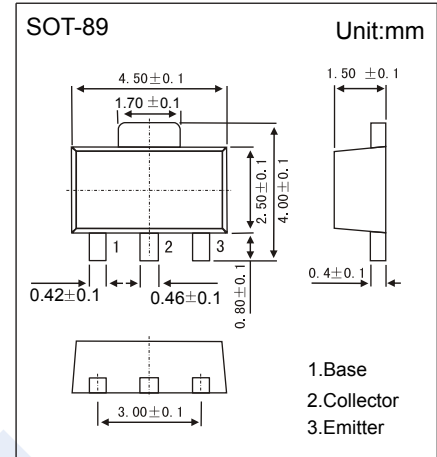


NPN Transistors

2SC3651

■ Features

- Collector Current Capability $I_C=0.2A$
- Collector Emitter Voltage $V_{CE0}=100V$



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

| Parameter | Symbol | Rating | Unit |
|-----------------------------------------|-----------|------------|------------|
| Collector - Base Voltage | V_{CB0} | 120 | V |
| Collector - Emitter Voltage | V_{CE0} | 100 | |
| Emitter - Base Voltage | V_{EB0} | 15 | |
| Collector Current - Continuous | I_C | 0.2 | A |
| Collector Current - Pulse | I_{CP} | 0.3 | |
| Collector Power Dissipation (Note.1) | P_C | 0.5 | W |
| | | 1.3 | |
| Junction Temperature | T_J | 150 | $^\circ C$ |
| Storage Temperature Range | T_{stg} | -55 to 150 | |

Note.1 : Mounted on ceramic substrate of 250mm²X0.8mm

■ Electrical Characteristics $T_a = 25^\circ C$

| Parameter | Symbol | Test Conditions | Min | Typ | Max | Unit |
|--------------------------------------|---------------|----------------------------|-----|-----|------|---------|
| Collector- base breakdown voltage | V_{CB0} | $I_C = 100 \mu A, I_E = 0$ | 120 | | | V |
| Collector- emitter breakdown voltage | V_{CE0} | $I_C = 1 mA, I_B = 0$ | 100 | | | |
| Emitter - base breakdown voltage | V_{EB0} | $I_E = 100 \mu A, I_C = 0$ | 15 | | | |
| Collector-base cut-off current | I_{CBO} | $V_{CB} = 80 V, I_E = 0$ | | | 0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = 10V, I_C = 0$ | | | 0.1 | |
| Collector-emitter saturation voltage | $V_{CE(sat)}$ | $I_C = 100mA, I_B = 2mA$ | | | 0.5 | V |
| Base - emitter saturation voltage | $V_{BE(sat)}$ | $I_C = 100mA, I_B = 2mA$ | | | 1.2 | |
| DC current gain | h_{FE} | $V_{CE} = 5V, I_C = 10mA$ | 500 | | 2000 | |
| | | $V_{CE} = 5V, I_C = 100mA$ | 400 | | | |
| Collector output capacitance | C_{ob} | $V_{CB} = 10V, f = 1MHz$ | | 6.5 | | pF |
| Transition frequency | f_T | $V_{CE} = 10V, I_C = 10mA$ | | 150 | | MHz |

