

PNP small signal transistor

BCX17

Small load switch transistor with high gain and Low saturation voltage.

●Features

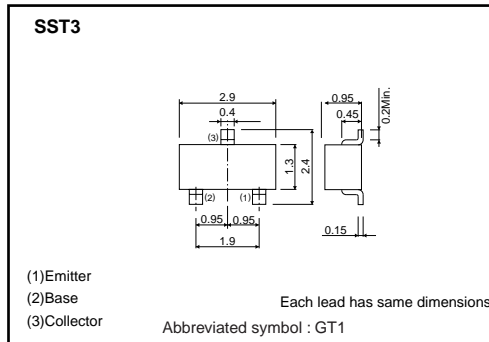
- 1) High gain and low saturation voltage.
- 2) Ideal for small load switching applications.
- 3) Complements the BCX19.

●Packaging specifications

| Type | Package | Taping |
|------|------------------------------|--------|
| | Code | T116 |
| | Basic ordering unit (pieces) | 3000 |

| | |
|-------|---|
| BCX17 | ○ |
|-------|---|

●Dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--|------------------|------------|------|
| Collector-emitter voltage (V _{BE} =0) | V _{CES} | -50 | V |
| Collector-emitter voltage (open base) | V _{CEO} | -45 | V |
| Emitter-base voltage | V _{EBO} | -5 | V |
| Collector current | I _C | -0.5 | A |
| Collector current (peak value) | I _{CM} | -1 | A |
| Collector power dissipation | P _C | 0.2 | W |
| | | 0.35 | W * |
| | | 0.425 | W *2 |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -65 to 150 | °C |

* Mounted on a 7×5×0.6 mm CERAMIC SUBSTRATE

*2 Mounted on a 15×15×0.6 mm CERAMIC SUBSTRATE

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|--------------------------------------|----------------------|------|------|-------|------|---|
| Collector-emitter breakdown voltage | BV _{CES} | -50 | - | - | V | I _C = -50μA |
| Collector-emitter breakdown voltage | BV _{CEO} | -45 | - | - | V | I _C = -10mA |
| Emitter-base breakdown voltage | BV _{EBO} | -5 | - | - | V | I _E = -50μA |
| Collector-base cutoff current | I _{CBO} | - | - | -0.1 | μA | V _{CB} = -20V |
| Emitter-base cutoff current | I _{EBO} | - | - | -10 | μA | V _{EB} = -5V |
| Collector-emitter saturation voltage | V _{CE(sat)} | - | - | -0.62 | V | I _C /I _B = -500mA/ -50mA |
| Base-emitter voltage | V _{BE(on)} | - | - | -1.2 | V | V _{CE} /I _C = -1V/ -500mA |
| DC current transfer ratio | h _{FE} | 100 | - | 600 | - | V _{CE} = -1V, I _C = -100mA |
| | | 70 | - | - | - | V _{CE} = -1V, I _C = -300mA |
| | | 40 | - | - | - | V _{CE} = -1V, I _C = -500mA |
| Transition frequency | f _T | - | 200 | - | MHz | V _{CE} = -5V, I _E = -20mA, f=100MHz |
| Collector-base cutoff current | I _{CBO} | - | - | -5 | μA | V _{CB} = -20V, Ta=150°C |

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