

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

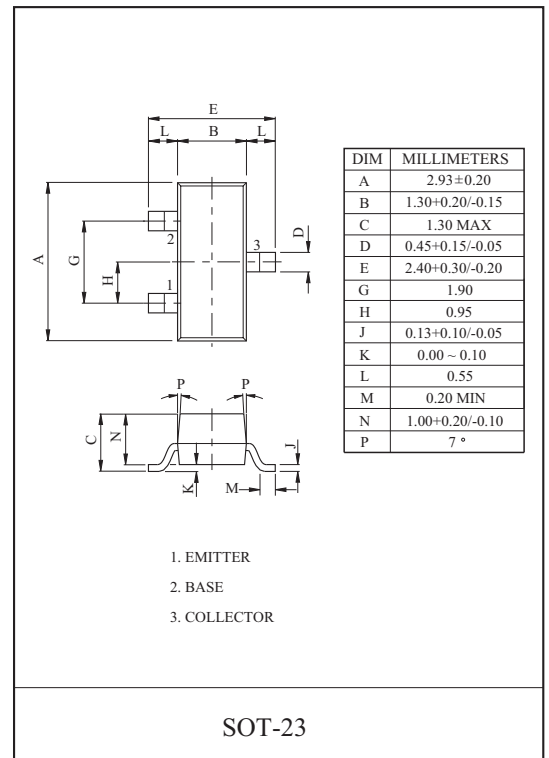
FEATURES

- Complementary to BC807.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|---------|------|
| Collector-Base Voltage | V_{CBO} | 50 | V |
| Collector-Emitter Voltage | V_{CEO} | 45 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Collector Current | I_C | 800 | mA |
| Emitter Current | I_E | -800 | mA |
| Collector Power Dissipation | P_C^* | 350 | mW |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature Range | T_{stg} | -55~150 | °C |

* : Package Mounted On 99.9% Alumina 10×8×0.6mm.



ELECTRICAL CHARACTERISTICS (Ta=25°C)

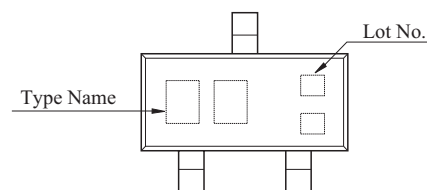
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|---------------------------------|------|------|------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=20V, I_E=0$ | - | - | 0.1 | μA |
| Emitter Cut-off Current | I_{EBO} | $V_{EB}=5V, I_C=0$ | - | - | 0.1 | μA |
| DC Current Gain (Note) | $h_{FE(1)}$ | $V_{CE}=1V, I_C=100mA$ | 100 | - | 630 | |
| | $h_{FE(2)}$ | $V_{CE}=1V, I_C=500mA$ | 40 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=500mA, I_B=50mA$ | - | - | 0.7 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=1V, I_C=500mA$ | - | - | 1.2 | V |
| Transition Frequency | f_T | $V_{CE}=5V, I_C=10mA, f=100MHz$ | 100 | - | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | - | 5 | - | pF |

Note : $h_{FE(1)}$ Classification 16:100~250, 25:160~400, 40:250~630

MARK SPEC

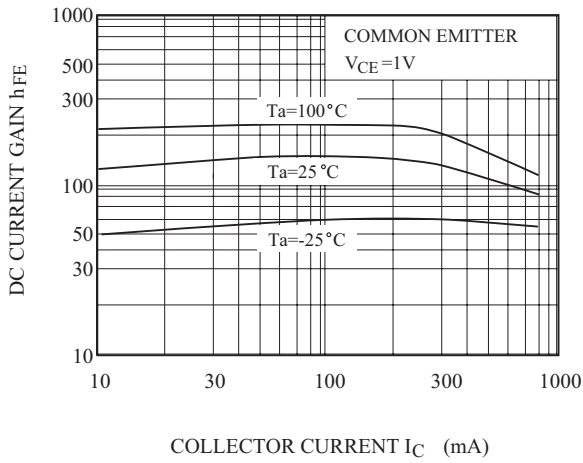
| TYPE | BC817-16 | BC817-25 | BC817-40 |
|------|----------|----------|----------|
| MARK | 6A | 6B | 6C |

