

PNP general purpose transistor

SST6839

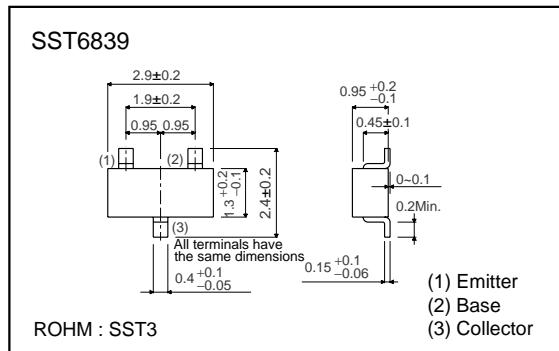
●Features

- 1) $BV_{CEO} < 40V$ ($I_C = -1mA$)
- 2) Complements the SST6838.

●Package, marking and packaging specifications

| | |
|------------------------------|---------|
| Part No. | SST6839 |
| Packaging type | SST3 |
| Marking | RFQ |
| Code | T116 |
| Basic ordering unit (pieces) | 3000 |

●External dimensions (Unit : mm)



●Absolute maximum ratings ($T_a=25^\circ C$)

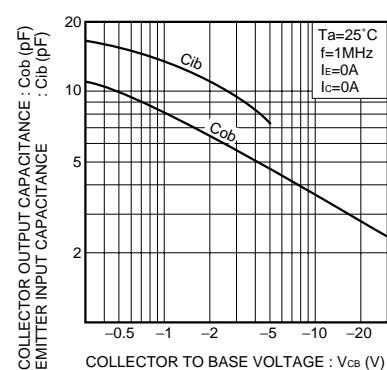
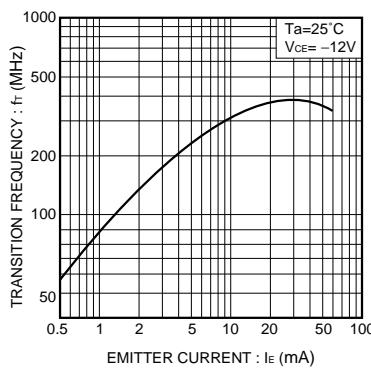
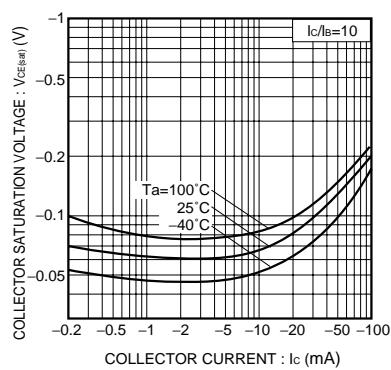
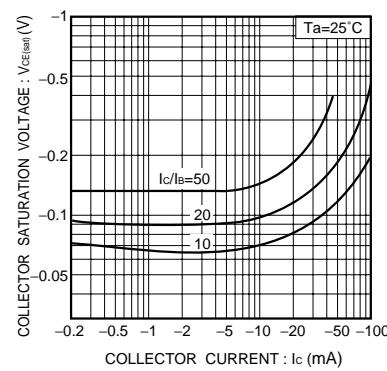
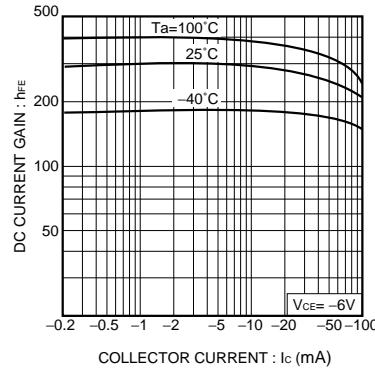
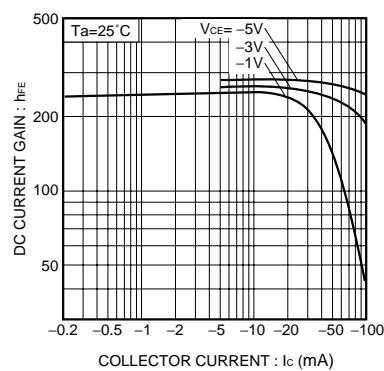
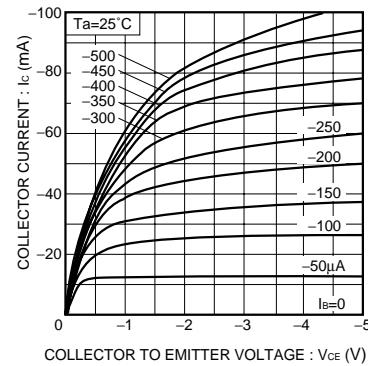
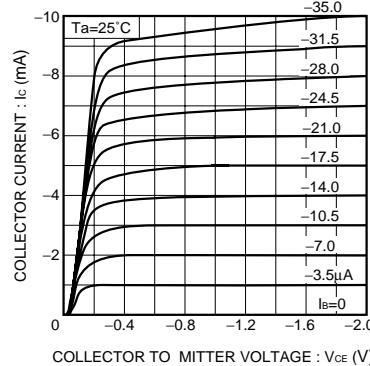
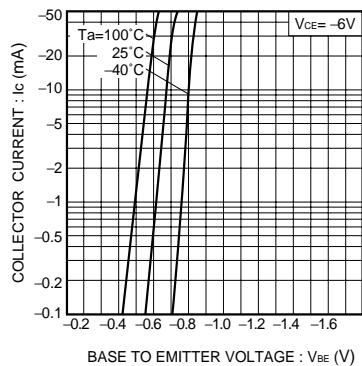
| Parameter | Symbol | Limits | Unit |
|-----------------------------|-----------|-------------|------|
| Collector-base voltage | V_{CBO} | -50 | V |
| Collector-emitter voltage | V_{CEO} | -40 | V |
| Emitter-base voltage | V_{EBO} | -5 | V |
| Collector current | I_C | -0.2 | A |
| Collector power dissipation | P_C | 0.2 | W |
| Junction temperature | T_J | 150 | °C |
| Storage temperature | T_{STG} | -55 to +150 | °C |

