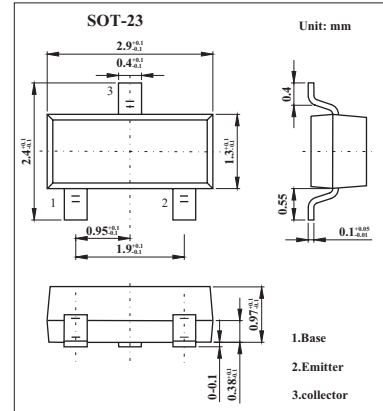


2SC3120

■ Features

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

| Parameter | Symbol | Rating | Unit |
|-----------------------------|-----------|-------------|------------------|
| Collector-base voltage | V_{CB0} | 30 | V |
| Collector-emitter voltage | V_{CE0} | 15 | V |
| Emitter-base voltage | V_{EB0} | 3 | V |
| Collector current | I_C | 50 | mA |
| Base current | I_B | 25 | mA |
| Collector power dissipation | P_C | 150 | mW |
| Junction temperature | T_j | 125 | $^\circ\text{C}$ |
| Storage temperature Range | T_{stg} | -55 to +125 | $^\circ\text{C}$ |

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|-------------------------------------|---------------|---|------|------|-----|---------------|
| Collector cut-off current | I_{CBO} | $V_{CB} = 30V, I_E = 0$ | | | 0.1 | μA |
| Emitter cut-off current | I_{EBO} | $V_{EB} = 2V, I_C = 0$ | | | 1.0 | μA |
| Collector-emitter breakdown voltage | $V_{(BR)CEO}$ | $I_C = 1\text{mA}, I_B = 0$ | 15 | | | V |
| DC current gain | h_{FE} | $V_{CE} = 10V, I_C = 5\text{mA}$ | 40 | 100 | 200 | |
| Reverse Transfer Capacitance | C_{re} | $V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$ | | 0.6 | 0.9 | pF |
| Transition Frequency | f_T | $V_{CE} = 10V, I_C = 2\text{mA}$ | 1500 | 2400 | | MHz |
| Conversion Gain | G_{ce} | $V_{CE} = 10V, I_C = 2\text{mA}, f = 800\text{MHz}$ | 12 | 17 | | dB |
| Noise Figure | NF | $F_L = 830\text{MHz}$ | | 8 | | dB |

■ Marking

| | |
|---------|----|
| Marking | HB |
|---------|----|