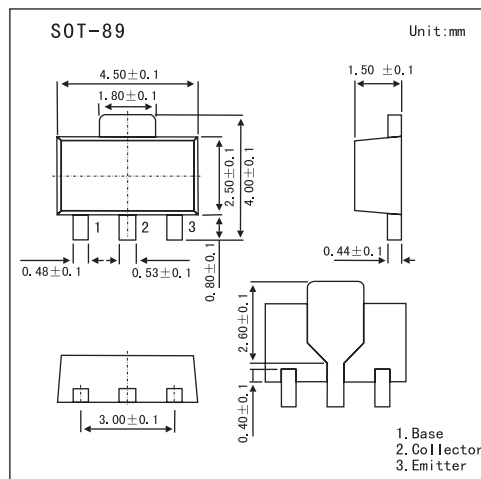


2SC3617

Features

- World standard miniature package.
- High hFE hFE=800 to 1600.



Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|----------------------------|------------------|-------------|------|
| Collector-base voltage | V _{CB0} | 50 | V |
| Collector-emitter voltage | V _{CEO} | 50 | V |
| Emitter-base voltage | V _{EB0} | 15 | V |
| Collector current | I _C | 300 | mA |
| Collector current (Pulse)* | I _{CP} | 500 | mA |
| Total power dissipation | P _T | 2.0 | W |
| Junction temperature | T _J | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

* PW ≤ 10ms, duty cycle ≤ 50%.

Electrical Characteristics Ta = 25°C

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|--|----------------------|---|-----|------|------|------|
| Collector cutoff current | I _{CB0} | V _{CB} = 50V, I _E =0 | | | 100 | nA |
| Emitter cutoff current | I _{EB0} | V _{EB} = 10V, I _C =0 | | | 100 | nA |
| DC current gain * | h _{FE} | V _{CE} = 5.0V, I _C = 100mA | 800 | | 3200 | |
| | | V _{CE} = 5.0V, I _C = 300mA | 640 | | | |
| Collector-emitter saturation voltage * | V _{CE(sat)} | I _C = 100mA, I _B = 1.0mA | | 0.12 | 0.13 | V |
| Base-emitter saturation voltage * | V _{BE(sat)} | I _C = 100mA, I _B = 1.0mA | | 0.7 | 1.2 | V |
| Gain bandwidth product | f _T | V _{CE} = 5.0V, I _E = -50mA | 150 | 220 | | MHz |
| Output capacitance | C _{ob} | V _{CB} = 10V, I _E = 0, f = 1.0MHz | | 8.0 | | pF |

*. PW ≤ 350μs, duty cycle ≤ 2%

hFE Classification

| Marking | TM | TL | TK |
|---------|----------|-----------|-----------|
| hFE | 800~1600 | 1200~2400 | 2000~3200 |