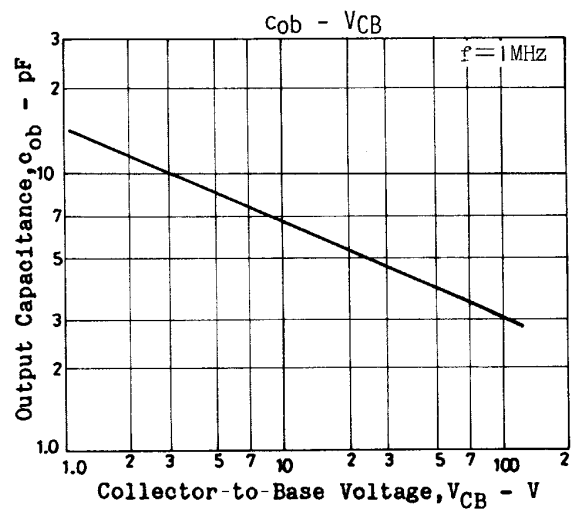
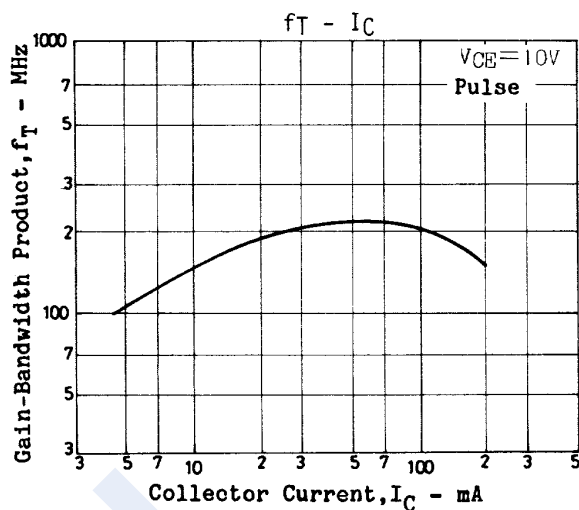
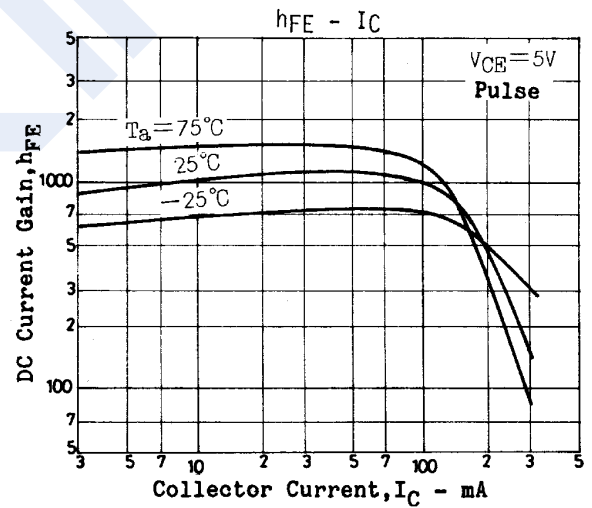
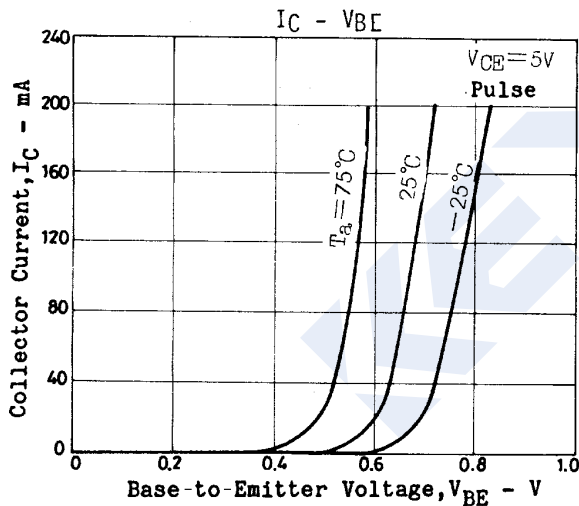
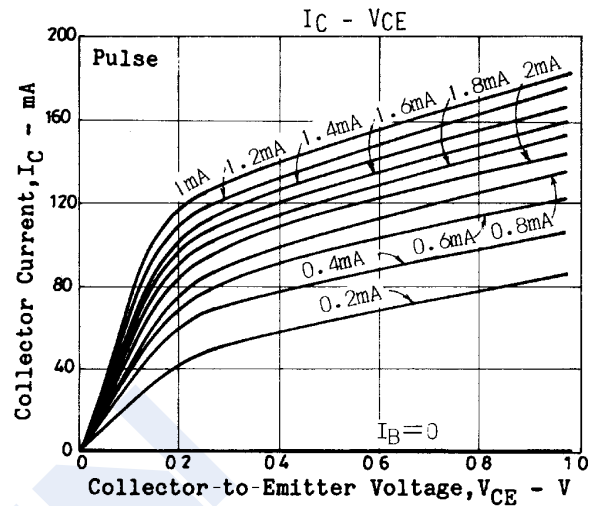
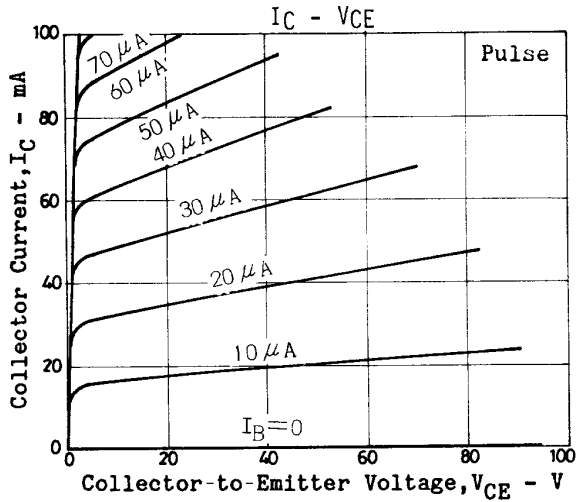
■ Marking

| | |
|---------|----|
| Marking | CG |
|---------|----|

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■ Typical Characteristics



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■ Typical Characteristics

