, I_B = 0$ | V_{CEO} | V_{CEO} | 45 | | | V |
| $I_E = 1\mu A, I_C = 0$ | V_{EBO} | V_{EBO} | 5 | | | V |
| $V_{CB} = 45 V, I_E = 0$ | I_{CBO} | I_{CBO} | | | 0.1 | μA |
| $V_{EB} = 4V, I_C = 0$ | I_{EBO} | I_{EBO} | | | 0.1 | μA |
| $V_{CE} = 1V, I_C = 100mA$ | $h_{FE(1)}$ | $h_{FE(1)}$ | 100 | | 600 | |
| $V_{CE} = 1V, I_C = 500mA$ | $h_{FE(2)}$ | $h_{FE(2)}$ | 40 | | | |
| $I_C = 500mA, I_B = 50mA$ | $V_{CE(sat)}$ | $V_{CE(sat)}$ | | | 0.7 | V |
| $I_C = 500mA, I_B = 50mA$ | $V_{BE(sat)}$ | $V_{BE(sat)}$ | | | 1.2 | V |
| $V_{CE} = 1 V, I_C = 500mA$ | V_{BE} | V_{BE} | | | 1.2 | V |
| $V_{CB} = 10V, f = 1MHz$ | C_{ob} | C_{ob} | | 10 | | pF |
| $V_{CE} = 5 V, I_C = 10mA$ $f = 100MHz$ | f_T | f_T | 100 | | | MHz |

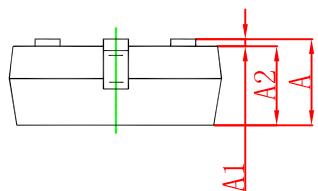
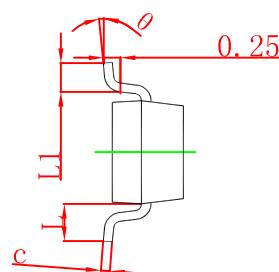
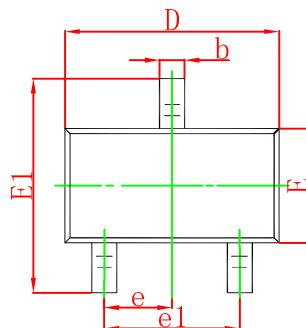
7 @ GG = 5 HCB'C: h_{FE} m

| | | | |
|----------------|-----------|------------|--------------|
| F_{Ub} | 67, %!% | 67, %!& | 67, %!(\$ |
| F_{Ub} [Y] | %\$!&) \$ | %\$!(\$\$ | &) \$!* \$\$ |

Typical Characteristics



SOT-23 Package Outline Dimensions



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 0.900 | 1.150 | 0.035 | 0.045 |
| A1 | 0.000 | 0.100 | 0.000 | 0.004 |
| A2 | 0.900 | 1.050 | 0.035 | 0.041 |
| b | 0.300 | 0.500 | 0.012 | 0.020 |
| c | 0.080 | 0.150 | 0.003 | 0.006 |
| D | 2.800 | 3.000 | 0.110 | 0.118 |
| E | 1.200 | 1.400 | 0.047 | 0.055 |
| E1 | 2.250 | 2.550 | 0.089 | 0.100 |
| e | 0.950 TYP | | 0.037 TYP | |
| e1 | 1.800 | 2.000 | 0.071 | 0.079 |
| L | 0.550 REF | | 0.022 REF | |
| L1 | 0.300 | 0.500 | 0.012 | 0.020 |
| θ | 0° | 8° | 0° | 8° |

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