Marking

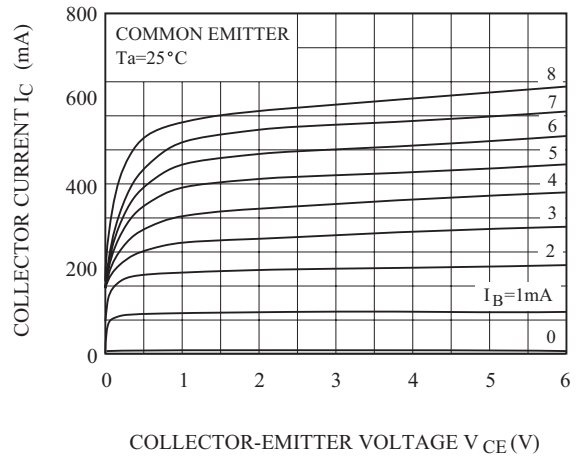


BC817

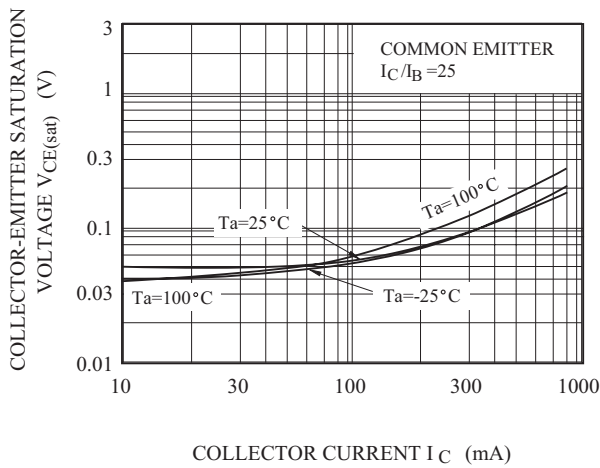
$h_{FE} - I_C$



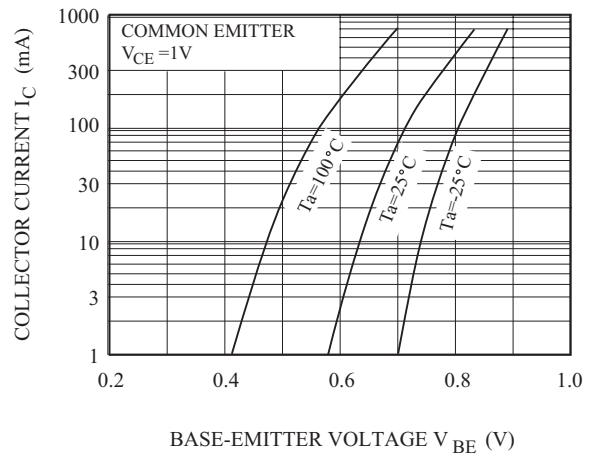
$I_C - V_{CE}$



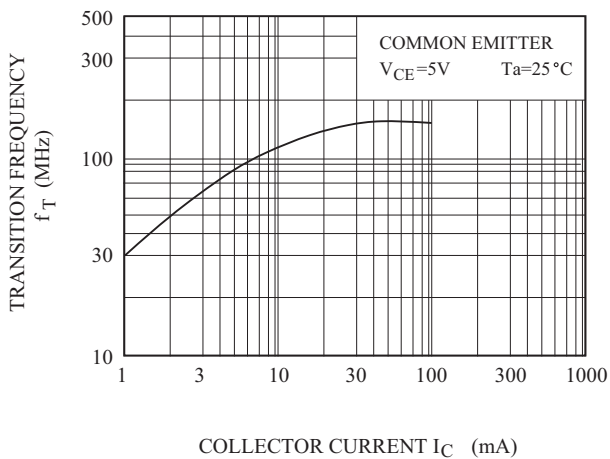
$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



$f_T - I_C$



$P_C - T_a$

