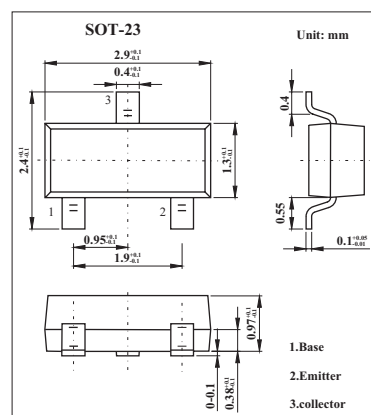


General Purpose Transistor

2SC2412

■ Features

- Low Cob.Cob=2.0pF (Typ.)



■ Absolute Maximum Ratings Ta = 25°C

| Parameter | Symbol | Rating | Unit |
|-----------------------------|------------------|-------------|------|
| Collector-base voltage | V _{CB0} | 60 | V |
| Collector-emitter voltage | V _{CEO} | 50 | V |
| Emitter-base voltage | V _{EBO} | 7 | V |
| Collector current | I _C | 0.15 | 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 Ta = 25°C

| Parameter | Symbol | Testconditions | Min | Typ | Max | Unit |
|--------------------------------------|----------------------|--|-----|-----|-----|------|
| Collector-base breakdown voltage | V _{CB0} | I _C =50μA | 60 | | | V |
| Collector-emitter breakdown voltage | V _{CEO} | I _C =1mA | 50 | | | V |
| Emitter-base breakdown voltage | V _{EBO} | I _E =50μA | 7 | | | V |
| Collector cutoff current | I _{CB0} | V _{CB} =60V | | | 0.1 | μA |
| Emitter cutoff current | I _{EBO} | V _{EB} =7V | | | 0.1 | μA |
| DC current Gain | h _{FE} | V _{CE} =6V, I _C =1mA | 120 | | 560 | |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C /I _B =50mA/5mA | | | 0.4 | V |
| Collector Output Capacitance | C _{ob} | V _{CE} =12V, I _E =0A, f=1MHz | | 2 | 3.5 | pF |
| Transition frequency | f _T | V _{CE} =12V, I _E =-2mA, f=100MHz | | 180 | | MHz |

■ hFE Classification

| | | | |
|---------|---------|---------|---------|
| Marking | BQ | BR | BS |
| Rank | Q | R | S |
| hFE | 120~270 | 180~390 | 270~560 |