●Electrical characteristics ($T_a=25^\circ C$)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|--------------------------------------|---------------|------|------|------|---------|--|
| Collector-base breakdown voltage | BV_{CBO} | -50 | — | — | V | $I_C = -10\mu A$ ($T_a = -40^\circ C$ to $+125^\circ C$) |
| Collector-emitter breakdown voltage | BV_{CEO} | -40 | — | — | V | $I_C = -1mA$ ($T_a = -40^\circ C$ to $+125^\circ C$) |
| Collector cutoff current | I_{CBO} | — | — | -0.5 | μA | $V_{CB} = -30V$ ($T_a = 85^\circ C$) |
| | | — | — | -5 | | $V_{CB} = -30V$ ($T_a = 125^\circ C$) |
| Emitter cutoff current | I_{EBO} | — | — | -0.5 | μA | $V_{EB} = -4V$ ($T_a = 85^\circ C$) |
| | | — | — | -5 | | $V_{EB} = -4V$ ($T_a = 125^\circ C$) |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | — | — | -0.5 | V | $I_C/I_{EB} = -100mA/-10mA$ ($T_a = 85^\circ C$) |
| | | — | — | -0.7 | | $I_C/I_{EB} = -100mA/-10mA$ ($T_a = 125^\circ C$) |
| DC current transfer ratio | h_{FE1} | 100 | — | — | — | $V_{CE}/I_C = -5V/-1mA$ ($T_a = -40^\circ C$ to $+25^\circ C$) |
| | | — | — | 800 | | $V_{CE}/I_C = -5V/-1mA$ ($T_a = 85^\circ C$) |
| | | — | — | 1000 | | $V_{CE}/I_C = -5V/-1mA$ ($T_a = 125^\circ C$) |
| DC current transfer ratio | h_{FE2} | 100 | — | — | — | $V_{CE}/I_C = -5V/-100mA$ ($T_a = -40^\circ C$ to $+25^\circ C$) |
| Transition frequency | f_T | — | 140 | — | MHz | $V_{CE} = -12V$, $I_C = -2mA$, $f = 100MHz$ ($T_a = 25^\circ C$) |
| Collector output capacitance | C_{OB} | — | 3.5 | — | pF | $V_{CB} = -12V$, $I_C = 0A$, $f = 1MHz$ ($T_a = 25^\circ C$) |
| Emitter input capacitance | C_{IB} | — | 17 | — | pF | $V_{EB} = -0.5V$, $I_C = 0A$, $f = 1MHz$ ($T_a = 25^\circ C$) |

Transistors

●Electrical characteristic curves



Appendix

Notes

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