

SMD Type

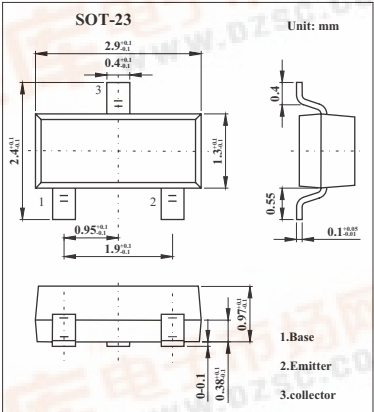
Transistors

PNP Epitaxial Planar Silicon Transistors

2SB1295

Features

- Large current capacity.
- Low collector to emitter saturation voltage.
- Very small-sized package permitting sets to be made smaller and slimer.



Absolute Maximum Ratings Ta = 25℃

| Parameter | Symbol | Rating | Unit |
|---------------------------|------------------|-------------|------|
| Collector-base voltage | V _{CB0} | -15 | V |
| Collector-emitter voltage | V _{CEO} | -15 | V |
| Emitter-base voltage | V _{EB0} | -5 | V |
| Collector current | I _C | -0.8 | A |
| Collector current (pulse) | I _{CP} | -3 | A |
| Collector dissipation | P _C | 200 | mW |
| Jumction temperature | T _j | 150 | ℃ |
| Storage temperature | T _{stg} | -55 to +150 | ℃ |

Electrical Characteristics Ta = 25℃

| Parameter | Symbol | Testconditons | Min | Typ | Max | Unit |
|--|----------------------|--|-----|------|------|------|
| Collector cutoff current | I _{CBO} | V _{CB} = -12V , I _E = 0 | | | -100 | nA |
| Emitter cutoff current | I _{EBO} | V _{EB} = -4V , I _C = 0 | | | -100 | nA |
| DC current Gain | h _{FE} | V _{CE} = -2V , I _C = -50mA | 135 | | 600 | |
| Gain bandwidth product | f _T | V _{CE} = -2V , I _C = -50mA | | 300 | | MHz |
| Output capacitance | C _{ob} | V _{CB} = -10V , f = 1MHz | | 15 | | pF |
| Collector-emitter saturation voltage | V _{CE(sat)} | I _C = -5mA , I _B = -0.5mA | | -10 | -25 | mV |
| | V _{CE(sat)} | I _C = -400mA , I _B = -20mA | | -100 | -200 | mV |
| Base-to-emitter saturation voltage | V _{BE(sat)} | I _C = -400mA , I _B = -20mA | | -0.9 | -1.2 | V |
| Collector-to-base breakdown voltage | V _{(BR)CBO} | I _C = -10μA , I _E = 0 | -15 | | | V |
| Collector-to-emitter breakdown voltage | V _{(BR)CEO} | I _C = -1mA , R _{BE} = ∞ | -15 | | | V |
| Emitter-to-base breakdown voltage | V _{(BR)EBO} | I _E = -10μA , I _C = 0 | -5 | | | V |

hFE Classification

| Marking | UL | | |
|---------|---------|---------|---------|
| Rank | 5 | 6 | 7 |
| hFE | 135~270 | 200~400 | 300~600 |

